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

DEVAL L. PATRICK
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FINAL AIR QUALITY OPERATING PERMIT

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

ISSUED TO ["the Permittee"]:

GE Aviation (GEA)
1000 Western Avenue, MD164X9
Lynn, Massachusetts 01910

INFORMATION RELIED UPON:

Application No. MBR-95-OPP-083M
Transmittal No. 105724

FACILITY LOCATION:

Same

FACILITY IDENTIFYING NUMBERS:

SSEIS ID: 1190138
FMF FAC NO.: 130691
FMF RO NO.: 51934

NATURE OF BUSINESS:

Manufacture, assembly,
and testing of turbines

STANDARD INDUSTRIAL CODE:

(SIC):3724

RESPONSIBLE OFFICIAL:

Name: Maria Deacon
Title: General Manager

FACILITY CONTACT PERSON:

Name: Daniel Montanaro
Title: Acting EHS Manager
Phone: (781) 594-2655
Fax: (781) 594-6246
E-mail:daniel.montanaro@ge.com

This Operating Permit shall expire on August 30, 2012.

For the MassDEP, Bureau of Waste Prevention

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James E. Belsky
Permit Chief

Date: August 17, 2011

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SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

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

DESCRIPTION OF FACILITY AND OPERATIONS

GEA was formerly known as GE Aircraft Engines (GEAE) and may be referred to as such in the existing applicable requirements cited in this Operating Permit. GEA is subject to and shall comply with all applicable requirements in this Operating Permit that refer to GEAE. The principal activities conducted at this site are: design, manufacture, testing and assembly of commercial and military aviation engines and naval propulsion equipment, including turbines, gears and gear sets, turbine and gear components, and other associated equipment; research and development related to the above products and services. Emission limitations in this Title V permit have exempted Boiler No. 3 from the Regional Haze Best Available Retrofit Technology (BART) requirements.

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(S)	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE
EU99-1	Foster Wheeler Boiler Model No. 8B-1652	198.75 MMBtu per hour	None
EU99-2	Foster Wheeler Boiler Model No. B-4482	195 MMBtu per hour	None
EU99-3	Babcock & Wilcox Boiler Model No.PPL-2897	382.8 MMBtu per hour	None
EU99-5	Foster Wheeler Boiler Model No. AVC-5F-5A-20	249 MMBtu per hour	None
EU99-8	General Electric Combustion Gas Turbine G5301	270 MMBtu per hour	None
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,	(17) Gas Turbine Test Cells	NA	None

Table 1			
EU#	DESCRIPTION OF EMISSION UNIT(S)	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE
EU200 Series(201-204)*			
EU32-18	Paint Gun Cleaner (Aerospace NESHAP)	NA	None
Group 1 – Handwipe Cleaning of Aerospace Components	Multiple Work Bench Stations	NA	None
Group 2 – Non-Aerospace NESHAP Cold Cleaner Degreasers	(30) Cold Cleaning Degreasers	NA	None
Group 3 - Aerospace NESHAP Cold Cleaner Degreasers	(3) Cold Cleaning Degreasers	NA	None
Group 4 – Washers Flush Cleaning of Aerospace Components	(62) Washers	NA	None
Group 5 – General Flush Cleaning of Aerospace Components	Miscellaneous Cleaners	NA	None
EUU-F57A	Fixed Roof Gasoline Fuel Tank	10,000 Gallons	Vapor Balance System (Stage I and Stage II Vapor Control System)
EU29-10,EU29-11,EU29-12	(3) Air Heaters	6.8 MMBtu per hour for each unit	None
EU29-13	Air Heater	7.1 MMBtu per hour	None
EU29-2HTR	Air Heater	7.48 MMBtu per hour	None
EU29-5HTR	Air Heater	7.48 MMBtu per hour	None
EU70-5	Air Heater	4.8 MMBtu per hour	None
EU99-10	Standby Engine	3.3 MMBtu per hour	None
EUGP8-RTC	Robotic Thermal Coating Process	18 pounds per hour	Particulate Dust Collector
EUGP8-RSC	Robotic Spray Coating Process	1.224 gallons per hour	Particulate Filter
EU81-CLEAN	Flush & Hand-wipe Cleaning of Aerospace Components in Building 81	NA	None

* Comprised of Test Cell Nos. 201, 202, 203 and 204

Legend to Abbreviated Terms within Table 1:

EU# = Emission Unit Number
MMBTU = million British Thermal Units
NESHAP = National Emission Standards for Hazardous Air Pollutants
NA = Not Applicable
VOL =Volatile Organic Liquid
m^3 =cubic meters

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following activities (Table 2) are considered 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 exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Northeast 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
EU99-1, EU99-2	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	NO_x	≤ 0.30 lb/MMBtu[1,2,3]	NA	310 CMR 7.19(4)(a)4.a. MBR-94-COM-008
EU99-3	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	NO_x	≤ 0.28 lb/MMBtu[1,3]	NA	310 CMR 7.19(4)(a)3.b. MBR-94-COM-008
			See Special Term and Conditions B. and C., Section 5		310 CMR 7.28 (Approval No. MBR-01-728-009)
EU99-1, EU99-2, EU99-3	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	CO	≤ 200 ppm by volume, dry basis at 3% O_2 [1,3]	NA	310 CMR 7.19(4)(f) MBR-94-COM-008
		PM	≤ 0.12 lb/MMBtu	NA	310 CMR 7.02(8)(d) Tables 3,4
	Primary: Natural Gas	NO_x	≤ 0.10 lb/MMBtu[2, 5]	NA	MBR-97-COM-016 40 CFR 60.44b(a)

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU99-5	Secondary: Residual Fuel Oil ≤ 1 % S by weight	NO_x	≤ 0.30 lb/MMBtu[2, 5]	NA	
	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	PM	≤ 0.10 lb/MMBtu	NA	MBR-97-COM-016 310 CMR 7.02(8)(h) Table 6
EU99-3	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	NO_x	50 tons per month 249 tons/12 MRP	NA	MBR-94-COM-008[12]
		SO_2	60 tons per month 249 tons/12 MRP		
EU99-1, EU99-2, EU99-3, EU99-5	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	NO_x	50 tons per month 383 tons/12 MRP	NA	MBR-97-COM-016
		SO_2	≤ 1.2 lbs/MMBtu[4] 150 tons per month 1636 tons/12 MRP	NA	310 CMR 7.22(1) MBR-97-COM-016
		S in Fuel	≤ 0.55 lb/MMBtu	NA	310 CMR 7.05(1)(a) Table 1
	Primary: Natural Gas Secondary: Residual Fuel Oil ≤ 1 % S by weight	NA	NA	3.9 trillion BTU Annual Heat Energy Consumption	MBR-97-COM-016
		Opacity	≤ 15% opacity based on a six-minute block average.[8]	Except as provided in 310 CMR 7.06(1)(c)1.b.; 310 CMR 7.06(1)(c)1.c.; 310 CMR 7.06(1)(c)1.g.	310 CMR 7.06(1)(c)1.a.
			≤ 27% during startup, shutdown, burner change out, load ramping/load shifting, fuel switching, and soot blowing, based on a six-minute block average. [8]	Except for up to two six-minute block averages[8] during each calendar quarter.	310 CMR 7.06(1)(c)1.b.

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU99-1, EU99-2, EU99-3, EU99-5		Opacity	≤ 27% during startup, shutdown, burner change out, load ramping/load shifting, fuel switching, and soot blowing, based on a six-minute block average. [8]	Except for one-tenth of one percent (0.1%) of the total six-minute block averages[8] during any calendar quarter, or six block averages per boiler per quarter, whichever is greater, provided visible emissions do not exceed 60% during any six-minute block average[8,9]. At no time can visible emissions exceed 27% opacity for more than two six-minute block averages[8] during a one-hour period and the one-hour block average opacity shall not exceed 27% opacity during the one-hour block period when a six-minute block average[8] exceeds 27% opacity[9].	310 CMR 7.06(1)(c)1.c.
			≤ 27% during shakedown activities, testing and calibrations for the purpose of improving boiler performance	When notified in writing at least five business days prior to scheduled events, the MassDEP may allow exemptions to 310 CMR 7.06(1)(c)1.a.; 310 CMR 7.06(1)(c)1.b.and 310 CMR 7.06(1)(c)1.c.	310 CMR 7.06(1)(c)1.g.
EU99-8	Primary: Natural Gas	NO_x	42 ppm by volume, dry basis at 15% O_2[3,5]	NA	MBR-94-COM-008 310 CMR 7.19(7)
	Secondary: Distillate Fuel Oil ≤ 0.3 % S by weight	NO_x	65 ppm by volume, dry basis at 15% O_2[3,5]		MBR-94-COM-008 310 CMR 7.19(7)
	Secondary: Distillate Fuel Oil ≤ 0.3 % S by weight	NO_x	See Special Term and Conditions B. and C., Section 5[6]		310 CMR 7.28[6] (Approval No. MBR-01-728-009)
	All Fuels	CO	50 ppm by volume, dry basis at 15% O_2[3,5]		MBR-94-COM-008 310 CMR 7.19(7)
		PM	≤ 0.12 lb/MMBtu		310 CMR 7.02(8)(d) Tables 3,4(state only)
	Distillate Fuel Oil ≤ 0.3 % S by weight	S in Fuel	≤ 0.17 lbs/MMBtu		310 CMR 7.05(1)(a)2.

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU99-8		SO_2	$\leq$ 1.2 lbs/MMBtu[4]	NA	310 CMR 7.22(1)
EU1,EU2,EU3, EU4,EU5, EU34N,EU109 ,EU110,EU111 ,EU114,EU115 ,EU116,EU120 ,EU121,EU122 ,EU123, EU200 Series (201-204)	Primary: JP4, JP5, JP8 Jet Fuel Oil or other fuels Secondary: No. 2 Diesel Fuel Oil $\leq$ 0.3 % S by weight	NO_x	637 tons/365 DRCP	NA	MBR-93-COM-021
EU114, EU115	Primary: JP4, JP5, JP8 Jet Fuel Oil or other aviation fuels Secondary: No. 2 Diesel Fuel Oil $\leq$ 0.3 % S by weight	NO_x	532 tons/365 DRCP	110,000 pounds of fuel per hour combined See Table 4 for 3-hr fuel use limit and calendar day limit	MBR-98-COM-017/ MBR-92-COM-019
		VOC	43 tons/365 DRCP		MBR-98-COM-017/ MBR-92-COM-019
EU2,EU5	Natural Gas, biofuel or Jet Fuel (naptha, kerosene-based distillate fuel, Jet A, JP-4, JP-5, JP-8 or other aviation fuel) <0.3%S by weight	NO_x	99.20 lbs/hr[10]	Maximum fuel firing rate: 3,100 lbs/hr per engine per test cell when engine is operating at maximum power[10]	MBR-07-COM-004B
			67.20 tons/month 157.0 tons/12-month rolling period		MBR-07-COM-004B 048-119-MA09
		CO	16.34 lbs/hr[10] 11.10 tons/month 16.0 tons/12-month rolling period	Maximum fuel firing rate: 3,100 lbs/hr per engine per test cell when engine is operating at maximum power[10]	MBR-07-COM-004B
		VOC	2.80 lbs/hr[10] 2.0 tons/month 2.0 tons/12-month rolling period		
		SO2	18.60 lbs/hr[10] 12.60 tons/month 35.0 tons/12-month rolling period		
		PM/PM10	0.21 lbs/hr[10] 1.0 tons/month 4.0 tons/12-month rolling period		
	NA	Noise	<10dba at property line & no pure tones[11]	NA	MBR-07-COM-004B
EU29-10, EU29-11, EU29-12, EU29-13, EU70-5,	Natural Gas	PM	$\leq$0.10 lbs/MMBtu	NA	310 CMR 7.02(8)(h) Tables 3,6
EU29-2HTR EU29-5HTR	Natural Gas	NO_x	0.099 lbs/MMBtu	NA	MBR-07-COM-004B
		CO	0.083 lbs/MMBtu		

Table 3

EU#	FUEL/RAW MATERIALS	POLLUTANT	EMISSION LIMIT/STANDARD	RESTRICTIONS	APPLICABLE REGULATION AND/OR APPROVAL NUMBER
EU29-2HTR EU29-5HTR	Natural Gas	VOC	0.005 lbs/MMBtu	NA	MBR-07-COM-004B
		SO2	0.0006 lbs/MMBtu		
		PM/PM10	0.008 lbs/MMBtu		
EU99-10	No. 2 Diesel Fuel Oil ≤ 0.3 % S by weight	S in Fuel	≤ 0.17 lbs/MMBtu	NA	310 CMR 7.05(1)(a)2.
				No more than 300 hours per any rolling 12-month period	310 CMR 7.02(8)(i)2.
EUGP8-RTC, EUGP8-RSC	NA	VOC	2.4 tons/month 4.9 tons/12-month rolling calendar period	NA	MBR-06-IND-028
		PM	0.4 tons/month 1.0 tons/12-month rolling calendar period		
	All Materials	Opacity, exclusive of uncombined water	Shall not exceed 10%	At all times during all modes of operation, including startups and shutdowns	
EU81-CLEAN	Cleaning Solvent	VOC	1.4 tons/month 2.70 tons/12-month rolling calendar period		MBR-08-IND-008
		Opacity, exclusive of uncombined water	Shall not exceed 10%	At all times during all modes of operation, including startups and shutdowns	
Facility-Wide (except EU99-1, EU99-2, EU99-3, EU99-5, EUGP8-RTC, EUGP8-RSC	All Fuels	Smoke	< No. 1 of Chart[7], except No. 1 to < No. 2 of Chart for ≤ 6 minutes during any one hour	NA	310 CMR 7.06(1)(a)
		Opacity	< 20 percent, except 20 to < 40 percent for ≤ 2 minutes during any one hour		310 CMR 7.06(1)(b)

Table 3 Notes:

1. Compliance with emission limit(s)/standard(s) shall be based on a calendar day average.
2. NO_x emission limit is for boilers having a heat release rate of less than or equal to 70,000 BTU/hour-ft^3.

3. In accordance with MBR-94-COM-008 Proviso No. I.4. and II.3., these emission limits shall not apply during periods of start-up, shutdown, and other exclusion periods as specified in MassDEP approved Standard Operating Plan.

4. Compliance with 310 CMR 7.05 for sulfur limit of Nos. 2 & 6 Fuel Oil shall be deemed compliance with SO_2 limit under the Massachusetts Acid Rain Law 310 CMR 7.22. 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.

5. Compliance with emission limit(s)/standard(s) shall be based on a 30-day rolling average basis.

6. Please note that EU99-8 is referred to as Unit ID# 5 in the 310 CMR 7.28 NO_x Allowance Trading Program ECP dated October 9, 2002.

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

8. The one-hour average shall be based on a clock hour.

9. Except for any periods allowed under 310 CMR 7.06(1)(c)1.b.

10. Based on a 1-hour block average.

11. (State-only requirement) MassDEP Noise Policy 90-001 limits increases over the existing L90 background level to 10 dBA at the property line. Additionally, “pure tone” sounds, defined as any octave band level that exceeds the levels in adjacent octave bands by 3 dBA or more at the property line, are also prohibited. GE, at a minimum, shall ensure that the modified facility complies with said Policy (MBR-07-COM-004B, Condition VI.3).

12. Limits imposed to “cap” out of definition of “Best Available Retrofit Technology (BART) – eligible source” (40 CFR 51.301).

Table 3 Key:

EU# = Emission Unit Number
% = percent
lb/MMBtu = pounds per million British Thermal Units
ppm = parts per million
gr/dscf = grains per dry standard cubic foot
< = less than
≤ = less than or equal to
NA = Not Applicable
MRP = 12-month rolling period.
DRCP = 365-day rolling calendar period.
S = sulfur, SO_2 = sulfur dioxide, NO_x = nitrogen oxides, CO = carbon monoxide, PM = particulate matter, VOC = volatile organic compounds, O_2 = oxygen.
No. = Number

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
EU99-1,EU99-2,EU99-3,EU99-5,EU99-8,EU99-10	Pursuant to the MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor sulfur content of each new shipment of fuel(s) received (except natural gas). Compliance with 310 CMR 7.05(1)(a)1. and (1)(a)2. for sulfur content of the fuel can be demonstrated through fuel analysis. Vendor fuel sulfur data obtained in compliance with 310 CMR 7.05(1)(a)1. and (1)(a)2. can be used to demonstrate compliance with the SO_2 limits specified in Approval MBR-97-COM-016, in lieu of conducting quarterly on-site tank sampling. 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 the MassDEP and the United States Environmental Protection Agency (EPA). Fuel sulfur information may be provided by fuel suppliers.
EU99-8	In accordance with 310 CMR 7.06(1)(a), shall not cause, suffer, allow, or permit the emission of smoke which has a shade, density, or appearance equal to or greater than No. 1 of the Chart for a period, or aggregate period of time in excess of six minutes during any one hour, provided that at no time during the said six minutes shall the shade, density, or appearance be equal to or greater than No. 2 of the Chart. In accordance with 310 CMR 7.06(1)(b), shall not cause, suffer, allow, or permit the operation of a facility so as to emit contaminant(s), exclusive of uncombined water or smoke subject to 310 CMR 7.06(1)(a) of such opacity which, in the opinion of the MassDEP, could be reasonably controlled through the application of modern technology of control and a good Standard Operating Procedure, and in no case, shall exceed 20% opacity for a period or aggregate period of time in excess of two minutes during any one hour provided that, at no time during the said two minutes shall the opacity exceed 40%.
EU99-1,EU99-2,EU99-3,EU99-5, EU99-8	In accordance with 310 CMR 7.04(2), shall maintain, and operate a continuous monitoring system and associated data recorder for measuring and recording the opacity of emissions discharged to the atmosphere. The smoke density sensing instrument and recorder shall be maintained in an accurate operating condition 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. Such smoke density equipment shall be available for inspection at reasonable times by a representative of MassDEP. EU99-8 opacity shall be monitored using a smoke sensor in accordance with 310 CMR 7.04(2) when operating either the Bypass Stack or the Main Stack.
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, as a minimum, calibrate the smoke density indicator system at least annually in accordance with the manufacturer’s recommended procedures.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, the smoke density indicator, audible alarm and recorder system is used as an indicator to initiate corrective actions if the opacity level is in excess of the expected level, as defined in the Plan of Good Operating Practices, for: normal operation, startup, shutdown, burner change out, load ramping/load shifting, fuel switching, testing/optimization or soot blowing.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, the facility should operate the boilers in accordance with the Plan of Good Operating Practices. Exceptions taken per 310 CMR 7.06(1)(c)1.b or c shall be tallied. If more than the two allowable exceptions per 310 CMR 7.06(1)(c)1.b. for a particular boiler should occur within a calendar quarter, then at the third occurrence of opacity above 60% for any allowed special operating condition during the quarter, a Method 9 test shall be conducted on that boiler at the next scheduled special operating condition of the type that resulted in the highest of the three opacity readings over 60% during the quarter. If it is not practical to complete Method 9 testing for the applicable special condition during the next scheduled event, the Permitee may request an alternative test schedule. In addition, based upon the cause of the excursion, the Permitee may request a waiver of the Method 9 test requirement. Any request shall be in writing to the MassDEP. If more than the allowable exceptions per 310 CMR 7.06(1)(c)1.c. for a particular boiler should occur within a calendar quarter, then during the next calendar quarter, at the next scheduled event of the predominant special operating condition that caused the excess exception, a Method 9 test shall be conducted on that boiler, and the Plan of Good Operating Practices should be revised, if appropriate. If it is not practical to complete Method 9 testing for the applicable special condition during the next quarter, the Permitee may request an alternative test schedule. In addition, based upon the cause of the excursion, the Permitee may request a waiver of the Method 9 test requirement. Any request shall be in writing to the MassDEP.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, in the event a smoke density indicator and recorder is out-of-service for more than two business days while a boiler is operating and firing oil, then a Method 9 Test shall be conducted at least once per day during normal operations and once per day during any scheduled soot blowing, startup, and/or shutdown events until the day that the smoke density indicator and recorder is placed back in service.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with 310 CMR 7.06(1)(c), and the Plan of Good Operating Practices, the opacity levels during normal operation, soot blowing, burner change out, load ramping/load shifting, fuel switching, startup and shutdown, as applicable, shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 at least once every twelve calendar months, based upon each boilers prior year operations and opacity emissions performance. If none of the specified opacity emission exceptions occurred requiring a Method 9 in accordance with 310 CMR 7.06(1)(c)1.b. or 1.c., on any boiler during a calendar year, then conduct at least one Method 9 during normal operation for that boiler. If a specified exception occurred in accordance with 310 CMR 7.06(1)(c)1.b. or 1.c., and, as a result a Method 9 was conducted on a specified boiler, that Method 9 shall count as the minimum annual Method 9 observation for that boiler.
	In accordance with 310 CMR 7.06(1)(c), and the Plan of Good Operating Practices, compliance with visible emission limits shall be based upon a six-minute average determined by the procedures set forth in Method 9, (as described in 40 CFR Part 60, Appendix A-4) per 310 CMR 7.06(1)(c)1.d.i. Continuous opacity monitors shall serve as indicator monitors.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), compliance with SO_2 limits shall be determined based on fuel analysis, fuel consumption records, the logging of fuel type and the monitoring of fuel use via recording of fuel meter data.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), monitor on a quarterly basis the sulfur content of fuel oil used by obtaining one homogeneous sample every calendar quarter from each active fuel storage tank from which fuel oil was taken for use during that quarter and have the sample analyzed for sulfur content pursuant to American Society of Testing Materials (ASTM) D2622- Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry or equivalent method. In addition, in lieu of quarterly fuel oil sampling and analysis for sulfur content, compliance with this requirement can be demonstrated by vendor fuel sulfur data obtained in compliance with 310 CMR 7.05(1)(a)1 and (1)(a)(2).
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), monitor/calculate and track the 12 month rolling totals for energy consumption and NO_x and SO_2 emissions based on each type of fuel use. This data, including a sample NO_x and SO_2 emission calculation shall be summarized in a spreadsheet format.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(4), ensure that the NO_x and O_2 CEMS operate at all times the emission units are operating, except for periods of CEMS calibration checks, zero and span adjustments, preventive maintenance, and periods of unavoidable malfunctions. In any event obtain and record emission data for each CEM for at least 90 percent of the emission unit operating hours per quarter.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No. D.(3), monitor all environmental information associated with environmental issues at the facility, related to 310 CMR 7.00 and the equipment covered by this Approval, in an Environmental Logbook, or equivalent recordkeeping system. The Permittee shall monitor information such as the results of federal, state, or local environmental inspections; and maintenance or corrective actions related to air pollution control equipment.
EU99-3,EU99-8	In accordance with 310 CMR 7.28(11)(a)(4), all monitoring systems are subject to initial performance testing and periodic calibration, accuracy testing and quality assurance/quality control testing as specified in 40 CFR Part 75 Subpart H.
	As required by 310 CMR 7.28(11)(a)(5), during a period when valid data is not being recorded by a monitoring system approved under 310 CMR 7.28, the missing or invalid data must be replaced with default data in accordance with the provisions of 40 CFR 75.70(f). The applicable missing data procedures are specified in 40 CFR Part 75 for NO_x emission rate (in lb/MMBtu*), heat input, stack gas volumetric flow rate, oil density, GCV** or fuel flow rate. *lb/MMBtu = pounds per million British thermal units **GCV = gross calorific value
	In accordance with 310 CMR 7.28(11)(a)(6), NOx emissions data must be reported to the NOx Emissions Tracking System (NETS) in accordance with 310 CMR 7.28(13).
	In accordance with 310 CMR 7.28(11)(a)(7), budget units must report data pursuant to the requirements of 310 CMR 7.28(11) for every hour.
	In accordance with 310 CMR 7.28(11)(b), any person who owns, leases, operates or controls a budget unit subject to 310 CMR 7.28 must comply with the notification requirements in 40 CFR 75.61, where applicable.
	Existing units that have completed the certification test requirements under 310 CMR 7.28 must meet all ongoing Quality Assurance (QA) testing requirements referenced in 40 CFR Part 75, Subpart H.
EU99-1,EU99-2,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No.C.(7), comply with quality assurance requirements provided in 40 CFR Part 60 Appendix F. For EU99-5, 40 CFR 75 Appendix B timelines may be followed for conducting CEMS QA CGA and RATA audit testing under both Approval MBR-97-COM-016 and NSPS, Subpart Db, consistent with the November 2005 EPA Petition Approval for EU99-5.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-1,EU99-2,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No.C.(5)b.,regarding calculation of the annual NO_x cap, if CEM data is missing the following process shall be used. For CEM downtime less than 8.0 hours, the NO_x emission rate shall be calculated by averaging the emission rate from the hour before and the hour after any CEM downtime. For downtimes equal to or greater than 8.0 hours, the following NO_x emission rates shall be used: Boiler Nos. 1 and 2: 0.3 pounds per MMBTU; Boiler No. 5: 0.1 pounds per MMBTU (when combusting natural gas) 0.3 pounds per MMBTU (when combusting residual oil) For Boiler No. 3 missing data procedures are established in 310 CMR 7.28.
EU99-1,EU99-2	In accordance with Approval MBR-94-COM-008,Proviso IV.1., demonstrate compliance with the CO and NO_x emission standards by the use of a continuous emissions monitoring system (CEMS) for each unit. All CEMS shall comply with Regulation 310 CMR 7.19(13)(b).
EU99-3,EU99-8	In accordance with Approval MBR-94-COM-008,Proviso IV.1., demonstrate compliance with the CO and NO_x emission standards by the use of a continuous emissions monitoring system (CEMS) for each unit. All CEMS shall comply with Regulation 310 CMR 7.19(13)(b), which allows quality assurance activities for NO_x and O_2 (associated diluent) to be performed in accordance with 40 CFR 75 Appendix B provisions for units that are subject to the NO_x Allowance Program (310 CMR 7.28). In addition, it shall also be acceptable to follow 40 CFR 75 Appendix B quality assurance timelines in the conducting of quality assurance activities for CO (i.e. in performing quarterly Linearity/Cylinder Gas Audits and RATAs).
EU99-1,EU99-2,EU99-3,EU99-8	In accordance with Approval MBR-94-COM-008, Proviso No. IV.2., follow the operating, monitoring, and testing procedures contained in the MassDEP approved Standard Operating Plan.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-1,EU99-2,EU99-3,EU99-8	In accordance with 310 CMR 7.19(13)(d), and Approval MBR-94-COM-008, Proviso V,1. a., b. and c. monitor the following: a. maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each continuous emission monitor; b. any excess emissions as measured by a CEMS within the previous calendar quarter (January-March, April-June, July-September, and October-December) which shall include: 1) the date and time of commencement and completion of each period of excess emissions and the magnitude of the excess emissions for each hour; 2) identification of the suspected reason for the excess emissions and any corrective action taken; 3) the date and time that any CEMS stopped collecting valid data and when it started to collect valid data again, except for zero and span checks; and 4) the nature and date of system repairs; In the event none of the above items have occurred such information shall be stated in the report; c. monitor for each unit on a daily basis: type fuel(s) burned each day, heat content of each fuel (measured heat content values from the fuel supplier), the total heating value of the fuel consumed for each day, the actual NO_x and CO emission rates (for emissions units demonstrating compliance with continuous emissions monitoring systems), and the allowable NO_x and CO emission rates;
EU99-1,EU99-2,EU99-3	In accordance with 310 CMR 7.19(13)(d), and Approval MBR-94-COM-008, Proviso V, 1. d. monitor the following: d. obtain a certification from the fuel oil supplier for each new shipment of residual oil fuel that includes the following information: 1) the name of the oil supplier; 2) the nitrogen content of each oil shipment (acceptable test methods for determining nitrogen content of the fuel oil are ASTM methods D3228 and D4629 or any other method approved by MassDEP and EPA); 3) the location where the sample was drawn for analysis to determine the nitrogen content of the oil, specifically including whether the fuel oil was sampled as delivered to the affected facility or whether the sample was drawn from fuel oil in storage at the oil supplier's or oil refiner's facility or another location. Alternatively, GEAE may elect to sample and analyze the residual oil immediately after the fuel tank is filled and before any oil is combusted for each new shipment according to methods approved by the MassDEP;

Table 4

EU#	MONITORING/TESTING REQUIREMENTS
EU99-3	In accordance with Approval MBR-94-COM- 008, Proviso V.2, demonstrate compliance with Table 2 NO_x and SO_2 emission caps by tracking emissions using the following formulas: a) Tons of SO_2emitted = [0.0006 lbs. SO_2 /Mcf of NG x Mcf of NG + (0.157 x wt% S) lbs./gal x gal #6 fuel oil]/ 2000 lbs./ton b) Tons of NO_x emitted = [NO_x lbs. (NG) + NO_x lbs. (#6 fuel oil)]/2000 lbs. /ton c) NO_x lbs. (NG) = 1.194 x 10^{-7} (lb/dscf)/ppmvd x 8710 dscf/MMBtu x NO_x ppmvd x 20.9/ (20.9-O_{2d}%) x Measured Fuel Heat Content (MMBtu/100scf) x Fuel Flow Rate (100 scfh) x hours of NG firing d) NO_x lbs. (#6 fuel oil) = 1.194 x 10^{-7} (lb/dscf)/ppmvd x 9190 dscf/MMBtu x NO_x ppmvd x 20.9/(20.9-O_{2d}%) x Measured Fuel Heat Content (MMBtu/100gal) x Fuel Flow Rate (gal/hr) x hours of #6 fuel oil firing Where: lbs. = pounds Mcf = thousand cubic feet NG = natural gas wt% = weight percent S = Sulfur gal = gallon(s) ppmvd = parts per million measured on a dry basis O_{2d}% = oxygen in percent measured on a dry basis MMBtu = million British Thermal Units dscf = dry standard cubic feet scf = standard cubic feet scfh = standard cubic feet per hour Hr. = Hour Note: The NO_x ppmvd data shall be taken from Continuous Emission Monitoring System (CEMS) which GEA use 40 CFR 75 monitoring procedures. For any hour that valid measurement data is missing, Boiler No. 3 NO_x emission rate substitution values shall be determined in accordance with 40 CFR 75 procedures.
EU99-5	In accordance with 40 CFR 60.44b(h)and(i) and Approval MBR-97-COM-016, Proviso No.C. (8), the NO_x standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NO_x emission limits is determined on a 30-day rolling average basis.
	In accordance with 40 CFR 60.46b(e)(2), determine compliance with the NO_x emission standards under Section 60.44b on a continuous basis through the use of a 30-day rolling average emission rate. A new 30-day rolling average emission rate is calculated each steam generating unit operating day as the average of all of the hourly NO_x emission data for the preceding 30 steam generating unit operating days.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU99-5	In accordance with 40 CFR 60.48b (c),(d),(e)(2),and (f),the NO_x continuous monitoring system shall be operated and data recorded during all periods of operation except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments. The 1-hour average NO_x emission rates measured by the continuous NO_x monitor shall be expressed in nanograms per joule (ng/J) or lb/million Btu heat input and shall be used to calculate the average emission rates under Section 60.44b. The 1-hour averages shall be calculated using the data points required under Section 60.13(b). At least 2 data points must be used to calculate each 1-hour average. The procedures under Section 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. The span value for NO_x shall be 500 ppm for natural gas and oil. When NO_x emission data is not obtained because of continuous monitoring system breakdowns, repairs, calibration checks and zero and span adjustments, emission data shall be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.
	In accordance with Approval MBR-97-COM-016, Proviso No.C. (10), shall operate and maintain the opacity monitor and associated strip chart recorder with a dated strip chart. The opacity monitor and associated recorder shall function continuously and shall be maintained in a state of good repair.
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,EU200 Series (201-204)	In accordance with Approvals MBR-93-COM-021, Proviso No. C.(2), MBR-07-COM-004B, Condition VIII.1 and 048-119-MA09, Condition V.A, monitor the fuel oil for each test cell using an automated, real time parametric emissions monitoring system. The monitoring system shall consist of fuel metering equipment for each test cell. The fuel metering system samples the fuel rate at least every two seconds. Every two seconds, the fuel flow rate shall be multiplied by an emission factor (expressed in pounds of NO_x per 1000 pounds of fuel) that the system selects from a curve of emission factor versus fuel flow rates. Each engine curve was derived from engine testing data. The result of the above calculations, an instantaneous NO_x emission rate, is totaled and the data is stored to produce a consecutive 365-day total.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,EU200 Series (201-204)	In accordance with Approvals MBR-93-COM-021, Proviso No. C.(5), MBR-98-COM-017, MBR-92-COM-019, Proviso No. 8., MBR-07-COM-004B, Condition VIII.2 and 048-119-MA09, Condition V.C, the automated real-time emissions monitoring system shall be operated and shall record valid data at all times of operation of the equipment being monitored, except for periods of malfunction and quality assurance/quality control for the automated real-time emissions monitoring system. In any event, despite periods of malfunction and quality assurance/quality control, the automated real-time emissions monitoring system shall be operated and record valid data for at least 90 percent of the operating time of the equipment being monitored, over any and all calendar quarters. Compliance calculations for periods in which data is not available due to a malfunction and quality assurance/quality control shall be calculated using average fuel flow rates and normalized emission factors for the engine type being tested.
EU2, EU5	In accordance with Approval 048-119-MA09, Condition V.B, compliance with the monthly and 12-month annual NOx emission rates shall be determined by using an automated, real time parametric emissions monitoring system.
	In accordance with Approval MBR-07-COM-004B, Condition VIII.4, all periods of excess emissions at the proposed facility, even if attributable to an emergency/ malfunction, start up/shutdown or equipment cleaning, shall be quantified and included by GE in the determination of emissions and compliance with the emission limits as stated in Table 3 of this Conditional Approval. (**"Excess Emissions"** are defined as emissions, which are in excess of the short-term emissions as stipulated in Table 2.) An exceedance of emission limits in Table 2 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).
	In accordance with Approval MBR-07-COM-004B, Condition XI,1., GE shall ensure that the modified test cells shall be constructed to accommodate the emissions (compliance) testing requirements contained herein. All emissions testing shall be conducted in accordance with MassDEP 's "Guidelines for Source Emissions Testing" and in accordance with the Environmental Protection Agency reference test methods as specified in 40 CFR Part 60, Appendix A, or by another method which has been correlated to the above methods to the satisfaction of MassDEP (e.g., Aerospace Recommended Practice).
	In accordance with Approval MBR-07-COM-004B, Condition XI,5., in accordance with 310 CMR 7.13 MassDEP may require additional emissions testing of the modified test cells at any time to ascertain compliance with MassDEP 's Regulations or any proviso(s) contained in this Conditional Approval.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU2, EU5	In accordance with 048-119-MA09, Condition IV: 1. GE must obtain EPA approval of the emissions estimate protocol used to determine the NOx emissions for the GE38 engine, which is characterized as the "worst emitting engine" selected as the basis for emission limits for the modification of Test Cells 2 and 5. At a minimum, the engine test procedures shall include the representative power settings to be tested, applicable test parameters such as inlet temperature, and other information necessary for setting up the equipment for the test. The resulting emission factors for each power level from the emissions testing shall also be submitted for the GE38 engine following engine certification. 2. GE shall determine engine emission factors using Aerospace Recommended Practice Number 1256 "Procedures for the Continuous Sampling and Measurement of Gaseous Emissions from Aircraft Turbine Engine" or other testing procedures as approved by EPA.
EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 5., GEAE and its successors, heirs, and assigns shall ensure that the facility is monitored and operated according to the Final Standard Operating and Maintenance Procedures, as modified.
	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 8., maintain an automated, real time parametric emissions monitoring system for NO_x and VOC emissions in turbine engine Test Cells 114 and 115. The parametric monitoring system shall measure the fuel flow at least every two seconds. The fuel flow rate shall be multiplied by an emission factor (expressed in pounds of NO_x or VOC per 1000 pounds of fuel) that the system selects from a curve of engine specific emission factors versus fuel flow rates or other MassDEP approved parameters.
	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 10., compliance with NO_x and VOC 365-day emission limits shall be determined over any and every consecutive 365-day period through use of automated real-time emissions monitoring.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 11., schedule and monitor afterburner operating modes so as to minimize the likelihood of the simultaneous operation of two engines in any afterburner mode. The modeling analysis has shown that the simultaneous operation of two engines in maximum afterburner mode can safely occur for up to 8 consecutive hours (even though the calendar day fuel use cap would limit the simultaneous operation in maximum afterburner mode to no more than 3 hours and 53 minutes). Nevertheless, GEAE shall avoid this overlap whenever the constraints of the test program protocol permit flexibility. GEAE shall incorporate this recommendation into the Final Standard Operating Procedure for the test program.
	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 12., monitor the fuel use for Test Cell 114 and for Test Cell 115, and maintain on-site records of the hourly fuel consumption in each of these cells.
EU2, EU5, EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 13., MBR-07-COM-004B, Condition VIII.3 and 048-119-MA09, Condition V.D, shall use dual fuel meters to monitor the consumption of fuel in each test cell. These fuel meters shall be “non-resetable” and shall meet the requirements of 40 CFR Part 75, Appendix D, Paragraph 2.1.2 requiring an accuracy of 2% and annual calibrations.
EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 15., shall limit 3-hour fuel use for Test Cells 114/115 to a combined maximum of 330,000 pounds, provided that the Weighted Average Sulfur Content of the fuels utilized in Cells 114 and 115 is equal to or less than 0.11 percent by weight. If the Weighted Average Sulfur Content of the fuels utilized in Cells 114 and 115 is greater than 0.11 percent by weight, then the following equation shall be used to determine the amount of fuel that may be combusted in any 3-hour period: (SEE HARDCOPY FOR FORMULA) It should be noted that compliance with the fuel limits defined by this equation shall assure that GEAE shall not exceed the 3-hour SO_2 significant impact level and shall assure compliance with the 3-hour SO_2 ambient air quality standard.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 16., shall limit calendar day fuel use for Test Cells 114/115 to a combined maximum of 492,200 pounds, provided that the Weighted Average Sulfur Content of the fuels utilized in Cells 114 and 115 is equal to or less than 0.05 percent by weight. If the Weighted Average Sulfur Content of the fuels utilized in Cells 114 and 115 is greater than 0.05 percent by weight, then the following equation shall be used to determine the amount of fuel that may be combusted in any calendar day: (SEE HARDCOPY FOR FORMULA) It should be noted that compliance with the fuel limits defined by this equation shall assure that GEAE shall not exceed the 24-hour SO_2 significant impact level and shall assure compliance with the 24-hour SO_2 ambient air quality standard.
EU2, EU5, EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 18. and, MBR-07-COM-004B, Condition VIII.5 monitor the sulfur content of the fuel in the seven (7) fuel storage tanks serving Test Cells 2, 5, 114 and 115. Whenever a new load of fuel has been added to one of these tanks, the tank shall be taken off-line until the fuel has had a 24-hour period to homogenize. The sulfur content of the tank shall then be measured before the fuel from this tank is used by the test cells.
EU32-18	In accordance with 40 CFR 63.751(a)(Enclosed Spray Gun Cleaners), shall visually inspect the seals and all other potential sources of leaks associated with each enclosed gun spray cleaner system at least once per month. Each inspection shall occur while the system is in operation.
Group 1-Handwipe Cleaning of Aerospace Components, EU81-CLEAN	In accordance with 40 CFR 63.750(a) and (b), shall adhere to the test methods and procedures for composition determination and vapor pressure determination.
Group 2-Non- Aerospace NESHAP Cold Cleaner Degreasers, Group 3-Aerospace NESHAP Cold Cleaner Degreasers	In accordance with 310 CMR 7.18(8)(h), shall, upon request of MassDEP, perform or have performed tests to demonstrate compliance. Testing shall be conducted in accordance with a method approved by the MassDEP and EPA.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EUU-F57A	In accordance with 310 CMR 7.24(3)(f), shall: 1. monitor the vapor balance system for proper operation; and, 2. maintain records of all maintenance performed, including the type of maintenance performed and date the maintenance was performed; and, 3. maintain records of all malfunctions, including the type of malfunction, the date the malfunction was observed, and the date the malfunction was repaired; and, 4. monitor all gauges, meters, or other specified testing device to assure proper working order; and 5. momitor records of the daily throughput of any organic material with a true vapor pressure of 1.5 pounds per square inch (psia) or greater under actual storage conditions.
	In accordance with 310 CMR 7.24 (6)(a) 5., conspicuously post Stage II system operating instructions on both sides of all motor vehicle fuel dispensers which is clearly visible to the system operator during the refueling process. Such instructions shall include: a clear pictorial or written description of how to correctly dispense motor vehicle fuel using a Stage II system; a warning not to continue dispensing motor vehicle fuel (“topping off”) after automatic system shutoff has engaged; and the telephone number of MassDEP’s Stage II Consumer Hotline.
	In accordance with 310 CMR 7.24 (6)(c)(3,4,5,6-10), perform Compliance Testing and Certification Requirements.
EU29-10, EU29-11, EU29-12, EU29-13, EU70-5	Pursuant to the MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor unit operations to ensure continuous compliance with PM emission limits.
EU99-1,EU99-2,EU99-3,EU99-5, EU29-10, EU29-11, EU29-12, EU29-13, EU29-2HTR, EU29-5HTR, EU70-5	In accordance with 310 CMR 7.04(4)(a), inspect and maintain any fuel utilization facility, rated by MassDEP as having an energy input capacity equal to or greater than 3 MMBTU per hour, in accordance with manufacturer's recommendations, and test for efficient operation at least once in each calendar year.
EU81-CLEAN	In accordance with MBR-08-IND-008, monitor operations to demonstrate compliance with 40 CFR Part 63, Subpart GG, National Emission Standards for Aerospace Manufacturing and Rework Facilities.
EU99-10	In accordance with 310 CMR 7.02(8)(i)2., monitor the engines hours of operation. The engine 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.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EUGP8-RTC, EUGP8-RSC	In accordance with Approval MBR-06-IND-028, General Condition No. 13., the MassDEP may, in accordance with Regulation 310 CMR 7.13, require source emission testing ("stack testing"). All emission testing shall be conducted in accordance with the MassDEP's Guidelines for Source Emission Testing and with 310 CMR 7.13.
EU81-CLEAN	In accordance with Approval MBR-08-IND-008, General Condition No. 13, the MassDEP may, in accordance with Regulation 310 CMR 7.13, require source emission testing ("stack testing"). All emission testing shall be conducted in accordance with the MassDEP's Guidelines for Source Emission Testing and with 310 CMR 7.13.
Facility-Wide	Pursuant to the 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 the MassDEP pursuant to 310 CMR 7.12 on site for five (5) years after the date the report is submitted.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1,EU99-2,EU99-3,EU99-5,EU99-8,EU99-10	Pursuant to the MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., record sulfur content of each new shipment of fuel(s) received (except natural gas). Compliance with 310 CMR 7.05(1)(a)1. and (1)(a)2. for sulfur content of the fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by the MassDEP and the United States Environmental Protection Agency (EPA). Fuel sulfur information may be provided by fuel suppliers.
EU99-8	The Permittee shall keep records to document compliance with 310 CMR 7.06(1)(a) and (b).
EU99-1,EU99-2,EU99-3, EU99-5,EU99-8	In accordance with 310 CMR 7.04(2), shall maintain on-site opacity charts. EU99-8 opacity shall be recorded using a smoke sensor in accordance with 310 CMR 7.04(2) when operating either the Bypass Stack or the Main Stack. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(10)(b), maintain these records on-site for a period of five years.
EU99-1, EU99-2, EU99-3, EU99-5	In accordance with 310 CMR 7.06(1)(c), maintain records of the information specified in Table 5. The calendar date for each record shall be clearly identified on the record.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain smoke density indicator recorder records.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1, EU99-2, EU99-3, EU99-5	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain all 40 CFR 60 Appendix A Method 9 records.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a copy of the Plan of Good Operating Practices approved by the MassDEP.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a logbook or other permanent record that identifies the calendar date, start time, and end time for all smoke density indicator system calibrations.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a logbook or other permanent record that identifies the calendar date, start time, and end time for any period of malfunction of the smoke density indicator, recorder and alarm system.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a logbook or other permanent record that identifies the calendar date, start time, and end time for each startup, shutdown, burner change out, load ramping/load shifting, fuel switching, testing/optimization, and soot blow.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a logbook or other permanent record that identifies the calendar date, start time, end time and a description of all maintenance performed on the smoke density sensing instrument, recorder and audible alarm system.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a logbook or other permanent record that identifies the calendar date, start time, end time and a description of the operating conditions for each event when the smoke density indicator, recorder and alarm system or Method 9 observations identifies that the opacity exceeded the level for the specific operating condition identified in Table 3 of this Operating Permit.
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, maintain a copy of the certification of the qualified observer for each 40 CFR 60, Appendix A, Method 9 observation.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), maintain on-site adequate records to document the actual NO_x and SO_2 emissions during the month and the actual NO_x and SO_2 emissions on a rolling 12-month basis. Actual NO_x emissions shall be derived for each boiler from the data gathered from its Continuous Emission Monitoring System (CEMS) and the fuel consumed in the boiler.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), compliance with SO_2 limits shall be determined based on fuel analysis, fuel consumption records, the logging of fuel type and the monitoring of fuel use via recording of fuel meter data.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1, EU99-2, EU99-3, EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), record on a quarterly basis the sulfur content of fuel oil used by obtaining one homogeneous sample every calendar quarter from each active fuel storage tank from which fuel oil was taken for use during that quarter and have the sample analyzed for sulfur content pursuant to American Society of Testing Materials (ASTM) D2622- Test Method for Sulfur in Petroleum Products by X-Ray Spectrometry or equivalent method. In addition, in lieu of quarterly fuel oil sampling and analysis for sulfur content, compliance with this requirement can be demonstrated by vendor fuel sulfur data obtained in compliance with 310 CMR 7.05(1)(a)1 and (1)(a)(2).
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), calculate and track the 12 month rolling totals for energy consumption and NO_x and SO_2 emissions based on each type of fuel use. This data, including fuel use, resulting emissions (both monthly and on a rolling 12-month basis), total energy input and a sample NO_x and SO_2 emission calculation shall be summarized in a spreadsheet format. All of the above records shall be maintained on site for a minimum of five (5) years and shall be made available to MassDEP personnel upon request.
	In accordance with Approval MBR-97-COM-016, Proviso No. C.(4), ensure that the NO_x and O_2 CEMS operate at all times the emission units are operating, except for periods of CEMS calibration checks, zero and span adjustment, preventive maintenance, and periods of unavoidable malfunctions. In any event obtain and record valid hourly-average data from each CEM for at least 90 percent of the emission unit operating hours per quarter.
	In accordance with Approval MBR-97-COM-016, Proviso No. D.(3), record all environmental information associated with environmental issues at the facility, related to 310 CMR 7.00 and the equipment covered by this Approval, in an Environmental Logbook, or equivalent recordkeeping system. The Permittee shall record information such as the results of federal, state, or local environmental inspections; and maintenance or corrective actions related to air pollution control equipment.
EU99-3,EU99-8	Comply with quality assurance requirements provided in 310 CMR 7.28.
	In accordance with 310 CMR 7.28(8)(e), information on the Authorized Account Representative (AAR) Form must be kept current.
	As required by 310 CMR 7.28(12), any person who owns, leases, operates or controls a budget unit must keep all measurements, data, reports and other information required by 310 CMR 7.28 for five years, or any other period consistent with the budget unit's operating permit.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1,EU99-2,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No.C.(7), boiler CEMS comply with quality assurance requirements provided in 40 CFR Part 60 Appendix F. For EU99-5, 40 CFR 75 Appendix B timelines may be followed for conducting CEMS QA CGA and RATA audit testing under both Approval MBR-97-COM-016 and NSPS, Subpart Db, consistent with the November 2005 EPA Petition Approval for EU99-5.
EU99-3	In accordance with Approval MBR-94-COM-008, Proviso No. V.3, maintain NO_x and SO_2 emission records for Unit No. 3 at the Central Utility Plant of GEA for a minimum of five years and shall make them available to MassDEP personnel upon request.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1,EU99-2, EU99-3,EU99-8	In accordance with 310 CMR 7.19(13)(d), and Approval MBR-94-COM-008, Proviso V, 1.a., b., c., and e. record the following: a. maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each continuous emission monitor; b. submit to MassDEP's Northeast Regional Office (NERO), attention Permit Chief for the Bureau of Waste Prevention, by the 30th day of April, July, October, and January of each calendar year a report showing any excess emissions as measured by a CEMS within the previous calendar quarter (January-March, April-June, July-September, and October-December) and shall include: 1) the date and time of commencement and completion of each period of excess emissions and the magnitude of the excess emissions for each hour; 2) identification of the suspected reason for the excess emissions and any corrective action taken; 3) the date and time that any CEMS stopped collecting valid data and when it started to collect valid data again, except for zero and span checks; and 4) the nature and date of system repairs; In the event none of the above items have occurred such information shall be stated in the report; c. measure and record for each unit on a daily basis: type fuel(s) burned each day, heat content of each fuel (measured heat content values from the fuel supplier), the total heating value of the fuel consumed for each day, the actual NO_x and CO emission rates (for emissions units demonstrating compliance with continuous emissions monitoring systems), and the allowable NO_x and CO emission rates; e. maintain all daily records and fuel supplier certification or fuel oil analysis reports on site for a period of five years. The records shall be permanently bound in a logbook or any other form acceptable to MassDEP including computer retained and generated data. All compliance records shall be submitted within 10 days of a written request by MassDEP or EPA. Said records and reports shall be made available to the MassDEP or EPA personnel upon request.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-1,EU99-2, EU99-3,EU99-8	In accordance with Approval MBR-94-COM-008, Proviso No. VI. 6. maintain on-site, at all times, a copy of the Standard Operating and Maintenance Procedure (SOMP) for the subject equipment.
EU99-1,EU99-2, EU99-3	In accordance with 310 CMR 7.19(13)(d), and Approval MBR-94-COM-008, Proviso V, record the following: a. obtain a certification from the fuel oil supplier for each new shipment of residual oil fuel that includes the following information: 1) the name of the oil supplier; 2) the nitrogen content of each oil shipment (acceptable test methods for determining nitrogen content of the fuel oil are ASTM methods D3228 and D4629 or any other method approved by MassDEP and EPA); 3) the location where the sample was drawn for analysis to determine the nitrogen content of the oil, specifically including whether the fuel oil was sampled as delivered to the affected facility or whether the sample was drawn from fuel oil in storage at the oil supplier's or oil refiner's facility or another location. Alternatively, GEAE may elect to sample and analyze the residual oil immediately after the fuel tank is filled and before any oil is combusted for each new shipment according to methods approved by the MassDEP;
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso C(12), record the following: a. record hours of operation of each boiler unit including start-ups and shut-downs; b. record all maintenance performed on all boiler/burner units, and required continuous emission and opacity monitoring systems; c. record all calibrations of all continuous emission and opacity monitoring systems; d. maintain records of all fuel receipts (monthly bills) in the case of natural gas.
EU99-5	In accordance with 40 CFR 60.49b(d), record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for natural gas and residual oil for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU99-5	In accordance with 40 CFR 60.49b(g), maintain records of the following information for each steam generating unit operating day: (1) Calendar date. (2) The average hourly nitrogen oxides emission rates (expressed as NO_2)(ng/J or lb/million Btu heat input) measured or predicted. (3) The 30-day average nitrogen oxides emission rates (ng/J or lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxides emission rates for the preceding 30 steam generating unit operating days. (4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under Section 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken. (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken. (6) Identification of the times when emission data have been excluded from the calculation of average emission rates the reasons for excluding data. (7) Identification of “F” factor used for calculations, method of determination, and type of fuel combusted. (8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system. (9) Description of any modifications to the continuous monitoring system that could affect the ability of the continuous monitoring system to comply with Performance Specification 2 or 3. (10) Results of daily CEMS drift tests and quarterly accuracy assessments as required under Appendix F, Procedure 1.
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,EU200 Series (201-204)	In accordance with Approvals MBR-93-COM-021, Proviso No. C.(2), MBR-07-COM-004B, Condition VIII.1 and 048-119-MA09, Condition V.A, record the fuel rate at least every two seconds for each test cell. Every two seconds, the fuel flow rate shall be multiplied by an emission factor (expressed in pounds of NO_x per 1000 pounds of fuel) that the system selects from a curve of emission factor versus fuel flow rates. Each engine curve was derived from engine testing data. The result of the above calculations, an instantaneous NO_x emission rate, is totaled and the data is stored to produce a consecutive 365-day total on a rolling basis.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,EU200 Series (201-204)	In accordance with Approvals MBR-93-COM-021, Proviso No. C.(3), MBR-07-COM-004B, Condition XII.2 and 048-119-MA09, Condition VIII.A, a copy of this Final Approval letter shall be posted at or near the subject equipment.
	In accordance with Approval MBR-93-COM-021, Proviso No. C.(4), keep operating and maintenance records on each test cell/engine unit. These records shall contain the following information: a. record hours of operation of each test cell/engine unit including start-ups and shut-downs; b. record all maintenance performed on each test cell/engine unit and required fuel monitoring system; c. record all calibrations of test cell fuel monitoring systems; d. maintain records of all fuel receipts.
	In accordance with Approvals MBR-93-COM-021, Proviso No. C.(5), MBR-07-COM-004B, Condition VIII.2 and 048-119-MA09, Condition V.C, the automated real-time emissions monitoring system shall be operated and shall record valid data at all times of operation of the equipment being monitored, except for periods of malfunction and quality assurance/quality control for the automated real-time emissions monitoring system. In any event, despite periods of malfunction and quality assurance/quality control, the automated real-time emissions monitoring system shall be operated and record valid data for at least 90 percent of the operating time of the equipment being monitored, over any and all calendar quarters. Compliance calculations for periods in which data is not available due to a malfunction and quality assurance/quality control shall be calculated using average fuel flow rates and normalized emission factors for the engine type being tested.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU2, EU5	In accordance with Approvals MBR-07-COM-004B, Condition IX.1 and 048-119-MA09, Condition VI, a record keeping system for the modified facility shall be established and maintained on site by GE. All such records shall be maintained up-to-date such that year-to-date information is readily available for MassDEP or EPA examination upon request and shall be kept on-site for a minimum of five (5) years. Record keeping shall, at a minimum, include: a) Compliance records sufficient to demonstrate that emissions from the modified facility have not exceeded what is allowed by the MBR-07-COM-004B and 048-119-MA09 approvals. Such records shall include, but are not limited to, hourly fuel usage rates; emissions test results; fuel monitoring equipment data and reports; hours of operation of each test cell (2&5), including the time of each start-up and shut-down; records of all calibrations of the modified test cell fuel monitoring systems; records of all fuel receipts; the records showing the hourly fuel consumption of each cell and records of each emission curve for each different engine family that is tested in Test Cells 2 and 5. b) Maintenance: A record of routine maintenance activities performed as it relates to air emissions on the modified equipment and fuel monitoring equipment including, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed. c) Malfunctions: A record of all malfunctions as it relates to air emissions on the modified units and monitoring equipment including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the modified equipment was returned to compliance. A malfunction is a sudden and reasonably unforeseeable failure that results in an exceedance of the emission limits in Table 3 for Test Cells 2 and 5.
EU2, EU5, EU29-2HTR, EU29-5HTR	In accordance with Approval MBR-08-IND-008, Condition X.3, GE shall maintain adequate monthly records to demonstrate the facility's compliance with the short term and long-term emission limitations of NOx, CO, VOC, SO2, and PM, specified in MBR-08-IND-008. At a minimum, the information shall include the amount of fuel used during the month for each unit, and the actual emissions (i.e., actual fuel times emission rate) of NOx, CO, VOC, SO2, and PM for the month as well as the prior 11 months. (See electronic version of the On-site Record-keeping Forms for an example of a format that is acceptable to MassDEP. An electronic version of this form in Microsoft Excel format can be downloaded at: http://www.mass.gov/dep/air/approvals/aqforms.htm#report.)

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU2, EU5	In accordance with Approvals MBR-07-COM-004B, Condition VIII.3, and 048-119-MA09, Condition V.D shall use dual fuel meters to record the consumption of fuel in each test cell. These fuel meters shall be “non-resetable” and shall meet the requirements of 40 CFR Part 75, Appendix D, Paragraph 2.1.2 requiring an accuracy of 2% and annual calibrations.
	In accordance with Approval MBR-07-COM-004B, Condition XII.2, the Standard Operating and Maintenance Procedures for Test Cells 2 and 5 shall be kept and maintained electronically onsite.
EU114,EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 12., record the fuel use for Test Cell 114 and for Test Cell 115, and maintain on-site records of the hourly fuel consumption in each of these cells. In addition, these records shall specify the total fuel consumption for the test cell pair 114/115 by hour, and by calendar day.
EU2, EU5, EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 18. and, MBR-07-COM-004B, Condition IX.2 maintain records of the sulfur content of the fuel in the seven (7) fuel storage tanks serving Test Cells 2, 5, 114 and 115. Whenever a new load of fuel has been added to one of these tanks, the tank shall be taken off-line until the fuel has had a 24-hour period to homogenize. The sulfur content of the tank shall then be recorded before the fuel from this tank is used by the test cells. GEAE shall record when the tank is taken off-line and when the tank is put back on-line.
	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 19. and MBR-07-COM-004B, Condition IX.3, maintain on-site records documenting the quality assurances and quality control program utilized in their internal laboratory fuel-testing program.
EU32-18	In accordance with 40 CFR 63.752(b)(1), record the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations at the facility.
	In accordance with 40 CFR 63.752(b)(5)(Cleaning Operation), record all leaks from enclosed spray gun cleaners identified pursuant to Section 63.751(a) that includes for each leak found: (i) Source identification; (ii) Date leak was discovered; and (iii) Date leak was repaired.
Group 1-Handwipe Cleaning of Aerospace Components, EU81-CLEAN	In accordance with 40 CFR 63.752(b)(Cleaning Operation), record the information specified in paragraphs (b)(1) through (b)(4) of this section, as appropriate.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
Group 2-Non- Aerospace NESHAP Cold Cleaner Degreasers, Group 3-Aerospace NESHAP Cold Cleaner Degreasers	In accordance with 310 CMR 7.18(8)(g), shall prepare and maintain daily records sufficient to demonstrate compliance. Records kept to demonstrate compliance shall be kept on-site and shall be made available to representatives of the MassDEP and EPA in accordance with the requirements of an approved compliance plan or upon request. Such records shall include, but not limited to: 1. identity, quantity, formulation and density of solvent(s) used; 2. quantity, formulation and density of all waste solvent(s) generated; 3. actual operational and performance characteristics of the degreaser and any appurtenant emissions capture and control equipment, if applicable; and 4. any other requirements specified by MassDEP in any approval(s) and/or order(s) issued to the person.
Group 3-Aerospace NESHAP Cold Cleaner Degreasers	In accordance with 40 CFR 63.752(b)(Cleaning Operation), record the information specified in paragraphs (b)(1) and (b)(2) of this section.
Group 4-Washers (Flush Cleaning of Aerospace Components), Group 5-General Flush Cleaning of Aerospace Components	In accordance with 40 CFR 63.752(b)(1), record the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for affected cleaning operations at the facility.
	In accordance with 40 CFR 63.752(b)(2), for each cleaning solvent used in hand-wipe cleaning operations that complies with composition requirements specified in Section 63.744(b)(1) or for semi-aqueous cleaning solvents used for flush cleaning operations: (i) The name of each cleaning solvent used; (ii) All data and calculations that demonstrate that the cleaning solvent complies with one of the composition requirements; and (iii) Annual records of the volume of each solvent used, as determined from facility purchase records or usage records.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EUU-F57A	In accordance with 310 CMR 7.24(3)(f), shall: 1. install, maintain and properly operate the vapor balance system; and, 2. maintain records of all maintenance performed, including the type of maintenance performed and date the maintenance was performed; and, 3. maintain records of all malfunctions, including the type of malfunction, the date the malfunction was observed, and the date the malfunction was repaired; and, 4. maintain all gauges, meters, or other specified testing device in proper working order; and 5. maintain records of the daily throughput of any organic material with a true vapor pressure of 1.5 pounds per square inch (psia) or greater under actual storage conditions.
	In accordance with 310 CMR 7.24(6)(b)2., a visual inspection of a Stage II system to meet the requirements of 310 CMR 7.24(6)(b)1.c. may be performed only by a person who is trained to operate and maintain the Stage II system in accordance with the terms and conditions of the system's currently applicable Executive Order. Each person subject to 310 CMR 7.24(6) shall maintain a current record of all persons trained as per 310 CMR 7.24(6)(b)2. Such record shall be maintained on site and shall include the following: a. the date training was last received; ii. the trainee's printed name; and b. the personal signature of the trainee acknowledging receipt of the training.
	In accordance with 310 CMR 7.24(6)(b)3., maintain records of all weekly visual inspections of Stage II system, and all maintenance performed for the most recent rolling 12-month period.
	In accordance with 310 CMR 7.24(7)(d)4., maintain records of all transfer documents specified in 310 CMR 7.24(7)(e)2.
EU29-10, EU29-11, EU29-12, EU29-13, EU70-5	Pursuant to the 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.
EU29-2HTR, EU29-5HTR	Pursuant to the MassDEP 's authority through 310 CMR 7.00: Appendix C(9)(b)2., record unit parameters, as necessary, to ensure continuous compliance with NOx, CO, VOC, SO2, PM/PM10 emission limits.
EU99-1,EU99-2,EU99-3,EU99-5,EU29-10, EU29-11, EU29-12, EU29-13, EU29-2HTR, EU29-5HTR, EU70-5	In accordance with 310 CMR 7.04(4)(a), maintain and post results of inspection, maintenance and testing, and the date upon which it was performed, of fuel utilization facility rated by the MassDEP as having an energy input capacity greater than or equal to 3 MMBTU/ hr, posted on or near the facility.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU29-2HTR, EU29-5HTR	In accordance with MBR-07-COM-004B, Condition IX, keep the following records: a. Monthly records of natural gas fuel usage; b. Records of routine maintenance activities performed as they relate to air emissions, including at a minimum the type or description of the maintenance performed and the date and time the work was completed. c. Records of all malfunctions as they relate to air emissions, including at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the modified equipment was returned to compliance.
EU99-10	In accordance with 310 CMR 7.02(8)(i)3., maintain the following records: a. Information on equipment type, make and model, and maximum power input/output; and b. A monthly log of hours of operation, gallons of fuel used, fuel type and heating value, and a monthly calculation of the total hours operated and gallons of fuel used in the previous 12 months shall be kept on-site; and c. Purchase orders, invoices, and other documents to support information in the monthly log.
	In accordance with 310 CMR 7.02(8)(i)4., monthly log(s) and records established under 310 CMR 7.02(8)(i)3. shall be made available to the MassDEP or its designee upon request. The owner or operator shall certify that the log is accurate and true in accordance with 310 CMR 7.01(2).

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EUGP8-RTC, EUGP8-RSC	In accordance with Approval MBR-06-IND-028, General Condition No. 2., a recordkeeping system shall be established and continued on site. All records shall be maintained up-to-date such that year-to-date information is readily available for MassDEP examination. Recordkeeping shall, at a minimum, include: a) The initiation and completion dates for the proposed construction/reconstruction/alteration. b) Maintenance. A record of routine maintenance activities including, at a minimum, a description of the maintenance performed and the date and time the work was completed. c) Malfunctions. A record of all malfunctions including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance. d) Records shall be maintained documenting the air contaminant emission analysis supporting the response to BWP AQ 01-B Section-C. e) All records shall be kept on site for five (5) years from date of record and shall be made available to the MassDEP upon request.
	In accordance with Approval MBR-06-IND-028, Special Condition No. 5., GE shall maintain adequate on-site records to document compliance with the emission limits as stated in Special Condition Nos. 2 and 3 in Approval MBR-06-IND-028. Said records shall be made available to MassDEP personnel upon request, and shall be kept on site for a minimum of five (5) years. (See electronic version of the On-site Record-keeping Forms for an example of a format, which is acceptable to the MassDEP. An electronic version of this form in Microsoft Excel format can be obtained at http://www.mass.gov/dep/air/approvals/aqforms.htm#report.)

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU81-CLEAN	In accordance with Approval MBR-08-IND-008, General Condition No. 2., a recordkeeping system shall be established and continued on site. All records shall be maintained up-to-date such that year-to-date information is readily available for MassDEP examination. Recordkeeping shall, at a minimum, include: a) The initiation and completion dates for the proposed construction/reconstruction/alteration. b) Maintenance. A record of routine maintenance activities including, at a minimum, a description of the maintenance performed and the date and time the work was completed. c) Malfunctions. A record of all malfunctions including, at a minimum: the date and time the malfunction occurred; a description of the malfunction and the corrective action taken; the date and time corrective actions were initiated; and the date and time corrective actions were completed and the facility returned to compliance. d) Records shall be maintained documenting the air contaminant emission analysis supporting the response to BWP AQ 01-B Section-C. e) All records shall be kept on site for five (5) years from date of record and shall be made available to the MassDEP upon request.
	In accordance with Approval MBR-08-IND-008, Special Condition No. 3., GE shall maintain adequate on-site records to document compliance with the emission limits as stated in Special Condition Nos. 2 in Approval MBR-08-IND-008. Said records shall be made available to MassDEP personnel upon request, and shall be kept on site for a minimum of five (5) years. (See electronic version of the On-site Record-keeping Forms for an example of a format, which is acceptable to the MassDEP. An electronic version of this form in Microsoft Excel format can be obtained at http://www.mass.gov/dep/air/approvals/aqforms.htm#report.)
Facility-Wide	Keep copies of Source Registration/Emission Statement Forms submitted annually to MassDEP as required per 310 CMR 7.12(3)(b).

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
Facility-Wide	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 the 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
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with Approval MBR-97-COM-016, Proviso No. C.(3), calculate and track the 12 month rolling totals for energy consumption and NO_x and SO_2 emissions based on each type of fuel use. This data, including fuel use, resulting emissions (both monthly and on a rolling 12-month basis), total energy input and a sample NO_x and SO_2 emission calculation shall be summarized in a spreadsheet format. A quarterly report of the latest 3 months above describing boiler NO_x and SO_2 emissions data must be submitted to MassDEP, attention Permit Chief for the Bureau Of Waste Prevention, by no later than January 30, April 30, July 30, and October 30 of each year.
	In accordance with Approval MBR-97-COM-016, Proviso No. D. (7), the Northeast Regional Bureau of Waste Prevention office, attention Compliance and Enforcement Chief, must be notified by telephone as soon as possible after the occurrence of any upsets or malfunctions to facility equipment, which result in an excess emission to the air and/or a condition of air pollution.

Table 6	
EU#	REPORTING REQUIREMENTS
	In accordance with 310 CMR 7.06(1)(c) and the Plan of Good Operating Practices, notify the MassDEP, in writing, of any 40 CFR 60, Appendix A, Method 9 test results that indicates the percent opacity to be in excess of that defined in Table 3. The notice of each event shall be given within one business day. Within three business days the Permittee shall submit: a copy of the Method 9 data sheet(s), copy of smoke density indicator records, an explanation for the elevated opacity, and any proposed revisions to the Plan of Good Operating Practices which will be implemented so as to prevent a recurrence of said exceedance in the future.
EU99-1,EU99-2,EU99-3,EU99-5	In accordance with 310 CMR 7.06(1)(c)1.g., when notified in writing at least five business days prior to scheduled events, the MassDEP may allow exemptions to 310 CMR 7.06(1)(c)1.a.; 310 CMR 7.06(1)(c)1.b. and; 310 CMR 7.06(1)(c)1.c. Such notification shall include a brief description of the activity, its start time and anticipated end time. The MassDEP may allow a shorter notification period upon request. The MassDEP may deny or limit the frequency of such activities.
EU99-1,EU99-2, EU99-3,EU99-8	In accordance with 310 CMR 7.19(13)(d), and Approval MBR-94-COM-008, Proviso V, report the following: a. submit to MassDEP's Northeast Regional Office (NERO), attention Permit Chief for the Bureau of Waste Prevention, by the 30th day of April, July, October, and January of each calendar year a report showing any excess emissions as measured by a CEMS within the previous calendar quarter (January-March, April-June, July-September, and October-December) and shall include: 1) the date and time of commencement and completion of each period of excess emissions and the magnitude of the excess emissions for each hour; 2) identification of the suspected reason for the excess emissions and any corrective action taken; 3) the date and time that any CEMS stopped collecting valid data and when it started to collect valid data again, except for zero and span checks; and 4) the nature and date of system repairs; In the event none of the above items have occurred such information shall be stated in the report.
EU99-3	In accordance with MBR-04-COM-008, Proviso V.4, GEA shall report Unit No. 3 monthly and rolling 12-month NO_x and SO_2 emissions in the quarterly reports that are submitted per Approval MBR-97-COM-016.

Table 6	
EU#	REPORTING REQUIREMENTS
EU99-3,EU99-8	As required by 310 CMR 7.28(13)(a)(1), for units commencing operation prior to May 1, 2002, the AAR must submit quarterly reports to MassDEP for each calendar quarter beginning with: the earlier of the calendar quarter that includes the date of initial certification or, if the certification tests are not completed by May 1, 2002, the partial calendar quarter from May 1, 2002 through June 30, 2002. Data shall be recorded and reported from the earlier of the date and hour corresponding to the date and hour of certification or the first hour on May 1, 2002.
	In accordance with 310 CMR 7.28(13)(b), the AAR for each budget unit using CEMS must submit to the Administrator all emissions and operating information for each calendar quarter of each year in accordance with the standards specified in 40 CFR Part 75 Subpart H and 40 CFR 75.64.
EU99-3,EU99-8	In accordance with 310 CMR 7.28(13)(c)(2), for units not subject to an Acid Rain Emissions limitation, quarterly reports are only required to include all of the data and information required in 40 CFR Part 75 Subpart H for each NOx Budget unit (or group of units using a common stack).
	In accordance with Approval MBR-01-728-009, Section C, NO_x emissions data should be reported directly to EPA's National Computer Center mainframe computer in a method acceptable to EPA. The deadline to submit data to EPA is 30 days after the end of each calendar quarter.
	In accordance with 310 CMR 7.28(13)(d), should a budget unit be permanently shut down, the MassDEP will grant an exemption from the requirements of 310 CMR 7.28 upon request from the budget unit's AAR, and provided the shutdown is part of an approved emission control plan or approved under 310 CMR 7.00: Appendix B. The request must include an identification of the budget unit being shutdown, and the date of shutdown. MassDEP approval of the request for shutdown exemption will be sent to the AAR, and the Administrator, and may contain conditions as deemed necessary by MassDEP.
	In accordance with 310 CMR 7.28(13)(e), by October 15 of each year, any person who owns, leases, operates or controls a new or existing budget unit must report to MassDEP each facility's metered net electric and useful steam output for that year's control period. Net electric output must be reported in megawatt-hours, and steam output in MMBtu. If data for steam output is not available, the person may report heat input providing useful steam output as a surrogate for steam output.
	In accordance with 310 CMR 7.28(15)(a), for each control period, the AAR for the budget unit shall submit an annual compliance certification report to MassDEP and the Administrator.
	In accordance with 310 CMR 7.28(15)(b), the compliance certification report shall be submitted no later than the allowance transfer deadline (November 30) of each year.

Table 6	
EU#	REPORTING REQUIREMENTS
EU99-3,EU99-8	In accordance with 310 CMR 7.28(15)(c), the compliance certification shall contain the following elements, in a format prescribed by the Administrator: 1. Identification of the budget unit, including name, unit address, name of AAR and NATS account number. 2. At the AAR's option, the serial numbers of the NOx allowances that are to be deducted from each unit's compliance account for the control period, and the percent of allowances to be deducted for each unit on a common stack. 3. A statement that emissions data have been submitted to the Administrator in accordance with the procedures established in 310 CMR 7.28(13) and in conformance with the requirements of the Administrator. 4. A statement that the budget unit holds sufficient current year or banked allowances available under 40 CFR 96.54 in its compliance or overdraft account for the control period, as of the allowance transfer deadline, to equal or exceed the recorded emissions for the control period. 5. A statement certifying that the monitoring data reflected operations at the budget unit. 6. A statement that all emissions from the budget unit were accounted for, either through the applicable monitoring or through application of the appropriate missing data procedures and reported in the quarterly reports. If provisionally certified data were reported, the NOx AAR must indicate whether the status of all provisionally certified data was resolved and all necessary quarterly reports were submitted. 7. A statement indicating whether there was any changes in the method of operation of the budget unit or the method of monitoring the budget unit during the current year. If a change must be reported, then specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor re-certification.

Table 6	
EU#	REPORTING REQUIREMENTS
EU99-3,EU99-8	In accordance with 310 CMR 7.28(15)(c), the compliance certification shall contain the following elements, in a format prescribed by the Administrator: 8. A certification statement stating (verbatim): "I am authorized to make this submission on behalf of the owners, lessees, operators and controllers of the NOx Budget units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."
	In accordance with 310 CMR 7.28(15)(d), the MassDEP may verify compliance by whatever means necessary, including but not limited to: 1. Inspection of a unit's operating records; 2. Obtaining information on allowance deduction and transfers from the NATS; 3. Obtaining information on emissions from the NETS; 4. Testing emission monitoring devices; and, 5. Requiring the person who owns, leases, operates or controls a budget unit to conduct emissions testing under the supervision of the MassDEP.
	In accordance with Approval MBR-01-728-009, Section F, Notification of QA testing is required for Relative Accuracy Test Audits (RATAs) and AppendixE/LME (Low Mass Emission) unit tests. Notification must be made at least 21 days prior to the scheduled test date to the EPA as required by 40 CFR 75.61, to the MassDEP Lawrence office at the MassDEP, Wall Experiment Station, 37 Shattuck Street, Lawrence, MA 01843-1398 Attn: Source Monitoring Section, and to the MassDEP Northeast Regional office, Attn: BWP Permit Chief. Notification may be made by U.S. mail/overnight mail or e-mail. If tests must be rescheduled, 24 hours notice must be given, as specified in 40 CFR 75.61(a)(5).
	In accordance with Approval MBR-01-728-009, Section F, A previously approved RATA protocol may be referenced at the time of test notification provided that the referenced protocol was completed in accordance with current 40 CFR Part 75 procedures, addresses all previous MassDEP protocol comments to the satisfaction of the MassDEP, and none of the information has changed. If a revised protocol must be submitted, it must be submitted to the MassDEP at least 21 days prior to the scheduled test date.
	In accordance with Approval MBR-01-728-009, Section F, a hardcopy of the QA RATA or Appendix E/LME test results must be submitted to both the MassDEP Lawrence and the MassDEP Northeast Regional offices within 45 days of completion of tests. The electronic results must be submitted in the quarterly electronic data report (EDR).

Table 6	
EU#	REPORTING REQUIREMENTS
EU99-3,EU99-8	In accordance with Approval MBR-01-728-009, Section F, results from QA daily Calibrations, quarterly Linearity checks and Appendix D Fuel Flowmeter tests must be reported electronically in the EDR submittal for the quarter in which the testing occurs. Test results for Appendix D fuel flow meters must be reported as instructed by EPA.
EU99-5	In accordance with 40 CFR 60.49b(h), submit excess emission reports to the MassDEP for any semi-annual period during which there are excess emissions from the affected facility. If there are no excess emissions during the reporting period, the owner or operator shall submit a report semiannually stating that no excess emissions occurred during the semi-annual reporting period. For the purpose of Section 60.48b(g)(1), excess emissions are defined as any calculated 30-day rolling average nitrogen oxides emission rate, as determined under Section 60.46b(e), which exceeds the applicable emission limits in Section 60.44b.
	In accordance with 40 CFR 60.49b(i), submit a semi-annual nitrogen oxides report containing the information recorded under 40 CFR 60.49b (g). All semi-annual reports shall be postmarked by the 30^{th} day following the end of each reporting period.
EU1,EU2,EU3,EU4,EU5,EU34N, EU109,EU110,EU111,EU114, EU115,EU116,EU120,EU121, EU122,EU123,EU200 Series (201-204)	In accordance with Approval MBR-93-COM-021, Proviso No. C.(2), and MBR-07-COM-004B, Condition X.2.d, a quarterly report of the latest 3-month NO_x emissions data must be submitted to MassDEP, attention Permit Chief for the Bureau of Waste Prevention, by no later than January 30, April 30, July 30, and October 30 of each year. In addition, the quarterly report shall display the total Lynn Facility Test Cells' NO_x emissions for each twelve-month period established at the end of each month during the quarter.
EU2, EU5	In accordance with Approval MBR-07-COM-004B, Condition X.1, all notifications and reporting within this approval shall be made to: MassDEP/Bureau of Waste Prevention, 205B Lowell street, Wilmington, Massachusetts 01887, ATTN: Permit Chief, Phone: 978-694-3200, Fax: 978-694-3499.

Table 6	
EU#	REPORTING REQUIREMENTS
EU2, EU5	In accordance with Approval MBR-07-COM-004B, Condition VI.5, upon receiving information that the facility may be in non-compliance with Conditions VI.1, and/or VI.3 of Approval MBR-07-COM-004B regarding sound emission levels, GE shall take the following immediate actions: 1) Notify MassDEP's NERO Compliance and Enforcement Section by telephone or fax; 2) Verify whether noncompliance occurred and is continuing; and 3) Take all reasonable interim steps to eliminate or minimize sound emissions to return to compliance. Should noncompliance with Conditions VI.1, and/or VI.3 of this Conditional Approval due to sound emissions from the facility occur despite the interim steps implemented above, GE shall, unless otherwise ordered by MassDEP, submit within 30 days of receipt of information of noncompliance from MassDEP or other credible source, whichever is earlier, a sound reduction plan which sets out: 1) the additional monitoring and remedial actions it proposes to implement in order to verify a return to compliance, and; 2) a schedule for the commencement and completion of each major component of the monitoring and remedial actions (state-only requirement).
	In accordance with Approvals MBR-07-COM-004B, Condition X.2.c, a quarterly report shall be submitted by the 30th of the following month after the end of each quarter and shall include the following: For each period of excess emissions or excursions from allowable operating conditions for the modified facility, GE shall list the duration, cause, the response taken, and the amount of excess emissions. Periods of excess emissions shall include periods of start-up, shutdown, malfunction, emergency, equipment cleaning, and upsets or failures associated with the equipment. (**"Malfunction"** means any sudden and unavoidable failure of the process equipment or of a process to operate in a normal or usual manner. Failures that are caused entirely or in part by poor maintenance, careless operation, or any other preventable upset condition or preventable equipment breakdown shall not be considered malfunctions. **"Emergency"** means any situation arising from sudden and reasonably unforeseeable events beyond the control of this 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 Approval, 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 these things.)

Table 6	
EU#	REPORTING REQUIREMENTS
EU2, EU5, EU114, EU115	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 3. and MBR-07-COM-004B, Condition X.2.a, submit any "significant" proposed revisions to the facility's FSOMP to the Northeast Regional Office for review and written approval, attention Bureau of Waste Prevention Permit Chief, before they become part of the Revised Final SOMP. In this context, "significant" means any change in operating procedures that alter or impact conditions or provisos contained in MBR-98-COM-017, MBR-92-COM-019 and MBR-07-COM-004B. Non-significant changes to the Final SOMP shall be reported to the MassDEP, attention Bureau of Waste Prevention Permit Chief, on a quarterly basis. The report shall be submitted by the 30th of the following month after the end of each quarter.
	In accordance with Approvals MBR-98-COM-017, MBR-92-COM-019, Proviso No. 19. and MBR-07-COM-004B, Condition X.2.b, submit to the Northeast Regional Office (NERO), on a quarterly basis, an independent laboratory analysis of a representative sample of the fuel used in this test program. This analysis shall specify the lower heating value, the viscosity, and the sulfur content by weight. This independent analysis shall be used to audit the Permittee internal fuel analysis program. The MassDEP reserves the right to require Permittee to have additional independent fuel analysis performed at the MassDEP's discretion. The report shall be submitted by the 30th of the following month after the end of each quarter.
EU2, EU5	In accordance with Approval MBR-07-COM-004B, Condition X.4, submit emission testing data for any biofuel 30 days before the proposed date of use. The emissions shall comply with the short term lb/hr emission requirements for EU2 and EU5 included in Table 3.
	In accordance with Approvals MBR-07-COM-004B, Condition XII.13 and 048-119-MA09, Condition VIII.C, the Northeast Regional Bureau of Waste Prevention office, attention Compliance and Enforcement Chief, must be notified by FAX at (978)694-3499 and the Office of Stewardship, attention Compliance and Enforcement Chief, must be notified by FAX at (617)918-1810, within but no later than one business day, and subsequently in writing within seven days, after the occurrence of any upsets or malfunctions to facility equipment, which result in an excess emission to the air and/or a condition of air pollution.
	In accordance with Approval 048-119-MA09, Condition VII.B, GE shall submit to the EPA-New England a semi-annual report postmarked by January 30th and July 30th of each year, which contains the following information from the prior calendar 6-month period: rolling 12-month NOx emissions as calculated by GE's automated, real time parametric emissions monitoring system, monthly fuel rates, and engine emission curves used in the NOx emission calculations.

Table 6	
EU#	REPORTING REQUIREMENTS
EU32-18, Group 1-Handwipe Cleaning of Aerospace Components, Group 3-Aerospace NESHAP Cold Cleaner Degreasers, Group 4-Washers (Flush Cleaning of Aerospace Components), Group 5-General Flush Cleaning of Aerospace Components, EU81-CLEAN	In accordance with 40 CFR 63.753(a), shall adhere to all applicable reporting requirements.
	In accordance with 40 CFR 63.753(b)(Cleaning Operation), submit a report semi-annually to MassDEP. The report shall be postmarked or delivered by January 30 and July 30 to the MassDEP and identify: (i) Any instance where a noncompliant cleaning solvent is used for a non-exempt hand-wipe cleaning operation; (ii) A list of any new cleaning solvents used for hand-wipe cleaning in the previous 6 months and, as appropriate, their composite vapor pressure or notification that they comply with the composition requirements specified in Section 63.744(b)(1); (iii) Any instance where a noncompliant spray gun cleaning method is used; (iv) Any instance where a leaking enclosed spray gun cleaner remains unrepaired and in use for more than 15 days; and (v) If the operations have been in compliance for the semiannual period, a statement that the cleaning operations have been in compliance with applicable standards. Sources shall also submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements.
EUGP8-RTC, EUGP8-RSC	In accordance with Approval MBR-06-IND-028, General Condition No. 3., any construction, substantial reconstruction or alteration, as described in 310 CMR 7.02(1), (3) and (4), at a facility subject to the reporting requirements of 310 CMR 7.12, shall be reported to the MassDEP on the next required source registration.
	In accordance with Approval MBR-06-IND-028, General Condition No. 6., the Regional Bureau of Waste Prevention office must be notified by telephone or fax as soon as possible after the occurrence of any upsets or malfunctions to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the air and a condition of air pollution.
EU81-CLEAN	In accordance with Approval MBR-08-IND-008, General Condition No. 3., any construction, substantial reconstruction or alteration, as described in 310 CMR 7.02(1), (3) and (4), at a facility subject to the reporting requirements of 310 CMR 7.12, shall be reported to the MassDEP on the next required source registration.

Table 6	
EU#	REPORTING REQUIREMENTS
EU81-CLEAN	In accordance with Approval MBR-08-IND-008, General Condition No. 6., the Regional Bureau of Waste Prevention office must be notified by telephone or fax as soon as possible after the occurrence of any upsets or malfunctions to the facility equipment, air pollution control equipment, or monitoring equipment which result in an excess emission to the air and a condition of air pollution.
Facility-Wide	Upon the MassDEP 's request, any record relevant to the Operating Permit or to the emissions of any air contaminant from the facility shall be submitted to the MassDEP within 30 days of the request by the MassDEP or within a longer time period if approved in writing by the MassDEP, and shall be transmitted on paper, on computer disk, or electronically at the discretion of the MassDEP, pursuant to 310 CMR 7.00: Appendix C(10)(a).
	In accordance with 310 CMR 7.00: Appendix C(9)(d), submit, upon request, the test results of any other testing or testing methodology required by MassDEP or EPA.
	By April 15 of each year, submit Source Registration/Emission Statement to MassDEP as required in 310 CMR 7.12.
	Submit by January 30 and July 30 for the previous six months respectively, a summary of all monitoring data and related supporting information to MassDEP as required by 310 CMR 7.00: Appendix C(10)(c).
	Promptly report to the 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).
	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).

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 that are not otherwise specifically identified in this permit.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements:

Table 7	
REGULATION	DESCRIPTION
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases

Table 7	
REGULATION	DESCRIPTION
310 CMR 7.27	NO_x Allowance Program
40 CFR Part 64	Compliance Assurance Monitoring
40 CFR 63, Subpart MMMM (NESHAP)	Surface Coating of Miscellaneous Metal Parts & Products (MMPP), National Emission Standards for Hazardous Air Pollutants (NESHAP)

EU1, EU2, EU3, EU4, EU5, EU34N, EU109, EU110, EU111, EU114, EU115, EU116, EU120, EU121, EU122, EU123, EU200 Series (201-204) are not subject to 40 CFR 60, Subpart GG (60.330-60.335), 310 CMR 7.02(8) and 310 CMR 7.04.

EU99-10 is not subject to 310 CMR 7.19(8).

5. SPECIAL TERMS AND CONDITIONS

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

A. Per data as supplied through the Permittee's Operating Permit Application (MBR-95-OPP-083, Transmittal No. 105724), all EUs shall continue to emit through stacks with the following parameters:

EMISSION UNIT	STACK HEIGHT (Feet)	STACK EXIT DIAMETER (Feet)	STACK MATERIAL
EU99-1	110	6	Steel
EU99-2	135	6	Steel
EU99-3	135	8	Steel
EU99-5	175	5	Steel
EU99-8 (main stack and by-pass stacks are identical)	103	8	Steel
EU1	NA	NA	NA
EU2	36	7.66 (equivalent diameter)	Inner Stack-Steel, Outer Stack Concrete
EU3	50.1	4.2	Steel
EU4	36.1	7.1	Concrete
EU5	50	6.18(equivalent diameter)	Steel
EU34N	55.5	8	Inner Stack-Steel, Outer Stack Brick
EU109	36.1	7.7	Inner Stack-

EMISSION UNIT	STACK HEIGHT (Feet)	STACK EXIT DIAMETER (Feet)	STACK MATERIAL
			Steel, Outer Stack Concrete
EU110	29.6	3.3	Inner Stack-Steel, Outer Stack Concrete
EU111	29.8	3.3	Inner Stack-Steel, Outer Stack Concrete
EU114	45	13.5	Inner Stack-Steel, Outer Stack Concrete
EU115	45	13.5	Inner Stack-Steel, Outer Stack Concrete
EU116	34.7	10	Steel
EU120	36.8	8.9	Inner Stack-Steel, Outer Stack Concrete
EU121	36.7	8.9	Inner Stack-Steel, Outer Stack Concrete
EU122	44.6	18	Inner Stack-Steel, Outer Stack Concrete
EU123	43.4	18	Inner Stack-Steel, Outer Stack Concrete
EU200 Series (201)	43	1	Steel
EU200 Series (202), (203), (204)	62	3.75	Stainless Steel
EU32-18	20	1	Steel
EU29-10	28	1	Steel
EU29-11	28	1	Steel
EU29-12	28	1	Steel
EU29-13	28	1	Steel
EU29-2HTR (exhausts through EU2 stack)	36	7.66 (equiv. diameter)	Inner Stack-Steel, Outer Stack Concrete
EU29-5HTR (exhausts through EU5 stack)	50	6.18 (equiv. Diameter)	Steel
EU70-5	28	1	Stainless Steel
EU99-10	19	1	Steel

B. EU99-3, EU99-8:

1. EU99-3 & EU99-8 are subject to the requirements of NO_x Allowance Program, 310 CMR 7.28. The MassDEP issued an Emission Control Plan (ECP) approval for this facility on October 9, 2002.

2. NOx Allowance use and transfer must comply with 310 CMR 7.28(10).

3. In accordance with 310 CMR 7.28(14)(a), the data reported to the Administrator by the Authorized Account Representative (AAR) for a budget unit in accordance with 310 CMR 7.28(13), and the allowance allocations and transfers recorded in the NATS compliance or overdraft account for that budget unit, are the basis for determining compliance with 310 CMR 7.28.

4. In accordance with 310 CMR 7.28(14)(b), each year by November 30, the AAR for each budget unit may request that the Administrator deduct current year allowances from the compliance or overdraft account equivalent to the NOx emissions from the budget unit in the current control period. The request must be submitted by the AAR to the Administrator no later than the allowance transfer deadline (November 30). The request must identify the compliance or overdraft account from which the deductions should be made, and if desired, the serial numbers of the allowances to be deducted. If no serial numbers are identified, the Administrator will deduct allowances in the following order: current year allowances allocated to the account; current year allowances transferred to the account; banked allowances allocated to the account; and, banked allowances transferred to the account. Banked allowances may be used in place of current year allowances subject to the conditions in 310 CMR 7.28(9).

5. In accordance with 310 CMR 7.28(14)(c), the Administrator will determine whether there are sufficient allowances in the compliance or overdraft account to cover the control period NOx emissions. Regardless of the AAR's request to the Administrator to deduct allowances pursuant to 310 CMR 7.28(14)(b), the Administrator will deduct a number of allowances equal to the current control period's NOx emissions, rounded to the nearest whole ton, from the budget unit's compliance or overdraft account.

6. In accordance with 310 CMR 7.28(14)(d), should the emissions of the budget unit in the current control period exceed the allowances in the budget unit's compliance or overdraft account available for compliance for the control period, the AAR is responsible for obtaining additional allowances by the allowance transfer deadline. The total number of allowances in the compliance or overdraft account, including allowance transfers submitted to the Administrator in accordance with 310 CMR 7.28(10) by the allowance transfer deadline, must equal or exceed the control period emissions of NOx rounded to the nearest whole ton.

7. In accordance with 310 CMR 7.28(14)(e), if the total number of allowances in the budget unit's compliance or overdraft account available for compliance, including allowance transfers submitted to the Administrator by the allowance transfer deadline in accordance with 310 CMR 7.28(10), does not equal or exceed the control period emissions of NOx from that budget unit, the MassDEP will apply deduction penalties according to 310 CMR 7.28(16), and may take any additional enforcement action it deems appropriate.

8. In accordance with Approval MBR-01-728-009, Section F, in the case where non-billing meters are used to determine output, if the facility decides to adopt a system approach to accuracy then a system accuracy of 10.0% must be achieved. If testing an output measurement system shows that the output readings are not accurate to 10.0% or less, then the measurement equipment must be retested or replaced, and meet that requirement. If the facility decides to adopt a component approach to accuracy, then a component

accuracy of 3.0% must be achieved. If testing a piece of output measurement equipment shows that the output readings are not accurate to 3.0% or less of the full scale, then the measurement equipment must be retested or replaced, and meet that requirement.

9. In accordance with Approval MBR-01-728-009, Section F, when a non-billing system fails to meet the 10% or 3% requirement, data should be considered invalid, prospectively, for purposes of determining allocations. Data remain invalid until the output measurement equipment passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test. The invalid data must be omitted and either zero or an output value that is likely to be lower than a measured value must be reported.

10. In accordance with Approval MBR-01-728-009, Section F, output measurement equipment must be tested for accuracy or recalibrated at least once every two years, in accordance with applicable consensus or National Institute of Standards and Technology (NIST) traceable standards, unless a standard allows for less frequent calibrations or accuracy tests.

C. EU99-1, EU99-2, EU99-3, EU99-5:

1. These units are subject to 40 CFR 63, Subpart DDDDD and GEA has submitted initial notification on March 10, 2005 as required.

D. EU99-1, EU99-2, EU99-3, EU99-8:

1. As stated in Approval MBR-94-COM-008, Provision I.4. and Provision II.3., the NO_x and CO emission limits shall not apply during periods of start-up, shutdown, and other exclusion periods as specified in the MassDEP approved Standard Operating Plan.

E. EU2, EU5 (state-only requirements):

1. In accordance with Approval MBR-07-COM-004B, Condition VI.1, GE shall take necessary precautions to ensure that the facility complies with MassDEP's noise regulation and policy and that the facility does not cause a condition of air pollution.

2. In accordance with Approval MBR-07-COM-004B, Condition VI.2, GE shall perform, at a minimum, the following measures or equivalent alternative measures for noise mitigation:

   a) The most significant sources of sound for Test Nos. 2 and 5 (e.g. jet engine, inlet heater) shall be enclosed in sound attenuating enclosures.

   b) The new stack for Test Cell No. 5 shall be equipped with an acoustic silencer and acoustic treatment around the inlet heater. The existing stack for Test Cell No. 2 shall be equipped with acoustic treatment consisting of a series of tubes with sound absorbing rock wool placed between the tubes to absorb sound pressure waves and an acoustic treatment around the inlet heater. Both test cells shall be equipped with acoustic doors.

   c) Inspect and maintain all noise suppression equipment so as to attain and maintain the manufacturers designed noise attenuation.

F. EU32-18, Group 1-Handwipe Cleaning of Aerospace Components, Group 3-Aerospace NESHAP Cold Cleaner Degreasers, Group 4-Washers (Flush Cleaning of Aerospace Components), Group 5-General Flush Cleaning of Aerospace Components, EU81 CLEAN:

1. Emission units EU32-18, Group 1, Group 3, and Group 4, Group 5 and EU81-CLEAN are subject to the requirements of 40 CFR 63.1-15, Subpart A, "General Provisions" [as indicated in Table 1 to Subpart GG of 40 CFR 63]. Compliance with all applicable provisions therein is required.

2. In accordance with 40 CFR 63.744(a), shall comply with the requirements of Section 63.744 unless the cleaning solvent used is identified in Table 1 below or contains HAP and VOC below the de minimis levels specified in Section 63.741(f).

Table 1-Composition Requirement For Approved Cleaning Solvents

Aqueous…… Cleaning solvents in which water is the primary ingredient (>80 percent of cleaning solvent solution as applied must be water). Detergents, surfactants, and bioenzyme mixtures and nutrients may be combined with the water along with a variety of additives, such as organic solvents (e.g., high boiling point alcohols), builders, saponifiers, inhibitors, emulsifiers, pH buffers, and antifoaming agents. Aqueous solutions must have a flash point greater than 93 degrees C (200 degrees F) (as reported by the manufacturer), and the solution must be miscible with water.

Hydrocarbon-based…… Cleaners that are composed of photo chemically reactive hydrocarbons and/or oxygenated hydrocarbons and have a maximum vapor pressure of 7 mm Hg at 20 degrees C (3.75 in. H_2O and 68 degrees F). These cleaners also contain no HAP.

3. In accordance with 40 CFR 63.744(a)(1), the Permittee shall place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Ensure that these bags and containers are kept closed at all times except when depositing or removing these materials from the container. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. Cotton-tipped swabs used for very small cleaning operations are exempt from this requirement. Store fresh and spent cleaning solvents, except semi-aqueous solvent cleaners, used in aerospace cleaning operations in closed containers. Conduct the handling and transfer of cleaning solvents to and from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in such a manner that minimizes spills.

4. In accordance with 40 CFR 63.748, the Permittee shall conduct the handling and transfer of the waste to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills.

G. EU32-18:

1. In accordance with 40 CFR 63.744(c)(1)(Spray Gun Cleaning, Enclosed System), the Permittee shall clean the spray gun in an enclosed system that is closed at all times except when inserting or removing the spray gun. Cleaning shall consist of forcing solvent through the gun. If leaks are found during the monthly inspection required in Section 63.751(a), repairs shall be made as

soon as practicable, but no later than 15 days after the leak was found. If the leak is not repaired by the 15th day after detection, the cleaning solvent shall be removed, and the enclosed cleaner shall be shut down until the leak is repaired or its use is permanently discontinued.

H. Group 1-Handwipe Cleaning of Aerospace Components, EU81-CLEAN:

1. In accordance with 40 CFR 63.744(b)(Hand-wipe Cleaning), the Permittee shall use cleaning solvents that meet one of the requirements specified in paragraphs (1), (2), and (3) of this section:

   (1) Meet one of the composition requirements in Table 1 of Section 63.744(b);

   (2) Have a composite vapor pressure of 45 millimeters (mm) mercury (Hg)(24.1 in. H_2O) or less at 20 degrees C (68 degrees F); or

   (3) Demonstrate that the volume of hand-wipe solvents used in cleaning operations has been reduced by at least 60% from baseline adjusted for production. The baseline shall be established as part of an approved alternative plan administered by the State, Demonstrate that the volume of hand-wipe cleaning solvents used in cleaning operations has been reduced by at least 60 percent from a baseline adjusted for production. The baseline shall be calculated using data from 1996 and 1997, or as otherwise agreed upon by the Administrator or delegated State Authority. The baseline shall be approved by the Administrator or delegated State Authority and shall be included as part of the facility's title V or part 70 permit.

   Cleaning solvent solutions that contain HAP or VOC below the deminimis levels specified in 40 CFR 63.741(f) are exempt from the requirements of paragraphs (1), (2), and (3) described above.

I. Group 2-Non-Aerospace NESHAP Cold Cleaner Degreasers, and Group 3-Aerospace NESHAP Cold Cleaner Degreasers:

1. In accordance with 310 CMR 7.18(8)(a), the Permittee shall comply with either 310 CMR 7.18(8)(a)1. through 6. or 310 CMR 7.18(8)(a)6. through 9.

2. In accordance with 310 CMR 7.18(8)(d), any aqueous cleaner in which all of the following conditions are satisfied is exempt from the requirements of 310 CMR 7.18(8)(a), (b), and (c):

   a. All organic material in the cleaning fluid is water soluble; and

   b. The cleaning fluid contains no more than 5% by weight organic material, excluding soaps.

3. In accordance with 310 CMR 7.18(8)(e), the Permittee shall operate any solvent metal degreaser using procedures which minimize evaporative emissions and prohibit spills from the use of said degreaser.

4. In accordance with 310 CMR 7.18(8)(f), the Permittee shall maintain continuous compliance at all times.

J. Group 3-Aerospace NESHAP Cold Cleaner Degreasers, Group 4-Washers (Flush Cleaning of Aerospace Components), Group 5-General Flush Cleaning of Aerospace Components, EU81-CLEAN:

1. In accordance with 40 CFR 63.744(d)(Flush Cleaning), the Permittee subject to this subpart (excluding those in which Table 1 or semi-aqueous cleaning solvents are used) shall empty the used cleaning solvent each time aerospace parts or assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control.

K. EUU-F57A-Fixed Roof Gasoline Fuel Tank:

1. In accordance with 310 CMR 7.24(3)(a), the Permittee with a storage tank having a capacity greater than 250 gallons but less than 40,000 gallons shall not cause, suffer, allow or permit the transfer of motor vehicle fuel with a true vapor pressure greater than 1.5 pounds per square inch (psia) or greater under actual storage conditions into said facility from any delivery vessel unless the transfer takes place through submerged filling.

2. In accordance with 310 CMR 7.24(3)(b), the Permittee shall not cause, suffer, allow or permit the transfer of motor vehicle fuel with a true vapor pressure greater than 1.5 psia or greater under actual storage conditions to a motor vehicle fuel dispensing facility with a stationary tank having a capacity equal to or greater than 2000 gallons from any delivery vessel unless the vapors displaced from the stationary tank during submerged filling are processed by a vapor balance system.

3. In accordance with 310 CMR 7.24 (6)(b), conduct operation and maintenance requirements.

4. In accordance with 310 CMR 7.24 (6)(f), it shall be a violation of 310 CMR 7.24 (6) if the Permittee:

    a. fails to submit any certification or notification required pursuant to 310 CMR 7.24 (6) as applicable;

    b. make any false, inaccurate, incomplete or misleading statements in any certification or notification required pursuant to 310 CMR 7.24 (6);

    c. make any false, inaccurate, incomplete or misleading statements in any record, plan, file, log or register which said person is required to keep pursuant to 310 CMR 7.24 (6);

    d. hold themselves out as a responsible official in violation of the applicable requirements pursuant to 310 CMR 7.24 (6);

    e. fail to comply with any applicable standards imposed under 310 CMR 7.24(6); or

    f. violate any other provision of 310 CMR 7.24(6).

5. In accordance with 310 CMR 7.24 (7)(f), permanently affix a label to each gasoline-dispensing device as specified below. The label shall state the following: “From November 1 through the last day of February, the gasoline dispensed from this pump is oxygenated and will reduce carbon monoxide pollution from motor vehicles.” Any label required pursuant to 310 CMR 7.24 shall be posted on the

upper 1/3, of the pump or dispenser unit face which depicts volume and cost of gasoline dispensed, such that the label is clear, conspicuous, and easily readable to a driver in the vehicle to which gasoline may be dispensed; and is clearly legible and in block letters that are no less than 20-point bold type; and in a color that contrasts with the background on which they are placed.

L. EU99-10 :

1. In accordance with 310 CMR 7.02 (8)(i)5., on and after July 1, 2007, no person shall accept for delivery for burning in any engine subject to 310 CMR 7.02(8)(i), diesel or any other fuel that does not meet the applicable U.S. EPA sulfur limits for fuel pursuant to 40 CFR 80.29, 40 CFR 80.500, and 40 CFR 80.520(a) and (b) as in effect January 18, 2001.

M. EUGP8-RTC, EUGP8-RSC:

1. In accordance with Approval MBR-06-IND-028, Special Condition No. 3, the ability of the specialty coating line Robotic Thermal Coating Booth (EUGP8-RTC) PM control equipment to maintain a minimum PM control efficiency of 99% and for the specialty coating line Robotic Spray Coating Booth (EUGP8-RSC) PM control equipment to maintain a minimum PM control efficiency of 97% shall be demonstrated when and if, in the opinion of Mass DEP, such is deemed necessary.
2. In accordance with Approval MBR-06-IND-028, Special Condition No. 4, the specialty coating line Robotic Spray Coating Booth (EUGP8-RSC) shall comply with Regulation 310 CMR 7.03(16)(d) thru (k) as specified in Attachment E of the submitted LPA.
3. In accordance with Approval MBR-06-IND-028, Special Condition No. 6, a copy of the MBR-06-IND-028 Approval letter shall be affixed at or adjacent to the subject equipment.
4. In accordance with Approval MBR-06-IND-028, Special Condition No. 7, the MBR-06-IND-028 Approval consists of the application materials and the Approval letter. If conflicting information is found between these two documents, then the requirements of the Approval letter shall take precedence over the documentation in the application materials.
5. In accordance with Approval MBR-06-IND-028, General Condition No. 12, opacity, exclusive of uncombined water, shall not exceed 10% at all times during all modes of operation, including startups and shutdowns. Visible emissions or opacity, which exceed the limits set forth in this approval, shall be reported to the MassDEP in writing or by fax within seven (7) days of the occurrence.

N. EU81-CLEAN

1. In accordance with Approval MBR-08-IND-008, Special Condition No. 5, the exhaust from the exhaust stack for the aforementioned equipment shall exhaust vertically and not be impeded by any stack exit rain protection device.
2. In accordance with Approval MBR-08-IND-008, Special Condition No. 6, a copy of the MBR-08-IND-008 Approval letter shall be affixed at or adjacent to the subject equipment.
3. In accordance with Approval MBR-08-IND-008, Special Condition No. 7, the MBR-08-IND-008 Approval consists of the application materials and the Approval letter. If conflicting information is found between these two documents, then the requirements of the

Approval letter shall take precedence over the documentation in the application materials.

O. Facility-Wide:

1. The Permittee shall comply at all times with Regulations 310 CMR 7.10 (Noise), 310 CMR 7.09 (Dust, Odor, Construction, and Demolition), and shall not create any other nuisance conditions. The Permittee shall immediately, upon notification by the MassDEP, discontinue operation of equipment that causes a nuisance condition, and shall not recommence operation until the causes or circumstances leading to the nuisance condition have been corrected (State Requirement Only).

2. As stated in Approval MBR-93-COM-021, Proviso D.(4) and Approval MBR-97-COM-016, proviso D.(4), the Permittee shall allow MassDEP personnel possessing United States citizenship access to the plant site, buildings, and all pertinent records during normal business hours for the purpose of making inspections and surveys, collecting samples, obtaining data, and reviewing records.

3. As stated in Approval MBR-07-COM-004B, Condition IX.4., GE shall make available to MassDEP for inspection, upon request within a reasonable time, the most recent five years of records as contained in Approval MBR-07-COM-004B, Conditions IX. 1., 2., and 3.

4. In accordance with 310 CMR 7.05 (4), no person owning, leasing or controlling a fuel utilization facility shall cause, suffer, allow or permit the use therein of any fuel additive except in accordance with the manufacturer’s recommended specifications.

5. In accordance with 310 CMR 7.18(1)(c), shall store and dispose of VOC in a manner which will minimize evaporation to the atmosphere. Proper storage shall be in a container with a tight fitting cover. Proper disposal shall include incineration in an incinerator approved by the MassDEP, transfer to another person licensed by the MassDEP to handle VOC, or any other equivalent method approved by the MassDEP.

6. In accordance with 40 CFR Part 82, Subpart F, shall comply with all applicable requirements for each appliance. Appliance means any device which contains and uses a class I or class II substance as a refrigerant and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer. These requirements are applicable to this facility and the United States Environmental Protection Agency enforces these requirements.

7. GEAE has indicated that it is subject to, and complying with, the requirements of 310 CMR 7.16 U Reduction of Single Occupant Commuter Vehicle Use. GEAE shall continue to comply with 310 CMR 7.16.

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.

Pursuant to 310 CMR 7.00: Appendix C(7)(b), emissions trades, provided for in this Permit, may be implemented provided the Permittee notifies The United States Environmental Protection Agency (EPA) and the MassDEP at least fifteen (15) days in advance of the proposed changes and the Permittee provides the information required in 310 CMR 7.00: Appendix C(7)(b)3.

Any intra-facility change that does not qualify pursuant to 310 CMR 7.00: Appendix C(7)(b)2. is required to be submitted to the MassDEP pursuant to 310 CMR 7.00: Appendix B.

(b) Inter-facility emissions trading

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

All increases in emissions due to emissions trading, must be authorized under the applicable requirements of 310 CMR 7.00: Appendix B (the "Emissions Trading Program") and 42 U.S.C. §7401 et seq. (the "Act"), and provided for in this Permit.

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.

EU2, EU5

In accordance with Approval MBR-07-COM-004B, Condition VI.4., GE shall conduct a noise survey (during daytime and nighttime operation) in accordance with MassDEP procedures/guidelines within 270 days of the start-up of the modified test cells, while the test cells are in operation, to verify compliance with the MassDEP noise guidelines as contained in Application MBR-07-COM-004B, Transmittal No. W148264. Sources of noise, which should be addressed, include, but are not limited to: test cell exhaust (exhaust silencer), test cell air intake, and test cell enclosure (state-only requirement).

In accordance with Approval MBR-07-COM-004B, Condition XI. 2., GE shall conduct compliance testing within 18 months after initial start up of the modified test cells to demonstrate compliance with the NO_x, CO, VOC, and SO_2, in pounds per hour emission rates, as listed in Table 2 above. All compliance testing shall be witnessed by MassDEP personnel at a mutually agreeable time and date.

In accordance with Approval MBR-07-COM-004B, Condition XI. 3., GE must obtain MassDEP approval of an emissions test protocol. The protocol shall describe the test methods for NO_x, CO, VOC, and SO_2 compliance testing and procedures for testing at idle power level, M/C level, IRP level and MAX level; and contain a detailed description of sampling port locations, sampling equipment, and sampling and analytical procedures. It must be submitted to MassDEP at least 90 days prior to commencement of testing of the modified test cells.

In accordance with Approval MBR-07-COM-004B, Condition VI.4, submit to MassDEP a written report describing the results of the required noise survey within 60 days of its completion (state-only requirement).

In accordance with Approval MBR-07-COM-004B, Condition VII.3, GE shall submit Standard Operating and Maintenance Procedures (SOMP) as it relates to air emissions for the modified test cells to MassDEP no later than 30 days prior to commencement of operation of the modified facility. Thereafter, GE shall submit updated versions of the SOMP to MassDEP no later than 30 days prior to the occurrence of a significant change. MassDEP

must approve of significant changes to the SOMP prior to the SOMP becoming effective. The updated SOMP shall supersede prior versions of the SOMP.

In accordance with Approval MBR-07-COM-004B, Condition XI.4, GE shall submit a final emissions test report to MassDEP within 60 days of completion of the emissions testing program.

EU2, EU5, EU29-2HTR, EU29-5HTR

In accordance with Approval MBR-07-COM-004B, Condition VII.1, GE shall submit to the MassDEP, in accordance with the provisions of Regulation 310 CMR 7.02, plans and specifications as it relates to air emissions (excluding any and all engine confidential information) for the modifications to Test Cell Nos. 2 and 5 once the specific information has been determined, but in any case not later than 6 months after commencement of construction of the applicable modifications of the existing facility.

In accordance with Approval MBR-07-COM-004B, Condition XII.1, GE shall notify MassDEP, in writing, attention Permit Chief, Bureau of Waste Prevention, when the modification of the proposed equipment is complete and it is deemed ready for operation, within 14 days thereof.

EU81-CLEAN

In accordance with Approval MBR-08-IND-008, General Condition No. 11., the MassDEP must be notified in writing when the subject equipment has been installed and has been deemed ready for continuous operation, within fourteen (14) days thereof.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

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

10. COMPLIANCE CERTIFICATION

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

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

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

a. Annual Compliance Report and Certification

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

The compliance certification and report shall describe:

i. the terms and conditions of the permit that are the basis of the certification;
ii. the current compliance status and whether compliance was continuous or intermittent during the reporting period;
iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
iv. any additional information required by the MassDEP to determine the compliance status of the source.

b. Semi-Annual Monitoring Summary Report and Certification

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

The compliance certification and report shall describe:

i. the terms and conditions of the permit that are the basis of the certification;
ii. the current compliance status during the reporting period;
iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
iv. whether there were any deviations during the reporting period;
v. if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
vi. whether deviations in the reporting period were previously reported;
vii. if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
viii. if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
ix. any additional information required by the Department to determine the compliance status of the source.

11. NONCOMPLIANCE

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

12. PERMIT SHIELD

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

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

(b) The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, 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, 7.02(8)(i), 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A.

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

A Permittee shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

14. PERMIT TERM

This permit shall expire on the date specified on the cover page of this permit, which shall not be later than the date 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 the MassDEP 's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by the MassDEP on the renewal application.

In the event the MassDEP has not taken final action on the operating permit renewal application prior to this permit's expiration date, this permit shall remain in effect until the MassDEP takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

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

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

17. DUTY TO PROVIDE INFORMATION

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

18. DUTY TO SUPPLEMENT

The Permittee, upon becoming aware that any relevant facts were omitted or 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 the MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to the MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no other change in the permit is necessary and provided that a written agreement containing a

specific date for transfer of permit responsibility, coverage and liability between current and new Permittee, has been submitted to the MassDEP.

20. PROPERTY RIGHTS

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

21. INSPECTION AND ENTRY

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

(a) enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;

(b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

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

22. PERMIT AVAILABILITY

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

23. SEVERABILITY CLAUSE

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

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology 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 the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

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

25. PERMIT DEVIATION

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

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

- Unpermitted pollutant releases, excess emissions or opacity exceedances[3] measured directly by CEMS/COMS, by EPA reference methods

[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.

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

Deviations that were reported by telephone or fax within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations 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.

[3] Opacity excursions >27% that qualify as allowed under 310 CMR 7.06(1)(c)1.b. and 310 CMR 7.06(1)(c)1.c. shall not be considered deviations under the operating permit.

26. OPERATIONAL FLEXIBILITY

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

27. MODIFICATIONS

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

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

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

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

APPEAL CONDITIONS FOR OPERATING PERMIT

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

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

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

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

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

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

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

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