



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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RICHARD K. SULLIVAN JR.
Secretary

KENNETH L. KIMMELL
Commissioner

DATE STAMPED: Feb 10, 2012

Ms. Ida McDonnell, Manager
Air Permits, Toxics, and Indoor Air Unit
EPA - New England, Region 1
5 Post Office Square, Suite 100
Mail Code OEP05-2
Boston, Massachusetts 02109-3912

RE: FINAL OPERATING PERMIT RENEWAL

Application for: BWPAQ15
Application No.: MBR-95-OPP-003R
Transmittal No.: X223974

AT: Lowell Cogeneration Company Limited Partnership
282 Western Avenue, Lowell, Massachusetts

Dear Ms. McDonnell:

In accordance with 310 CMR 7.00 - APPENDIX C(6) of the Massachusetts Air Pollution Control Regulations ("the Regulations"), the Department of Environmental Protection ("MassDEP") is forwarding to EPA the attached Final Operating Permit Renewal for Lowell Cogeneration Company Limited Partnership located at 282 Western Avenue in Lowell, Massachusetts.

MassDEP published public notice of the Draft Operating Permit Renewal in the Lowell Sun on July 8, 2011 and in the Environmental Monitor on July 20, 2011, in accordance with the requirements of 310 CMR 7.00: Appendix C(6)(b). As such, the public comment period ended on August 22, 2011. During that period, a public hearing was not requested and no comments were received.

On October 26, 2011 MassDEP forwarded to EPA-New England, Region I, via electronic mail, the Proposed Operating Permit Renewal for this facility. In a letter dated November 22, 2011 Mr. Donald Dahl of EPA New England, Region I commented that: 310 CMR 7.70 requirements should be identified as State-only requirements in Table 3 of the Proposed Operating Permit Renewal; and that 42 U.S.C. 7401, §601 et seq. could contain applicable requirements and should be deleted from the Requirements not Currently Applicable contained in Table 7 of the Proposed Operating Permit Renewal. MassDEP has incorporated these changes into the attached Final Operating Permit Renewal. In addition, specific requirements from 310 CMR 7.32 "Massachusetts Clean

Air Interstate Rule (Mass CAIR)” have been incorporated into Tables 3, 4, 5, 6, and 8 of the Operating Permit Renewal.

The attached Final Operating Permit Renewal contains all of the Federal and State Air Pollution Control Requirements to which the facility is subject, and the terms and conditions for compliance with such applicable requirements.

Should you have any questions concerning this Final Operating Permit Renewal, please contact Susan McConnell at (978) 694-3292 at your earliest convenience.

Sincerely,

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

James E. Belsky
Regional Permit Chief
Bureau of Waste Prevention

copy: Board of Health, Lowell, MA
Fire Headquarters, Lowell, MA
City Hall, Lowell, MA
Metropolitan Area Planning Council, 60 Temple Place, Boston, MA 02111
MassDEP - NERO: Susan McConnell, Marc Altobelli, Mary Persky
Mr. Wesley Greig, Lowell Cogeneration Company L.P., 282 Western Avenue, Lowell, MA 01851
Mr. Steven Babcock, AMEC Massachusetts, Inc, 2 Robbins Road, Westford, MA 01886
Donald Dahl, USEPA – New England, (Electronic Transmission)
MassDEP- Boston: Yi Tian, Karen Regas, (Electronic Transmission)



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FINAL AIR QUALITY OPERATING PERMIT RENEWAL

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"]:

Lowell Cogeneration Company, L.P.
282 Western Avenue
Lowell, MA 01851

INFORMATION RELIED UPON:

Application No. MBR-95-OPP-003-R
Renewal Transmittal No. X223974
Initial Transmittal No. 96193

FACILITY LOCATION:

Lowell Cogeneration Company
Limited Partnership
282 Western Avenue
Lowell, MA 01851

FACILITY IDENTIFYING NUMBERS:

AQ ID NO. 1210265
FMF FAC NO. 53845
FMF RO NO. 162865

NATURE OF BUSINESS:

Electrical Power Generation

STANDARD INDUSTRIAL CODE (SIC):4961, 4911

**NORTH AMERICAN INDUSTRIAL
CLASSIFICATION SYSTEM (NAICS):** 221112, 221330

RESPONSIBLE OFFICIAL:

Name: Mr. Wesley Greig
Title: Plant Manager

FACILITY CONTACT PERSON:

Name: Mr. Wesley Greig
Title: Plant Manager
Phone: 978-453-9680
Email: WGreig@morrisenergy.com

This Operating Permit shall expire on Feb. 10, 2017 .

For the Department of Environmental Protection, Bureau of Waste Prevention

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

Feb. 10, 2012

James E. Belsky
Permit Chief

Date

This information is available in alternate format. Call Michelle Waters-Ekanem, Diversity Director, at 617-292-5751. TDD# 1-866-539-7622 or 1-617-574-6868
MassDEP Website: www.mass.gov/dep

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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

Lowell Cogeneration Company Limited Partnership (the "Permittee") operates an electric power generation facility located at 282 Western Avenue in Lowell, Massachusetts. This facility includes six combustion emission units including a combustion turbine (CT), a supplementary-fired Duct Burner (DB), two auxiliary boilers (B-1 and B2), one small boiler (B-3) for building heat, and an emergency fire pump engine (E-1). The Permittee also operates additional smaller equipment that has been classified as "Insignificant Activities" in this Operating Permit due to the fact that said equipment is not subject to any applicable air quality regulations or requirements. The Commonwealth of Massachusetts is classified as nonattainment for ozone. The facility has a potential to emit Nitrogen Oxides greater than 50 tons per year, thereby classifying it as a "major source" subject to the Operating Permit Program. The Permittee has provided calculations in its Operating Permit Renewal Application that show it does not have a potential to emit Hazardous Air Pollutants (HAPs) above major source thresholds. The facility is therefore not considered a major source of HAPs.

The facility was originally constructed to operate as a cogeneration facility to generate electricity and steam for sale under a power purchase agreement. *Due to changes in the market place, the facility now operates as an electric generating facility that provides dispatchable electricity to ISO-New England. The facility is subject to federal New Source Performance Standards at 40 CFR Part 60 Subpart GG for the combustion turbine, designated as CT, Subpart Db for the duct burner, designated as DB, and Subpart Dc for the two larger boilers, B-1 and B-2. Applicable NSPS requirements have been updated herein to reflect modifications to the NSPS regulations subsequent to the issuance of the initial Operating Permit to the Permittee. The facility is subject to National Emission Standards for Hazardous Air Pollutants (NESHAPS) for its emergency fire pump engine, a Reciprocating Internal Combustion Engine (RICE), at 40 CFR 63, Subpart ZZZZ. The facility is subject to the Area Source Boilers NESHAPS Rule for its two large boilers, B-1 and B-2, at 40 CFR Part 63, Subpart JJJJJ. The Permittee received a Prevention of Significant Deterioration (PSD) Permit from MassDEP in 1986 for the cogeneration units. The facility also received an oxides of nitrogen (NOx) Reasonably Available Control Technology (RACT) Approval from MassDEP for the cogeneration units and the two larger boilers, B-1 and B-2, since said units are subject to Regulation 310 CMR 7.19.*

Compliance Assurance Monitoring (CAM) requirements at 40 CFR Part 64 are applicable to the turbine since the turbine meets the three part applicability criteria for CAM: the turbine has federally applicable emission limits, it uses water injection (which is defined as a control device in 40 CFR Part 64) to meet an applicable NOx emission limit, and it has pre-controlled emissions equal to or greater than major source thresholds. Since the turbine is required to monitor emissions via a Continuous Emissions Monitoring System (CEMS) during periods of combined cycle operation, the CEMS satisfies the exemption requirements of CAM as a direct compliance monitor during periods of combined cycle operation. The CAM requirements contained in Tables 3 and 4 of this Operating Permit address the monitoring of fuel flow, water injection rates, and water to fuel ratios during periods of simple cycle operation where the turbine exhaust gas passes through a bypass stack that is not equipped with CEMS as a direct compliance monitor. Monitoring of water injection, fuel flow, and water to fuel ratios to determine compliance with NOx emissions is justified because the water injection reduces NOx and is the method used to comply with the applicable NOx limits. The Permittee has submitted data that shows that a water to fuel ratio during natural gas firing of at least 0.50 and a water to fuel ratio of 0.55 during distillate fuel oil firing is sufficient to meet the turbine's applicable NOx limits.

CAM requirements at 40 CFR Part 64 are not applicable to the DB because it does not meet all three parts of the applicability criteria for CAM: it does have applicable federally enforceable emission limits; however, in order to control NOx it uses low NOx burners which are not considered control devices for the purposes of 40 CFR Part 64, thereby precluding it from CAM requirements.

CAM requirements at 40 CFR Part 64 are not applicable to B-1 and B-2 since they do not meet all three parts of the applicability criteria for CAM: they do have applicable emission limits and they do use flue gas recirculation, which is defined as a control device in 40 CFR Part 64, to meet an applicable NOx emission limit; however they do not have pre-controlled emissions equal to or greater than major source thresholds, thereby precluding them from CAM requirements.

The owner/operator of Lowell Cogeneration Company Limited Partnership is subject to and shall comply with the Massachusetts Clean Air Interstate Rule (CAIR), 310 CMR 7.32, and has submitted a CAIR emission control application pursuant to 310 CMR 7.32(3).

Tables 3, 4, 5, 6, and 8 of this Operating Permit contain the air quality requirements and regulations to which the Permittee is subject. Table 7 of this Operating Permit contains air quality requirements to which the Permittee is not subject.

2. EMISSION UNIT IDENTIFICATION

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

TABLE 1			
EMISSION UNIT (EU)	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE (PCD)
CT	General Electric combustion turbine, Model #LM2500PE	225,000,000 Btu/hr Based on dry basis (without water injection) at 15 degrees Celsius (59 degrees Fahrenheit), sea level, and 60% relative humidity	Water injection (PCD-1)
DB	Vogt Duct Burner, Model #MSG (no fresh air firing)	135,000,000 Btu/hr	Low NOx burners (PCD-2)
B-1	Cleaver Brooks boiler, Model # D-68-E	59,540,000 Btu/hr	Flue gas recirculation (PCD-3) and low NOx burners (PCD-4)
B-2	Cleaver Brooks boiler, Model # D-68-E	59,540,000 Btu/hr	Flue gas recirculation (PCD-5) and low NOx burners (PCD-6)
B-3	Cleaver Brooks boiler, Model # CBH100HP	4,184,000 Btu/hr	None
E-1	Cummins V378F1 Emergency Fire Pump	798,000 Btu/hr	None

Btu/hr = British thermal units per hour

NOx = Nitrogen Oxides

3. IDENTIFICATION OF EXEMPT ACTIVITIES

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

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

4. APPLICABLE REQUIREMENTS

A. EMISSION LIMITS AND RESTRICTIONS

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

Table 3					
EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
CT ¹ , DB	Natural Gas	Simple or combined cycle	CO	0.054 lb/MMBtu	MBR-86-COM-083
		Simple Cycle	NO _x	65 ppmvd @ 15% O ₂	MBR-94-COM-039
		Combined Cycle		42 ppmvd @ 15% O ₂	
CT ¹ , DB	Diesel Fuel Oil	Turbine : 6,507,197 gallons per 12 month rolling calendar period (simple or combined cycle)	NA	NA	MBR-86-COM-083
		Turbine: 1,195,715 gallons per month (simple or combined cycle)			MBR-94-COM-039
		Simple or Combined Cycle	Sulfur in fuel	0.3% by weight	MBR-94-COM-039
		Combined Cycle	NO _x	65 ppmvd @ 15% O ₂	
	CO		50 ppmvd @ 15% O ₂		

Table 3

EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
		Simple Cycle	NOx	100 ppmvd @ 15% O ₂	
			CO	0.134 lb/MMBtu	MBR-86-COM-083
CT ¹ , DB	All Fuels	NA	NOx	ERC _{NOx} = (AcE _{NOx} -AIE _{NOx}) * (1.05/0.9) ERC _{NOx} ≤ 15 tons per year	310 CMR 7.00: Appendix B MBR-94-COM-039
			CO ₂	Hold CO ₂ allowances available for compliance ^{6,7}	Final Approval for Transmittal No. X007654 310 CMR 7.70(1)(e)3.a. (State-only)
				CO ₂ allowance transfers	Final Approval for Transmittal No. X007654 310 CMR 7.70(7) (State-only)
		NOx	NA	310 CMR 7.32	
		As of the allowance deadline for a control period, the owners and operators of each CAIR NO _x Ozone Season source and each CAIR NO _x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO _x Ozone Season allowances available for compliance deductions for the control period under 310 CMR 7.32(6)(e)1. in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO _x Ozone Season units at the source, as determined in accordance with 310 CMR 7.32(8).			

Table 3

EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
		NA	SO ₂	See Special Terms and Conditions Section 5 of this Permit	40 CFR Part 75
CT ¹	All Fuels	NA	Sulfur in fuel or SO ₂	0.8% by weight or < 0.015% by volume @ 15% O ₂ , dry basis	40 CFR 60.333(b) or 40 CFR 60.333(a) NSPS Subpart GG
			SO ₂	1.2 lb/MMBtu	310 CMR 7.22 ²
			NO _x	STD=0.0075{(14.4)Y}+F	40 CFR 60.332(a)(1)
			TSP	0.05 lb/MMBtu	MBR-86-COM-083
Supplemental firing of DB during combined cycle operation	All Fuels	Supplemental firing limited to 534,000,000,000 Btu per 12 month rolling calendar period	NA	NA	MBR-86-COM-083
		100,440,000,000 Btu per month			MBR-94-COM-039
		NA	TSP	0.10 lb/MMBtu	MBR-86-COM-083
			NO _x	0.10 lb/MMBtu	MBR-86-COM-083
				0.10 lb/MMBtu	40 CFR 60.44b(a)
			Opacity	≤ 20 % (6-minute average), except for one 6-minute period per hour of not more than 27 % ³	40 CFR 60.43b(f)
			SO ₂	See Special Terms and Conditions Section 5 of this Permit	40 CFR 60.42b(j)
				1.2 lb/MMBtu (annual calendar average)	310 CMR 7.22 ²
		Unit shall not operate in stand alone, "fresh air firing" mode	NA	NA	Operating Permit Renewal Application, Tr. No. X223974
		B-1, B-2	Natural Gas	NA	VOC
	0.01 lb/MMBtu				
PM	0.3 lb/hr				

Table 3

EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
				0.005 lb/MMBtu	
			SO ₂	0.06 lb/hr	
				0.001 lb/MMBtu	
			CO	4.5 lb/hr	
				0.075 lb/MMBtu	
			NO _x	3.0 lb/hr	
				0.05 lb/MMBtu	
	Ultra Low Sulfur Distillate Fuel Oil	See fuel oil restriction for B-1 and B-2 below	VOC	0.9 lb/hr	
				0.015 lb/MMBtu	
			PM	0.9 lb/hr	Operating Permit Renewal Application, Tr. No. X223974
				0.015 lb/MMBtu	
			Sulfur in fuel	0.0015% by weight	40 CFR 60.42c(d) & 60.42c(i)
				0.5 % by weight ⁴	
			SO ₂	0.09 lb/hr	Operating Permit Renewal Application, Tr. No. X223974
				0.0015 lb/MMBtu	
				0.50 lb/MMBtu ⁴	40 CFR 60.42c(d) & 60.42c(i)
			Opacity	< 20% (6-minute average), except one 6-minute period per hour of not more than 27%	40 CFR 60.43c(c) 40 CFR 60.43c(d)
			CO	2.3 lb/hr	MBR-95-COM-002
				0.039 lb/MMBtu	
			NO _x	6.0 lb/hr	
				0.10 lb/MMBtu	

Table 3

EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
B-1, B-2	Ultra Low Sulfur Distillate Fuel Oil	As required in § 63.11205, at all times operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.	HAP	NA	40 CFR Part 63, Subpart JJJJJ Compliance date: March 21, 2012
	Natural Gas and Ultra Low Sulfur Distillate Fuel Oil	<p>≤ 586,080 gallons ultra low sulfur transportation diesel fuel per 12 month rolling calendar period, both units combined</p> <p>≤ 293,040 gallons ultra low sulfur transportation diesel fuel per month, each unit</p>	NO _x	24.5 tons per 12 month rolling calendar period	MBR-95-COM-002
			SO ₂	0.28 tons per 12 month rolling calendar period	Operating Permit Renewal Application, Transmittal No. X223974
			CO	36.8 tons per 12 month rolling calendar period	MBR-95-COM-002
			PM	3.4 tons per 12 month rolling calendar period	Operating Permit Renewal Application, Transmittal No. X223974
			VOC	4.9 tons per 12 month rolling calendar period	MBR-95-COM-002
B-3	Natural Gas	NA	PM	0.10 lb/MMBtu	310 CMR7.02(8)(h)
E-1	Distillate Fuel Oil	Operation and maintenance checks and readiness testing is limited to no more than 100 hours per year	NA	NA	40 CFR Part 63 Subpart ZZZZ Section 63.6640(f)(1)(ii) Compliance date: May 3, 2013
Facility-Wide	All Fuels	NA	CO	95.0 tons per 12 month rolling calendar period	MBR-86-COM-083
				24.0 tons per month	MBR-94-COM-039

Table 3					
EU No.	Fuel/Raw Material	Restrictions	Pollutant	Emission Limit/Standard	Applicable Regulation and/or Approval Number
			Opacity	< 20 percent, except 20 to < 40 percent for \leq two (2) minutes during any one hour	310 CMR 7.06(1)(b)
			Smoke	< No. 1 of Chart ⁵ , except No. 1 to < No. 2 of Chart for \leq six (6) minutes during any one hour	310 CMR 7.06(1)(a)
			Green-house Gas ⁸	NA	310 CMR 7.71 (State only requirement)

Key to Table 3

TSP =	total suspended particulates
PM =	particulate matter
NO _x =	nitrogen oxides
ppmvd =	parts per million by volume, dry, adjusted to 15 percent oxygen
lb/MMBtu =	pounds per million British thermal units
STD =	allowable NO _x emissions (percent by volume at 15 percent oxygen on a dry basis)
Y =	manufacturer's rated heat rate at manufacturer's rated load (kilojoules per watt hour) or, actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.
F =	Correction Factor for fuel bound nitrogen as defined in 40 CFR 60.332.
O ₂ =	oxygen
CO =	carbon monoxide
SO ₂ =	sulfur dioxide
VOC =	volatile organic compounds
CFR =	Code of Federal Regulations
CMR =	Code of Massachusetts Regulations
Lb/hr =	pounds per hour
ERC =	Emission Reduction Credits
No. =	number
NA =	not applicable
% =	percent
\leq =	less than or equal to
< =	less than
@ =	at

- 1: The gas turbine's (CT) start up and shut down conditions which are a duration of less than one hour will not be calculated as an excess emission period, as referenced in Approval MBR-94-COM-039. Fuel usage restrictions are based on a heat content of 140,000 British thermal units per gallon.
- 2: Compliance with 310 CMR 7.05 for sulfur limit of Nos. 2 fuel oil shall be deemed compliance with the SO₂ limit under 310 CMR 7.22. The provisions of 310 CMR 7.22 are state only requirements. Compliance with the emission limit(s) shall be based on an annual calendar averaging time.
- 3: In accordance with 40 CFR 60.43b(g), 60.46b(a), and 60.43c(d), the opacity standards apply at all times except during periods of startup, shutdown or malfunction.
- 4: In accordance with 40 CFR 60.42c(i), the SO₂ emission limits and fuel oil sulfur limits apply at all times.

5. Chart means the Ringelmann Scale for grading the density of smoke, as published by the United States Bureau of Mines and as referred to in the Bureau of Mines Information Circular No. 8333, or any smoke inspection guide approved by MassDEP.
6. Compliance with CO₂ allowances shall be based on the control period. The control period is a three-calendar-year time period, unless extended to four years upon occurrence of a stage two trigger event. Control period and stage two trigger event are defined at 310 CMR 7.70(1)(b).
7. Hold CO₂ allowances available for compliance deductions under 310 CMR 7.70(6)(e), as of the CO₂ allowance transfer deadline, in the source's compliance account in an amount not less than the total CO₂ emissions for the control period from all CO₂ budget units at the source, as determined in accordance with 310 CMR 7.70(6) and (8).
8. Greenhouse Gas means any chemical or physical substance that is emitted into the air and that the MassDEP may reasonably anticipate will cause or contribute to climate change including, but not limited to, CO₂, CH₄, N₂O, SF₆, hydrofluorocarbons (HFCs), and perfluorocarbons(PFCs).

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 applicable requirements contained in Table 3.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
B-1, B-2	1. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2. and 40 CFR 60.48c(g) incorporated herein by reference, monitor for each unit the type and amount of fuel combusted during each day.
	2. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor the cumulative fuel usage of B-1 and B-2 on a monthly as well as twelve month rolling calendar period basis to verify that the units do not exceed the monthly and twelve month rolling calendar period fuel oil usage restrictions contained in Table 3 of this Permit.
	3. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor the sulfur content in the fuel oil.
	4. Conduct applicable performance tests in accordance with 40 CFR 60.48c(b).
	5. Compliance with the fuel oil sulfur limits under 40 CFR 60.42c may be determined based on a certification from the fuel supplier as provided in 40 CFR 60.42c(h) incorporated herein by reference. As provided by 40 CFR 60.48c(e)(11), said certification shall include the name of the oil supplier and a statement from the oil supplier that the oil complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils" incorporated herein by reference.
	6. In accordance with 40 CFR 60.44c(h), performance tests shall consist of certification from the fuel supplier as described under § 60.48c(f).
	7. Conduct opacity performance tests as requested by MassDEP or EPA using Method 9 (six minute average of 24 observations) as provided in 40 CFR 60.45c(a) incorporated herein by reference.
	8. As required in § 63.11201 and Table 2 to Subpart JJJJJ, conduct tune-up of boiler biennially as specified in § 63.11223(b)(1) through (7). In accordance with 40 CFR Part 63, Subpart JJJJJ, §63.11223(b)(5), measure the concentration in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the required biennial tune-up.
CT	9. Operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. The system shall be accurate to within +/- 5.0 % and shall be approved by MassDEP and EPA as provided in 40 CFR 60.334(a) incorporated herein by reference.
	10. As referenced in Approval MBR-94-COM-039, Proviso No. V.a., demonstrate compliance with applicable NOx and CO emission standards by operating and maintaining its continuous emission monitoring system (CEMS) as required by Regulation 310 CMR 7.19(13)(b) for combined cycle combustion operation as referenced in 310 CMR 7.19(10)(a)5.
	11. Fuel sampling shall be performed to show that the sulfur content of natural gas does not exceed 20 grains/100 standard cubic feet. At a minimum, the amount of fuel sampling data specified in Section 2.3.1.4 or 2.3.2.4 of 40 CFR Part 75 Appendix D is required as referenced in 40 CFR60.334(h)(3)(ii).
	12. Fuel sampling for fuel oil shall be performed in accordance with procedures specified in Section 2.2.3 or 2.2.4.1 through 2.2.4.3 of 40 CFR Part 75 Appendix D is required as referenced in 40 CFR60.334(i)(1).
CT	13. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor Nitrogen Oxides excess emissions as defined in 40 CFR60.334(j) and incorporated herein by reference.
	14. Comply with the sulfur and nitrogen content monitoring in accordance with 40 CFR 60, Subpart GG, 60.334(h)and (i).
	15. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor each period during which the ice fog exemption provided in 40 CFR 60, Subpart GG, Sec. 60.332(f) is in effect.
	16. Pursuant to MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor each period during which the emergency fuel exemption provided in 40 CFR 60, Subpart GG, Sec. 60.332(k) is in effect.

Table 4

EU#	MONITORING/TESTING REQUIREMENTS
	<p>17. In accordance with 40 CFR 60.7(b), incorporated herein by reference, monitor the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.</p> <p>18. In accordance with 40 CFR 60.334(i), monitor any daily period during which the sulfur content of the fuel being fired exceeds 0.8%.</p> <p>19. Comply with the test methods and procedures contained in 40 CFR Part 60, Subpart GG, Section 60.335.</p> <p>20. Comply with 40 CFR 64.3(a)(1), by continuously monitoring the following: water injection rate, fuel flow rate, and water to fuel ratio.</p> <p>21. For water to fuel monitoring, comply with the monitoring design criteria at 40 CFR 64.3(a)(2) and 40 CFR 64.3(a)(3) by continuously monitoring that the water to fuel ratio does not fall below the required minimum water to fuel ratio of 0.50 when firing natural gas in Simple Cycle mode and does not fall below the required minimum water to fuel ratio of 0.55 when firing diesel fuel oil in Simple Cycle mode.</p> <p>22. For water to fuel ratio monitoring, comply with the quality assurance and control practices at 40 CFR 64.3(b)(3) by calibrating at a frequency in accordance with the manufacturer's specifications or at least annually, whichever is more frequent, both the water flow meter and the fuel flow meter such that they are each maintained in an operating condition that is accurate to within +/- 5%.</p> <p>23. Comply with the data collection frequency and averaging requirements at 40 CFR 64.3(b)(4) by continuously monitoring the water injection rate, fuel flow rate, water to fuel ratio, and by averaging the water to fuel ratio over each hour.</p> <p>24. Calibrate, maintain, and operate all monitoring instrumentation using procedures that take into account manufacturer's specifications and comply with all applicable monitoring requirements contained in 40 CFR Part 64 in its entirety, incorporated herein by reference.</p>
<p align="center">CT, DB</p>	<p>25. Utilize an opacity monitor which shall remain operational and in good repair at all times as referenced in Approval MBR-86-COM-083, Proviso No. 9.</p> <p>26. For a period of the five most recent years, monitor all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each continuous emission monitor as referenced in Approval MBR-94-COM-039, Proviso No. III.a.</p> <p>27. Obtain certification from the fuel supplier for each shipment of No. 2 fuel oil that includes the following information: 1) the name of the oil supplier; 2) the nitrogen content of each oil shipment; 3) the location where the sample was drawn for analysis to determine the nitrogen content of the oil as referenced in Approval MBR-94-COM-039, Proviso No. III.c and the sulfur content of each shipment as referenced in Operating Permit Renewal Application, Transmittal No. X223974.</p> <p>28. Comply with all applicable monitoring requirements contained in 40 CFR 60, 40 CFR Part 64, 40 CFR 72, 40 CFR 75, 310 CMR 7.70 and 310 CMR 7.32.</p>
<p align="center">CT, DB</p>	<p>29. Measure for each unit on a daily basis the following items: type of fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual hours of operation and maximum fuel firing rates. In addition monitor the allowable NO_x emissions (AIE_{NO_x}) in pounds per day, the NO_x actual emission (AcE_{NO_x}) in pounds per day, and the quantity of federally enforceable emission reduction credits (ERC) required to be purchased from sources of NO_x ERCs certified by MassDEP under 310 CMR 7.00: Appendix B, the entity from which NO_x ERCs were purchased, and the date the NO_x ERCs were purchased as referenced in Approval MBR-94-COM-039, Proviso III.b.</p> <p>30. In accordance with 40 CFR Part 75, use the substitution procedures for missing data to determine compliance with 40 CFR Part 75, and 310 CMR 7.32 whenever CEMS fail to measure a valid quality-assured hour of data.</p> <p>31. As referenced in Approval MBR-94-COM-039, Proviso No. II.a., perform daily calculations according to the equation below in order to determine the quantity of ERCs needed to comply with the emission limit in Table 3 of this Permit: $ERC_{NO_x}(\text{needed}) = (AcE_{NO_x} - AIE_{NO_x}) * 1.05/0.9$ Please see Section 5 Special Conditions of this Permit.</p>

Table 4

EU#	MONITORING/TESTING REQUIREMENTS
	<p>32. In accordance with 310 CMR 7.70(8)(a)1.a. and Final Approval for Transmittal No. X007654, install all monitoring systems necessary to monitor CO₂ mass emissions in accordance with 40 CFR Part 75, except equation G-1 in Appendix G shall not be used to determine CO₂ emissions under 310 CMR 7.70(8) (State only requirement).</p> <p>33. In accordance with 310 CMR 7.70(8)(a)2.a. and Final Approval for Transmittal No. X007654, each CO₂ budget unit that commenced commercial operation before July 1, 2008, must be in compliance with the requirements of 310 CMR 7.70(8) by January 1, 2009 (State only requirement).</p> <p>34. In accordance with 310 CMR 7.70(8)(h)1. and Final Approval for Transmittal No. X007654, submit to the MassDEP or its agent net electrical output (State only requirement).</p> <p>35. In accordance with 310 CMR 7.70(8)(h)4.a. and Final Approval for Transmittal No. X007654, the billing meter shall record the electric output (State only requirement).</p> <p>36. In accordance with 310 CMR 7.70(8)(h)5.c. and Final Approval for Transmittal No. X007654, when a component of output measurement equipment fails to pass an accuracy test, all data shall be replaced by either zero or an output value that is approved as part of the monitoring plan required under 310 CMR 7.70(8)(h)3. until the component passes an accuracy test or is replaced with another piece of equipment that passes the accuracy test (State only requirement).</p> <p>37. In accordance with 310 CMR 7.32, monitor and test as required by the Massachusetts Clean Air Interstate Rule (CAIR).</p>
DB	<p>38. Monitor the compliance status of opacity emissions in accordance with 40 CFR 60.46b(d).</p> <p>39. In accordance with 40 CFR 60.48b(a) and 60.48b(e), install, calibrate, maintain and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere.</p> <p>40. In accordance with 40 CFR 60.45b(j) and 60.47b(f), a facility that combusts very low sulfur oil is not subject to the compliance and performance testing requirements for sulfur dioxide if the owner or operator obtains fuel receipts as described in 40 CFR 60.49b(r).</p>
B-1, B-2, CT, DB	<p>41. In accordance with 310 CMR 7.04(2)(a), operate continuously and maintain in an accurate operating condition smoke density indicators equipped with audible alarms and recorders that signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., the use of Continuous Opacity Monitoring Systems (COMS) equipped with audible alarms and recorders that signal the need for combustion equipment adjustment or repair when the opacity is equal to or greater than 20 percent shall constitute compliance with this requirement.</p>
B-1, B-2, B-3, DB	<p>42. Inspect and maintain each fuel utilization facility, having a heat input of ≥ 3 MMBtu/hr, in accordance with manufacturer's recommendations and test for efficient operation at least once in each calendar year as provided in 310 CMR 7.04(4)(a) incorporated herein by reference.</p>
E-1	<p>43. Monitor operations to ensure compliance with applicable sections of 40 CFR Part 63, Subpart ZZZZ, as included in Tables 5 and 6 and the Special Terms and Conditions of this Permit.</p> <p>44. On or before the applicable compliance date of May 3, 2013, as referenced in 40 CFR Part 63, Subpart ZZZZ, Section 63.6625(f) install a non-resettable hour meter if one is not already installed on the subject reciprocating internal combustion engine (RICE).</p> <p>45. Monitor operations, on or after the applicable compliance date of May 3, 2013, to ensure compliance with 40 CFR Part 63, Subpart ZZZZ Section 63.6640 (f)(1)(ii). As referenced in 40 CFR Part 63, Subpart ZZZZ Section 63.6640 (f)(1)(ii), and incorporated herein by reference, you may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.</p>
Facility-wide	<p>46. Pursuant to MassDEP's authority through 310 CMR .7.00 Appendix C(9)(b)2., monitor facility operations to ensure compliance with the emission limits and/or restrictions in Table 3 of this Permit.</p> <p>47. In accordance with 310 CMR 7.00: Appendix C(9)(b)2., monitor any occurrences when visible emissions (opacity and/or smoke exclusive of uncombined water) and emission rates of NO_x and CO are in excess of the emission limits/standards contained in Table 3 of this Permit.</p>

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
	<p>48. In accordance with 310 CMR 7.13(1), any person owning, leasing, operating or controlling a facility for which MassDEP has determined that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisos shall cause such stack testing:</p> <p>(a) to be conducted by a person knowledgeable in stack testing,</p> <p>(b) to be conducted in accordance with procedures contained in a test protocol which has been approved by MassDEP, and</p> <p>(c) to be conducted in the presence of a representative of MassDEP when such is deemed necessary.</p> <p>Conduct any other testing or testing methodology if and when requested by MassDEP or EPA.</p>
	<p>49. Monitor operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.</p>
	<p>50. In accordance with 310 CMR 7.71(1) and Appendix C(9) establish and maintain data systems or record keeping practices (e.g. fuel use records, SF6 usage documentation, Continuous Emissions Monitoring System) for greenhouse gas emissions to ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c. 298, § 6 (State only requirement).</p>

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
B-1, B-2	<p>1. Maintain records, for a period of the five most recent years, of the cumulative fuel usage of B-1 and B-2 on a monthly as well as twelve month rolling calendar period to verify that the units do not exceed the monthly and twelve month rolling calendar period fuel oil usage restrictions, as referenced in Final Approval MBR-95-COM-002, Proviso No. 5 .</p>
	<p>2. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2 maintain records, for a period of the five most recent years, of the sulfur content of the fuel oil combusted to determine the compliance status with Final Approval MBR-95-COM-002, Proviso No. 6 and Table 3 of this Operating Permit.</p>
	<p>3. Maintain records, for a period of the five most recent years, of the results from opacity observations as provided in 40 CFR 60.11(e)(2) incorporated herein by reference.</p>
	<p>4. In accordance with 40 CFR 60.42c (h), maintain records of the oil analysis certification forms received from fuel suppliers.</p>
	<p>5. Maintain records of performance testing conducted in accordance with 40 CFR 60.48c(b).</p>
	<p>6. Maintain records of fuel oil sulfur in accordance with 40 CFR 60.48c(d).</p>
	<p>7. Maintain records of fuel oil sulfur in accordance with 40.CFR 60.48c(e)(11).</p>
	<p>8. Maintain records of the fuel supplier's certification in accordance with 40 CFR 60.48c(f).</p>
	<p>9. In accordance with 40 CFR 60.48c(g), maintain records of the amounts of each fuel combusted during each day.</p>

Table 5

EU#	RECORD KEEPING REQUIREMENTS
	<p>10. In accordance with 40 CFR 60.48c(i), maintain all records required under this section for a period of two years following the date of such record. Compliance with 310 CMR 7.00:Appendix C(10)(b), maintaining records for a period of five years, shall constitute compliance with 40 CFR 60.48c(i).</p> <p>11. In accordance with 40 CFR Part 63.11225(c)(1) and as required in §63.10(b)(2)(xiv), keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.</p> <p>12. In accordance with 40 CFR Part 63.11225(c)(2)(i), keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11214. Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.</p> <p>13. In accordance with 40 CFR Part 63.11225(c)(2)(ii), keep records documenting the fuel type(s) used monthly by each boiler, including, but not limited to, a description of the fuel, including whether the fuel has received a non-waste determination by you or EPA, and the total fuel usage amount with units of measure.</p> <p>14. In accordance with 40 CFR Part 63.11225(c)(4), keep records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.</p> <p>15. In accordance with 40 CFR Part 63.11225(c)(5), keep records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.</p>
B-1, B-2	<p>16. In accordance with 40 CFR Part 63.11225(d), records must be in a form suitable and readily available for expeditious review, according to §63.10(b)(1). As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each recorded action. You must keep each record onsite for at least 2 years after the date of each recorded action according to §63.10(b)(1). You may keep the records off site for the remaining 3 years.</p> <p>17. In accordance with 40 CFR 63.11223(b)(6), maintain and submit, if requested by the Administrator, biennial report containing the information in paragraphs 36.11223(b)(6)(i) through (iii). Said records include: (i) the concentration in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the required biennial tune-up, (ii) A description of any corrective action taken as a part of the tune-up of the boiler(s), and (iii) The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler(s).</p>
CT	<p>18. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2., maintain a record of Nitrogen Oxides excess emissions as defined in 40 CFR 60.334(j) and incorporated herein by reference.</p> <p>19. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2., maintain a record of any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.</p> <p>20. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2., maintain a record of each period during which the ice fog exemption provided in Sec. 60.332(f) is in effect.</p> <p>21. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2., maintain a record of each period during which the emergency fuel exemption provided in Sec. 60.332(k) is in effect.</p> <p>22. In accordance with 40 CFR 60.7(f), incorporated herein by reference, maintain a record of information required in a permanent form suitable for inspection.</p> <p>23. In accordance with 40 CFR 60.7(b), incorporated herein by reference, maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.</p> <p>24. Comply with the record keeping requirements associated with 40 CFR 60, Subpart GG, 60.334(h) and (i) by maintaining records of the following: water injection rate in units of gallons per minute, fuel flow rate in units of gallons per minute, water to fuel ratio, and nitrogen content of the fuel oil used in units of % nitrogen by weight, and the dates of calibration of both the water flow meter and the fuel flow meter.</p>

Table 5

EU#	RECORD KEEPING REQUIREMENTS
	<p>25. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain records of the following: water injection rate, fuel flow rate, water to fuel ratio, and nitrogen content of the fuel oil used in units of % nitrogen by weight.</p> <p>26. Maintain a record of the sulfur content of the fuel being fired in the turbine sampled in accordance with procedures specified in section 2.3.1.4 or 2.3.2.4 of 40 CFR 75 Appendix D for natural gas (40 CFR 60.334(h)(3)(ii)), and in accordance with procedures specified in accordance with section 2.2.3, or 2.2.4.1 thru 2.2.4.3 of 40 CFR 75 for fuel oil (40 CFR 60.334(i)(1)).</p> <p>27. Maintain a record of the water injection rate, fuel flow rate, and water to fuel ratio continuously measured in accordance with 40 CFR 64.3(a)(1).</p>
<p>CT, DB</p>	<p>28. For a period of the five most recent years, maintain operating and maintenance logbooks, or equivalent record keeping system, for each unit as referenced in Approval MBR-86-COM-083, Proviso No. 5. Said logbook, or equivalent record keeping system shall contain the following:</p> <ul style="list-style-type: none"> a) hours of operation of each unit including startup and shutdowns; b) all maintenance performed on the turbine, DB, water injection system, and all required continuous emission monitoring devices; c) all calibration of all continuous emissions and other monitoring devices; d) all fuel purchase order receipts. <p>29. For a period of the five most recent years, maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each continuous emission monitor as referenced in Approval MBR-94-COM-039, Proviso No. III.a.</p> <p>30. Maintain daily records and certification reports in a permanently bound logbook or equivalent system and maintained on site for a period of the five most recent years as referenced in Approval MBR-94-COM-039, Proviso No. III.e.</p> <p>31. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain a record of certification from the fuel supplier for each shipment of No. 2 fuel oil that includes the following information: 1) the name of the oil supplier; 2) the nitrogen content of each oil shipment; 3) the location where the sample was drawn for analysis to determine the nitrogen content of the oil, and 4) the sulfur content of the oil as referenced in Renewal OP Application, Transmittal No. X223974.</p> <p>32. Record on a continuous basis emissions of NO_x, SO₂, CO₂ and diluent in accordance with the requirements of 40 CFR Part 75.</p> <p>33. Record all necessary information required to determine NO_x, CO₂ and SO₂ emissions and heat input in accordance with the requirements of 40 CFR Part 75.</p> <p>34. In accordance with 40 CFR Part 75, maintain records of all measurements, performance evaluations, calibration checks, maintenance, and adjustments for each CEM.</p> <p>35. Comply with all applicable record keeping requirements contained in 40 CFR 60, 40 CFR 72, 40 CFR 75, 310 CMR 7.70, and 310 CMR 7.32.</p> <p>36. Record for each unit on a daily basis the following items: type of fuel(s) burned each day, heat content of each fuel, the total heating value of the fuel consumed for each day, the actual hours of operation and maximum fuel firing rates. In addition monitor the allowable NO_x emissions (AIE_{NO_x}) in pounds per day, the NO_x actual emission (AcE_{NO_x}) in pounds per day, and the quantity of federally enforceable emission reduction credits (ERC) required to be purchased from sources of NO_x ERCs certified by MassDEP under 310 CMR 7.00: Appendix B, the entity from which NO_x ERCs were purchased, and the date the NO_x ERCs were purchased as referenced in Approval MBR-94-COM-039, Proviso III.b.</p> <p>37. In accordance with 310 CMR 7.70(8)(e)1. and Final Approval for Transmittal No. X007654, comply with all record keeping and reporting requirements in 310 CMR 7.70(8)(e), with all applicable record keeping and reporting requirements under 40 CFR 75.73, and with the requirements of 310 CMR 7.70(2)(a)5 (State only requirement).</p>

Table 5

EU#	RECORD KEEPING REQUIREMENTS
	38. In accordance with 310 CMR 7.70(8)(h)6.a. and Final Approval for Transmittal No. X007654, comply with all output record keeping and reporting requirements in 310 CMR 7.70(8)(h) and with the requirements of 310 CMR 7.70(1)(e)5. and (2)(a)5 (State only requirement).
	39. In accordance with 310 CMR 7.32, maintain records as required by the Massachusetts Clean Air Interstate Rule (CAIR).
DB	40. In accordance with 310 CMR 7.70(8)(h)6.b. and Final Approval for Transmittal No. X007654, retain data used to monitor, determine, or calculate net generation for ten years from the date reported (State only requirement).
	41. In accordance with 40 CFR 60.49b(f), maintain opacity records.
	42. In accordance with 40 CFR 60.42b(j)(2), maintain fuel receipts from the fuel supplier which certify that the oil meets the definition of very low sulfur fuel oil.
	43. 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 distillate oil and natural gas. 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.
	44. In accordance with 40 CFR 60.49b(o), maintain records for the affected facility for a period of two years following the date of such record. Compliance with 310 CMR 7.00:Appendix C(10)(b), maintaining records for a period of five years, shall constitute compliance with 40 CFR 60.49b(o).
B-1, B-2, CT, DB	45. In accordance with 310 CMR 7.04(2)(a), maintain records of Smoke Density Indicator Recording Charts. The keeping of COMS records shall constitute compliance with this requirement.
B-1, B-2, B-3, DB	46. The results of the required inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the facility as provided in 310 CMR 7.04(4)(a) incorporated herein by reference.
E-1	47. Pursuant to MassDEP's authority through 310 CMR 7.00:Appendix C(9)(b)2, maintain records so that compliance with the reporting requirements in Table 6 of this Permit can be maintained.
	48. On or after the applicable compliance date of May 3, 2013, as referenced in 63.6655(e) and incorporated herein by reference, keep records of the maintenance conducted on the stationary RICE. Please see Special Terms and Conditions of this Permit.
	49. On or after the applicable compliance date of May 3, 2013, as referenced in 63.6655(f) and incorporated herein by reference, keep records of the hours of operation of the subject EU that is recorded through the non-resettable hour meter.
Facility-wide	50. Maintain all records in a permanently bound log book or any other form acceptable to MassDEP for a period of five years as provided in 310 CMR 7.19(13)(d)8 incorporated herein by reference.
	51. Pursuant to MassDEP's authority through 310 CMR 7.00 Appendix C(9)(b)2., maintain on-site, at all times, a copy of the Standard Operating and Maintenance Procedure (SOMP) for the facility.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
Facility-wide	<p>52. As provided in 310 CMR 7.00:Appendix C(10)(b) incorporated herein by reference, maintain records of all monitoring data and supporting information on site for a period of at least five (5) years from the date of the monitoring sample, measurement, report, and Operating Permit Renewal Application. Supporting information includes at a minimum, all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Operating Permit, and any other information required to interpret the monitoring data. Records required to be maintained shall include, where applicable:</p> <ol style="list-style-type: none"> 1. The date, place as defined in the Permit, and time of sampling or measurements; 2. The date(s) analyses were performed; 3. The company or entity that performed the analyses; 4. The analytical techniques or methods used; 5. The results of such analyses; and 6. The operating conditions as existing at the time of sampling or measurement.
	<p>53. Maintain records for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12. Copies of the Source Registration/Emission Statements shall be retained by the facility owner or operator for five years from the date of submittal.</p>
	<p>54. Maintain records for a period of the most recent five year s as required in 310 CMR 7.00: Appendix C (10)(b).</p>
	<p>55. In accordance with 310 CMR 7.71 (6) b. and c. retain at the facility for five years and make available to MassDEP upon request copies of the documentation of the methodology and data used to quantify emissions (State only requirement).</p>

Table 6	
EU#	REPORTING REQUIREMENTS
B-1, B-2	<p>1. In accordance with 40 CFR 60.48c(b), submit to the Administrator and to MassDEP, attention BWP Permit Chief, the performance test data.</p>
	<p>2. Submit reports every six months postmarked by the 30th day following the end of each reporting period to MassDEP and EPA as provided in 40 CFR 60.48c(d) and 40 CFR 60.48c(j) incorporated herein by reference. In addition to records of fuel supplier certification, the report shall include a certified statement signed by the owner or operator that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter as provided in 40 CFR 60.48c(e)(11).</p>
	<p>3. In accordance with 40 CFR Part 63.11225(a)(1) and (2), and as specified in § 63.9(b)(2), submit the initial notification no later than 120 calendar days after May 20, 2011 or within 120 days after the source becomes subject to the standard.</p>

Table 6

EU#	REPORTING REQUIREMENTS
B-1, B-2	<p>4. In accordance with 40 CFR Part 63.11225(a)(4), submit the Notification of Compliance Status in accordance with §63.9(h) no later than 120 days after the applicable compliance date specified in §63.11196. In addition to the information required in §63.9(h)(2), your notification must include the following certification(s) of compliance, as applicable, and be signed by a responsible official:</p> <p>(i) “This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler.”</p> <p>(ii) “This facility has had an energy assessment performed according to §63.11214(c).”</p> <p>(iii) For an owner or operator that installs bag leak detection systems: “This facility has prepared a bag leak detection system monitoring plan in accordance with §63.11224 and will operate each bag leak detection system according to the plan.”</p> <p>(iv) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: “No secondary materials that are solid waste were combusted in any affected unit.”</p> <p>5. In accordance with 40 CFR Part 63.11214(c), submit a signed certification in the Notification of Compliance Status report that an energy assessment was completed and submit, upon request, the energy assessment report.</p> <p>6. In accordance with 40 CFR Part 63.11225(b), prepare by March 1 of every other year, and submit to the delegated authority upon request, a biennial compliance certification report for the previous two calendar year period containing the information specified in paragraphs (b)(1) through (4) of this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of said section.</p> <p>(i) Company name and address.</p> <p>(ii) Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart.</p> <p>(iii) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.</p> <p>(iv) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by you or EPA through a petition process to be a non-waste under §241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of §241.3, and the total fuel usage amount with units of measure.</p>
CT	<p>7. For the purpose of reports required under Sec. 60.7(c), periods of excess emissions that shall be reported are defined in 40 CFR 60.334 and incorporated herein by reference.</p> <ul style="list-style-type: none"> • Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent. • Ice fog. Each period during which an exemption provided in Sec. 60.332(f) is in effect shall be reported in writing to the Administrator quarterly. For each period the ambient conditions existing during the period, the date and time the air pollution control system was deactivated, and the date and time the air pollution control system was reactivated shall be reported. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. • Emergency fuel. Each period during which an exemption provided in Sec. 60.332(k) is in effect shall be included in the report required in Sec. 60.7(c). For each period, the type, reasons, and duration of the firing of the emergency fuel shall be reported. <p>8. In accordance with 40 CFR 60.8(d) incorporated herein by reference, provide the Administrator at least 30 days prior notice of any performance test.</p> <p>9. In accordance with 40 CFR 60.8(a) incorporated herein by reference, furnish a written report of the results of performance test(s) to the Administrator.</p>

Table 6

EU#	REPORTING REQUIREMENTS
CT, DB	<p>10. Submit the following information to MassDEP on a monthly basis:</p> <ul style="list-style-type: none"> a) all continuous emission monitoring reports; b) the amount of No. 2 fuel oil burned in each unit; c) the amount of natural gas burned in each unit; and d) the capacity of the fuel flow rates of the turbine and the duct burner per hour of operation. <p>These reports shall be submitted within 15 days of the end of the month for which the report covers. All reports to MassDEP shall be based on the lower heating value of the fuel used as referenced in Approval MBR-86-COM-083, Proviso No. 4.</p>
	<p>11. Comply with all applicable reporting requirements contained in 40 CFR 60, 40 CFR 72, 40 CFR 75, and 310 CMR 7.32.</p>
	<p>12. Submit to MassDEP's Northeast Regional Office by the 30th day of April, July, October, and January of each calendar year, a report showing the allowable NO_x emissions (AIE_{NO_x}) in pounds per day, the NO_x actual emissions (AcE_{NO_x}) in pounds per day, and the quantity of federally enforceable emission reduction credits (ERC) required to be purchased from sources of NO_x ERCs certified by MassDEP under 310 CMR 7.00: Appendix B, the entity from which NO_x ERCs were purchased, and the date the NO_x ERCs were purchased as referenced in Approval MBR-94-COM-039, Proviso IV.b.</p>
	<p>13. 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.</p>
	<p>14. In accordance with 310 CMR 7.70(2)(a)5. and Final Approval for Transmittal No. X007654, each submission under the CO₂ Budget Trading Program shall be submitted, signed, and certified by the CO₂ authorized account representative (State only requirement).</p>
	<p>15. In accordance with 310 CMR 7.70(4)(a) and Final Approval for Transmittal No. X007654, for each control period in which a CO₂ budget source is subject to the CO₂ requirements of 310 CMR 7.70(1)(e)3., submit to the MassDEP by the March 1 following the relevant control period, a compliance certification report to this Office. The compliance certification shall contain, at a minimum, the items listed in 310 CMR 7.70(4)(a)2. and 3 (State only requirement).</p>
CT, DB	<p>16. In accordance with 310 CMR 7.70(6)(c) and Final Approval for Transmittal No. X007654, following the establishment of a CO₂ Allowance Tracking System account, all submissions to the MassDEP or its agent pertaining to the account, shall be made only by the CO₂ authorized account representative for the account (State only requirement).</p>
	<p>17. In accordance with 310 CMR 7.70(8)(d) and Final Approval for Transmittal No. X007654, the CO₂ authorized account representative shall submit written notifications to the MassDEP and the Administrator in accordance with 40 CFR 75.61 (State only requirement).</p>
	<p>18. In accordance with 310 CMR 7.70(8)(e)1. and Final Approval for Transmittal No. X007654, comply with all recordkeeping and reporting requirements in 310 CMR 7.70(8)(e), the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of 310 CMR 7.70(2)(a)5 (State only requirement).</p>
	<p>19. In accordance with 310 CMR 7.70(8)(e)4.a.i. and Final Approval for Transmittal No. X007654, report the CO₂ mass emissions data for the CO₂ budget unit that commenced commercial operation before July 1, 2008, in an electronic format prescribed by the Administrator, unless otherwise prescribed by the MassDEP, for each calendar quarter beginning with the calendar quarter covering January 1, 2009 through March 31, 2009 (State only requirement).</p>
	<p>20. In accordance with 310 CMR 7.70(8)(e)4.c. and Final Approval for Transmittal No. X007654, submit to the MassDEP or its agent a compliance certification in support of each quarterly report (State only requirement).</p>
	<p>21. In accordance with 310 CMR 7.70(8)(h)6.a. and Final Approval for Transmittal No. X007654, comply with all output recordkeeping and reporting requirements in 310 CMR 7.70(8)(h) and with the requirements of 310 CMR 7.70(1)(e)5. and (2)(a)5 (State only requirement).</p>
	<p>22. In accordance with 310 CMR 7.70(8)(h)6.c. and Final Approval for Transmittal No. X007654, submit annual output reports in a spreadsheet both electronically and in hardcopy by March 1 for the immediately preceding calendar year to this Office or the MassDEP's agent (State only requirement).</p>
<p>23. In accordance with 310 CMR 7.32, submit reports as required by the Massachusetts Clean Air Interstate Rule (CAIR).</p>	

Table 6

EU#	REPORTING REQUIREMENTS
DB	24. In accordance with 40 CFR 60.49b(h), submit excess emission reports for opacity every six months.
	25. In accordance with 40 CFR 60.49b(r) and (s), reports shall be submitted to the Administrator and MassDEP, within 30 days of the end of the reporting period, certifying that only very low sulfur oil was combusted during the reporting period.
	26. Comply with all applicable reporting requirements contained in 40 CFR 60.49b.
	27. The owner or operator of an affected facility may submit electronic quarterly reports for SO ₂ and/or opacity in lieu of written reports in accordance with 40 CFR 60.49b(v).
Facility-Wide	28. MassDEP must be notified as soon as possible by telephone, and subsequently within seven days, in writing, after the occurrence of any system upsets or malfunctions of any air pollution control equipment, continuous emission monitors, or other monitoring equipment at this facility as referenced in Approval MBR-86-COM-083, Proviso No. 8.
	29. Submit compliance records within ten (10) days of written request by MassDEP or EPA as provided in 310 CMR 7.19(13)(d)9. incorporated herein by reference.
Facility-Wide	30. Submit a Source Registration/Emission Statement Form to MassDEP on an annual basis as required by 310 CMR 7.12 and include such information as MassDEP may specify including: <ul style="list-style-type: none"> a. the nature and amounts of the emissions from the facility, b. information which may be needed to determine the nature and amounts of emissions from the facility, and c. any other information pertaining to the facility which MassDEP requires as provided in 310 CMR 7.12 incorporated herein by reference.
	31. As required by 310 CMR 7.00: Appendix C (10)(f), promptly report to MassDEP all instances of deviations from the Permit requirements.
	32. 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) and General Condition No. 10 of this Permit.
	33. Submit an Annual Compliance Report to MassDEP and EPA by January 30 of each year as required by General Condition 10 of this Permit.
	34. Submit compliance records relative to this Operating Permit or to the emissions of any air contaminant from the facility to MassDEP within 30 days of the request by MassDEP, or longer time period if approved in writing by MassDEP, and shall be transmitted on paper, on computer disk, or electronically at the discretion of MassDEP, as required by 310 CMR 7.00 Appendix C(10)(a).
	35. As required by 310 CMR 7.00: Appendix C (10)(d), upon request, furnish to MassDEP copies of records required to be kept by this Operating Permit, or for information claimed to be confidential, said person may furnish such records directly to MassDEP and EPA, along with a claim of confidentiality.
	36. As required by 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).
	37. In accordance with 310 CMR 7.71(5), by April 15 th of each year report emissions of greenhouse gases from stationary emission sources including, but not limited to, emissions from factory stacks, manufacturing processes and vents, fugitive emissions, and other process emissions; and owned or leased motor vehicles. Report greenhouse gas emissions electronically in a format that can be accommodated by the registry (State only requirement).
	38. In accordance with 310 CMR 7.71(6), certify greenhouse gas emissions reports using a form provided by MassDEP or the registry (State only requirement).
	39. In accordance with 310 CMR 7.71(7), by December 31 st of the applicable year submit to MassDEP documentation of triennial verification of the greenhouse gas emissions report (State only requirement).

Table 6

EU#	REPORTING REQUIREMENTS
	40. In accordance with 310 CMR 7.13(1) and 7.13(2), if determined by MassDEP that stack testing is necessary to ascertain compliance with MassDEP's regulations or design approval provisos shall cause such stack testing to be summarized and submitted to MassDEP as prescribed in the agreed to pretest protocol.

C. GENERAL APPLICABLE REQUIREMENTS

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

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

Table 7	
REGULATION	DESCRIPTION
310 CMR 7.16	Reduction of Single Occupant Commuter Vehicle Use
42 U.S.C. 7401, §112(r)(7)	Prevention of Accidental Release
310 CMR 7.28	As of January 1, 2009, this Regulation is no longer applicable: it was superseded by 310 CMR 7.32
310 CMR 7.27	This Regulation was superseded by 310 CMR 7.28 and 7.32

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:

Table 8	
EU #	SPECIAL TERMS AND CONDITIONS
CT, DB	<p>1. The Final Phase II Acid Rain Permit issued by MassDEP to Lowell Cogeneration Company LP on March 4, 2004 superseded all references in any Approvals previously issued to the Permittee as a non-Acid Rain affected facility.</p> <p>2. Federal Acid Rain Program, Phase II Acid Rain Permit:</p> <p>CT and DB are subject to the requirements of Phase II of the Federal Acid Rain Program. Pursuant to 40 CFR 72.71, 40 CFR 72.73, and 310 CMR 7.00, Appendix C(3)(n), MassDEP is the permitting authority for Phase II Acid Rain Permits. MassDEP issued a Final Phase II Acid Rain Permit to Lowell Cogeneration Company LP on March 4, 2004 and is incorporating the requirements of the renewal Phase II Acid Rain Permit into this Operating Permit. The Phase II Acid Rain Permit will renew with the Operating Permit.</p> <p>Within 60 days of the end of each calendar year, the facility shall hold in its SO₂ allowance account at least one allowance for each ton of SO₂ emitted during the previous year. An allowance is a limited authorization to emit SO₂ in accordance with the Acid Rain Program.</p> <p>If the facility has excess emissions in any calendar year, it shall submit a proposed</p>

Table 8

EU #	SPECIAL TERMS AND CONDITIONS								
CT, DB	<p>offset plan as required under 40 CFR Part 77. In addition, the Permittee shall pay any penalties specified in 40 CFR Part 77 and comply with the terms of an approved offset plan.</p> <p>In accordance with 40 CFR Part 73, the Permittee's designated representative may buy, sell, trade, or transfer allowances between EU accounts at any time, except between 60 days of the end of the calendar year and the completion of the annual SO₂ allowance reconciliation for the preceding year(s).</p> <p>The yearly SO₂ allowance allocations as identified in 40 CFR Part 73, Tables 2, 3, or 4 (as amended) are identified below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2">Emission Unit</th> <th colspan="2">Calendar Year</th> </tr> <tr> <th>2000-2009</th> <th>2010 and beyond</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td align="center">0</td> <td align="center">0</td> </tr> </tbody> </table> <p>The Final Phase II Acid Rain Permit issued by MassDEP to Lowell Cogeneration Company L.P. on March 4, 2004 is incorporated by reference into Operating Permit No. MBR-95-OPP-003-R.</p>	Emission Unit	Calendar Year		2000-2009	2010 and beyond	1	0	0
	Emission Unit		Calendar Year						
		2000-2009	2010 and beyond						
	1	0	0						
<p>3. CO₂ Budget Trading Program, 310 CMR 7.70</p> <p>Lowell Cogeneration Company L.P. is subject to the requirements of the Massachusetts CO₂ Budget Trading Program, 310 CMR 7.70; hence the Permittee shall comply with all applicable requirements therein. In accordance with 310 CMR 7.70(3)(b), the CO₂ Authorized Account Representative submitted a CO₂ Budget Emission Control Plan under 310 CMR 7.70(3)(c). MassDEP issued a CO₂ Budget Trading Program Emission Control Plan Approval (Transmittal Number X007654) to Lowell Cogeneration Company, L.P. on March 10, 2009 (State only requirement).</p>									
<p>4. Massachusetts Clear Air Interstate Rule (MassCAIR), 310 CMR 7.32</p> <p>The owner/operator of Lowell Cogeneration Company L.P. is subject to and shall comply with the Massachusetts Clean Air Interstate Rule (CAIR), 310 CMR 7.32, and has submitted a CAIR permit application pursuant to 310 CMR 7.32(3).</p>									
<p>5. Approval Number MBR-94-COM-039:</p> <p>As referenced in Approval MBR-94-COM-039, the products of combustion are emitted through one of two stacks. The main stack has an inside diameter of 8 feet, providing a maximum flue gas exit velocity of 62.0 feet per second at 445 degrees F. This main stack is 134 feet above ground level. The combustion turbine by-pass stack has an inside exit area of 69.3 square feet, providing a maximum flue gas exit velocity of 78 feet per second at 980 degrees F. The height of this by-pass stack is 70 feet above ground level.</p>									

Table 8

EU #	SPECIAL TERMS AND CONDITIONS
CT, DB	<p>6. In its original 310 CMR 7.19 submittal, the Permittee proposed to apply enhanced water injection in the gas turbine to achieve the NOx emissions limitations required by Regulation 310 CMR 7.19(7). The enhanced water injection reduces thermal NOx emissions by lowering the combustion flame temperature. However, the Permittee has determined that reducing the NOx emissions to 310 CMR 7.19(7) limitations can, under certain operating conditions, increase carbon monoxide (CO) emissions to greater than those permitted in this facility's Prevention of Significant Deterioration (PSD) Approval No. MBR-86-COM-083. Therefore, in order to comply with both the NOx RACT and the PSD CO emission limits, the Permittee shall purchase NOx ERCs as provided in 310 CMR 7.00:Appendix B(3) to offset all actual emissions of NOx in excess of 310 CMR 7.19(7) thresholds. However, NOx ERC use shall not exceed 15 tons of NOx ERCs per calendar year as provided in Approval MBR-94-COM-039.</p>
	<p>7. In order to comply with the NOx and CO emission limitations in Table 3 of this Permit, Lowell Cogeneration shall purchase Emission Reduction Credits (ERC) as provided in 310 CMR 7.00:Appendix B(3) to offset all actual emissions of NOx in excess of the limits set forth in Table 3 above. The Permittee shall perform daily calculations according to the equation below in order to determine the quantity of ERCs needed to comply with the emission limits shown in Table 3, as referenced in MBR-94-COM-039, Proviso No. II.a.</p> $ERC_{NOx}(\text{needed}) = (AcE_{NOx} - AIE_{NOx}) * 1.05/0.90$ <p>where:</p> <p>AcE_{NOx} = actual NOx emissions from the facility in pounds per day</p> <p>AIE_{NOx} = allowable NOx emissions from the facility in pounds per day</p> <p>$ERC_{NOx}(\text{needed})$ = the daily quantity of federally enforceable emission reduction credits from sources of NOx emissions certified by MassDEP under 310 CMR 7.00: Appendix B which must be purchased by the Permittee</p> <p>1.05/0.90 = Compliance assurance multiplier based on the use of CEMS to monitor actual emissions</p> <p>Calculations of $ERC_{NOx}(\text{needed})$ shall be rounded up to the nearest ton, on a monthly basis.</p>
CT, DB	<p>8. During periods of operation of simple cycle turbine firing, the CEMS cannot simultaneously sample from both stack probes. During said operation, the Permittee shall use water to fuel measurements as a surrogate to estimate actual NOx emissions in the bypass stack. This parametric method of estimating actual NOx emissions shall be based on actual operating data during modes where the CEMS is fully operational. For periods of operation where the NOx emissions are parametrically monitored, the compliance assurance multiplier used in the ERC calculation shall be 1.05/0.8 as referenced in Approval MBR-94-COM-039, Proviso No. II.b.</p>
	<p>9. The use of NOx ERCs that are generated during the "non-ozone season" shall be restricted to use during a "non-ozone season" only, pursuant to Regulation 310 CMR 7.00: Appendix B(3). Likewise, the use of NOx ERCs that are generated during the "ozone season" shall be restricted to use during the "ozone season" only. Lowell Cogeneration shall further be restricted to usage of no more than 15 tons of NOx ERCs per year. Failure to comply with this restriction shall result in Lowell Cogeneration being subject to enforcement action including penalties as referenced in Approval MBR-94-COM-039, Proviso Nos. II.c. and d.</p>

Table 8	
EU #	SPECIAL TERMS AND CONDITIONS
CT	10. During simple cycle operation, water shall be injected into the turbine at a rate such that the water to fuel ratio will be maintained at no less than 0.50 while the turbine is utilizing natural gas, as referenced in CAM plan submitted as an addendum to Renewal OP Application, Transmittal No. X223974.
	11. During simple cycle operation, water shall be injected into the turbine at a rate such that the water to fuel ratio will be maintained at no less than 0.55 while the turbine is utilizing fuel oil, as referenced in CAM plan submitted as an addendum to Renewal OP Application, Transmittal No. X223974.
	12. The noise generated by the combustion turbine shall be suppressed by a Burgess-Manning, or equivalent, exhaust silencer as referenced in Approval MBR-86-COM-083.
	13. Comply with applicable monitoring of sulfur and nitrogen content in fuel contained in 40 CFR 60, Subpart GG.
DB	14. In accordance with 40 CFR 60.42b(j), percent reduction requirements under 40 CFR 60.42b(a), are not applicable to affected facilities combusting only very low sulfur oil. The owner or operator of an affected facility combusting very low sulfur oil shall demonstrate that the oil meets the definition of very low sulfur oil by: (1) Following the performance testing procedures as described in section 60.45b(c) or section 60.45b(d) and following the monitoring procedures as describe in section 60.47b(a) or section 60.47b(b) to determine sulfur dioxide emission rate or fuel oil content; or (2) maintaining fuel receipts as described in section 60.49b(r).
B-1, B-2	15. Emission Unit Nos. B-1 and B-2 exhaust combustion gases through a common steel stack, the top of which is 100 feet above ground level. The exit diameter is 28 inches providing a minimum exit velocity of 8.5 feet per second at 350 F as referenced in Final Approval and Approval of Stack Test Results, Application No. MBR-95-COM-002.
	16. Emission units EU 6 and EU 7 are subject to the requirements of 40 CFR 63.1-15, Subpart A, "General Provisions" [as indicated in Table"8" to Subpart JJJJJ of 40 CFR 63]. Compliance with all applicable provisions therein is required.
	17. As required in § 63.11201 and Table 2 to Subpart JJJJJ of 40 CFR Part 63, conduct the one time energy assessment as specified in Table 2 to Subpart JJJJJ.
E-1	18. On or after the applicable compliance date of May 3, 2013, as referenced in 40 CFR Part 63, Subpart ZZZZ, Sections 63.6640, 63.6603, and Table 2d, No.4, all incorporated herein by reference, perform the following: Change oil and filter every 500 hours of operation or annually, whichever comes first; Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
E-1	19. On or after the applicable compliance date of May 3, 2013, as referenced in 40 CFR Part 63, Subpart ZZZZ, Sections 63.6625(e), 63.6640(a) and Table 6, No.9, all incorporated herein by reference, continuously operate and maintain each stationary RICE according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
Facility-Wide:	20. Should any nuisance condition(s) be generated at the facility, then appropriate steps shall immediately be taken to abate said nuisance condition(s) as referenced in Approval MBR-94-COM-039, Proviso No. VI.d. (State only requirement).
	21. The Permittee is subject to the requirements of 310 CMR 7.71, incorporated herein by reference, and shall comply with all applicable requirements contained therein.

Table 8	
EU #	SPECIAL TERMS AND CONDITIONS
	22. The Permittee is subject to, and has stated in their operating permit application, Transmittal No. X223974, that the Permittee is in compliance with the requirements of 40 CFR 82: Protection of Stratospheric Ozone. These requirements are applicable to this facility and the United States Environmental Protection Agency enforces these requirements.

6. ALTERNATIVE OPERATING SCENARIOS

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

7. EMISSIONS TRADING

(a) Intra-facility emissions trading

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

(b) Inter-facility emissions trading

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

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5. In addition, the Permittee shall comply with any applicable requirements that become effective during the Permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

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

10. COMPLIANCE CERTIFICATION

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

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

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

(a) Annual Compliance Report and Certification

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

The compliance certification and report shall describe:

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

(b) Semi-Annual Monitoring Summary Report and Certification

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

The compliance certification and report shall describe:

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

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This permit does not relieve

the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this permit.

12. PERMIT SHIELD

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

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

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

(c) Nothing in this permit shall alter or affect the following:

- (i) the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
- (ii) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
- (iii) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A.

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

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

14. PERMIT TERM

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

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

15. PERMIT RENEWAL

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

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

16. REOPENING FOR CAUSE

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

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

17. DUTY TO PROVIDE INFORMATION

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

18. DUTY TO SUPPLEMENT

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

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

19. TRANSFER OF OWNERSHIP OR OPERATION

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

20. PROPERTY RIGHTS

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

21. INSPECTION AND ENTRY

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

- (a) enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) Sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the operating permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

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

23. SEVERABILITY CLAUSE

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

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹ emission limitations specified in this permit as a result of an emergency². In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) an emergency occurred and that the Permittee can identify the cause(s) of the emergency;
- (b) the permitted facility was at the time being properly operated;
- (c) during the period of the emergency, the Permittee took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this permit; and
- (d) the Permittee submitted notice of the emergency to the MassDEP within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

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

25. PERMIT DEVIATION

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

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

- Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.
- Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the permit or approval as surrogate for an emission limit.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the MassDEP Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via the MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm#op>.

This report shall include the deviation, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

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

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.

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.