



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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Administrative Amendment to an AIR QUALITY OPERATING PERMIT

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

ISSUED TO ["the Permittee"]:

Essential Power Massachusetts, LLC
15 Agawam Avenue
West Springfield, MA 01089

FACILITY LOCATION:

Essential Power Massachusetts, LLC
West Springfield Station
15 Agawam Avenue
West Springfield, MA 01089

NATURE OF BUSINESS:

Electric Power Utility

RESPONSIBLE OFFICIAL:

Name: Charles Richard Neff
Title: Senior Vice President -
Environmental Health & Safety

INFORMATION RELIED UPON:

Application No. 21-AQ11-00008-AMD
eplace Authorization No. AQ14-0000005
Approval No. WE-21-012

FACILITY IDENTIFYING NUMBERS:

AQ ID: 0420117
FMF FAC NO. 323182
FMF RO NO. 329815

STANDARD INDUSTRIAL CODE (SIC):

4911

**NORTH AMERICAN INDUSTRIAL
CODE (NAICS): 221112**

FACILITY CONTACT PERSON:

Name: Thomas Bartley
Title: General Manager
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This operating permit shall expire on 7/21/2025.
For the Department of Environmental Protection

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.

1/06/2021

Michael Gorski
Regional Director
Department of Environmental Protection
Western Regional Office

Date

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

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SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

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

A. DESCRIPTION OF FACILITY AND OPERATIONS

Essential Power (EP) Massachusetts, LLC, located on Agawam Avenue in West Springfield is an electric power generating station consisting of three peaking combustion turbines. The facility submitted a timely operating permit renewal application to MassDEP, which was received on February 14, 2019, in accordance with 310 CMR 7.00 Appendix C(4)(b)(4). On June 10, 2021 the Facility notified MassDEP that the oil and gas-fired steam unit known as Unit 3 (EU 15) and the emergency generator known as (EU 21) would be retired from service effective 2359- hours on June 30, 2021. The steam electric generating unit (EGU) (EU 15), a tangentially fired water tube boiler manufactured by Combustion Engineering, was recently removed. The solvent metal degreasing operations (EU 18) and 100 kW Reiner, GBC-100AC natural gas fired emergency engine (EU 21) are also being removed from the facility and the Title V Operating permit. This administrative amendment is being submitted to request the removal of EUs 15, 18, and 21 and all associated applicable requirements from this operating permit.

The oldest peaking turbine (EU 17), which was constructed at the facility in November 1968, is a Pratt & Whitney Engine that mostly fires ultra low sulfur kerosene, as well as jet fuel, and operates in a peaking mode with a net electrical output of 22 MW at base load condition. The two newer General Electric (“GE”) Model LM6000 turbines (EUs 19 & 20), which were issued a non-major comprehensive permit approval on January 19, 2001 and constructed in 2002, fire natural gas and ultra low sulfur distillate (ULSD) oil and operate in peaking mode with a net total output of 90 MW. The facility has the capability of producing a combined output of 112 MW.

An ancillary air contaminant source at the facility is a natural gas and #2 fuel oil-fired Cleaver Brooks CB(LE) 200-350, 14.6 million Btu per hour auxiliary boiler (EU 16). The auxiliary boiler was constructed at the facility in 1995.

The facility has demonstrated that it is an area source of hazardous air pollutant (HAP) emissions by calculating the facility-wide total and individual HAP potential to emit to be less than the major source thresholds of 25 tons per year and 10 tons per year, respectively. Since the facility is an area source of HAPs, a facility-wide emission limitation has been included in Table 3 herein to limit the facility-wide total and individual HAP emissions to less than 25 tons in any 12 consecutive month period and less than 10 tons in any 12 consecutive month period.

On February 16, 2012, the USEPA published final standards in the Federal Register for the National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Coal-and Oil-Fired Electric Utility Steam Generating Units (40 CFR Part 63, Subpart UUUUU). The applicable requirements for Subpart UUUUU have been removed from this operating permit as the steam electric generating boiler has been removed and they are no longer applicable to any emission units at the facility.

On December 21, 2012, the USEPA published finalized changes to the NESHAPs for Area Sources: Industrial, Commercial, and Institutional Boilers (40 CFR Part 63 Subpart JJJJJ) which applies to each new, reconstructed, or existing industrial, commercial or institutional boiler located at an area source.

Therefore, Subpart JJJJJ applies to the existing natural gas and #2 fuel oil-fired Cleaver Brooks 14.6 MMBtu/hr auxiliary boiler (EU 16), constructed in 1995. According to Subpart JJJJJ, EU 16 must comply with the applicable requirements of the subpart no later than March 21, 2014. An initial notification was submitted to the USEPA on September 8, 2011. The applicable requirements have been included in this operating permit.

EU 16 is also subject to 40 CFR Part 60, Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units) since the subpart applies to each steam generating unit which has a maximum design heat input capacity of 100 MMBtu/hr or less, but greater than or equal to 10 MMBtu/hr that commenced construction, modification, or reconstruction after June 9, 1989. The applicable requirements have been included in this operating permit.

EU 17 is subject to Reasonably Available Control Technology for Sources of Oxides of Nitrogen (310 CMR 7.19). The facility is utilizing federally enforceable NO_x Emission Reduction Credits certified by the MassDEP in accordance with 310 CMR 7.00: Appendix B(3) to comply with NO_x RACT for the EU 17 combustion turbine.

The GE combustion turbines (EUs 19 & 20) are subject to 40 CFR Part 60, Subpart GG (Standards of Performance for Stationary Gas Turbines) since the subpart applies to all stationary gas turbines with a heat input peak load equal to or greater than 10 MMBtu/hr that commenced construction, modification, or reconstruction after October 3, 1977. EU 17 is exempt from Subpart GG since it commenced construction prior to October 3, 1977 pursuant to 40 CFR 60.330(b). The applicable Subpart GG emission limits are not included in Table 3 of this operating permit. Subpart GG emission limits for NO_x and SO₂ will be demonstrated by meeting the more stringent emission limits under MassDEP Plan Approvals #1-P-04-011 (dated 7/30/2004) and #WE-14-012 (dated 7/09/2014).

On June 21, 2002, MassDEP approved alternative NO_x, O₂, CO and NH₃ continuous emissions monitor calibration, quality assurance/quality control provisions, and continuous emission monitor data validation and data reduction for the GE combustion turbines (EUs 19 & 20). This alternative monitoring has been included in this operating permit since it was not previously included.

As previously discussed, the facility is not a major source of HAPs; therefore, the combustion turbines are not subject to the NESHAPs for Stationary Combustion Turbines (40 CFR Part 63, Subpart YYYY).

The combustion turbines (EUs 19 and 20) are subject to the Title IV Acid Rain Program of the 1990 Clean Air Act Amendments. 40 CFR 72.6(a)(1) states that simple cycle combustion turbines that commenced commercial operation after November 15, 1990 are subject to the requirements of the program.

As part of this operating permit application review, a compliance assurance monitoring (CAM) applicability determination was conducted. CAM applicability is separately determined for each pollutant emitted by an emission unit, or as it is defined in 40 CFR Part 64, pollutant-specific emission units (“PSEU”). The determination concluded that the combustion turbines (EU 19 and 20) are exempt from complying with the CAM requirements of 40 CFR Part 64 since the emission limitations for which there is a control device are required to have a continuous compliance determination method, as defined in 40 CFR 64.1. This exemption is specified in 40 CFR 64.2(b)(1)(vi).

The facility is considered to be a major source since it has the potential to emit greater than 50 tons per year of nitrogen oxides (NO_x). Therefore the facility is subject to the Operating Permit and Compliance Program pursuant to 310 CMR 7.00: Appendix C(2).

The facility is a “major stationary source” pursuant to the Emission Offsets and Nonattainment Review regulations of 310 CMR 7.00: Appendix A because the facility has the potential to emit more than 50 tons per year of NO_x.

The facility is a “minor stationary source” pursuant to the Prevention of Significant Deterioration regulations of 40 CFR § 52.21 since it has the potential to emit less than 250 tons per year of a new source review regulated pollutant.

Federal Acid Rain Program

The Permittee is subject to the requirements of Phase II of the Federal Acid Rain Program for EU 19, and EU 20, as defined by EPA in 40 CFR Part 72 and 40 CFR Part 75.

Pursuant to 40 CFR Part 72.71, 40 CFR Part 72.73, and 310 CMR 7.00: Appendix (C)(3)(n), MassDEP is the permitting authority for Phase II Acid Rain Permits. The Permittee was issued the initial Phase II Acid Rain Permit on May 20th, 2002 for EU 19 and EU 20.

The Department is incorporating the requirements of the renewal Phase II Acid Rain Permit into this Operating Permit. The Phase II Acid Rain requirements will renew in the Operating Permit.

Massachusetts NO_x Reasonably Available Control Technology (NO_x RACT)

As the Facility has the potential to emit 50 or more tons per year of oxides of nitrogen (“NO_x”), it is subject to the NO_x RACT requirements of 310 CMR 7.19. Specifically, EU 17 is subject to 310 CMR 7.19(3) which requires the submission of a NO_x RACT Emissions Control Plan (“ECP”) and have it approved by MassDEP. On January 14, 1998, MassDEP issued NO_x RACT ECP Approval #1-E-94-010; Transmittal Number #85403. EU 17 is not subject to 7.19(7)(b) because it each unit has an annual capacity factor of less than 10% averaged over the most recent 3 years in accordance with 310 CMR 7.19(1)(d). EUs 19 and 20 are not subject to 310 CMR 7.19(7) because approved BACT limits are more stringent than RACT in accordance with 310 CMR 7.19(1)(c)9.

Massachusetts NO_x Ozone Season Program (MassNO_x)

The Permittee is subject to the requirements of the Massachusetts NO_x Ozone Season Program (MassNO_x) regulation for EU 17 as defined by MassDEP in 310 CMR 7.34(7)(b).

The permittee shall comply with the NO_x emissions budget contained in 310 CMR 7.34(7)(b): *Table A* for the 2018 ozone season and each ozone season thereafter. If the Department determines that the state-wide budget, of 1,799 tons of NO_x per ozone season, is exceeded during any ozone season, 2018 or after, the Permittee may be required to offset all NO_x emissions beyond the NO_x emissions budget contained in 310 CMR 7.34(7)(b): *Table A* in accordance with 310 CMR 7.34(8).

Massachusetts CO₂ Budget Trading Program

The Permittee is subject to the requirements of the Massachusetts CO₂ Budget Trading Program for EU 19, and EU 20, as defined by MassDEP in 310 CMR 7.70(1)(d).

Pursuant to 310 CMR 7.70(3), the Permittee was issued a CO₂ Budget Program Emissions Control Plan (ECP) on December 30th, 2008. In accordance with 310 CMR 7.70(8)(a), the owner or operator shall install, maintain, operate, and report emissions data from a CO₂ emissions monitoring system. **(State Only Requirement).**

Massachusetts Greenhouse Gas Reporting Program

The Permittee is subject to the requirements of Greenhouse Gas Reporting as defined by MassDEP in 310 CMR 7.71(3)(a). **(State Only Requirement).**

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

“Greenhouse Gas” means any chemical or physical substance that is emitted into the air and that MassDEP may reasonably anticipate will cause or contribute to climate change including, but not limited to, CO₂, CH₄,

N₂O, SF₆, hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs).

Reducing CO₂ Emissions from Electric Generating Facilities

The Permittee is subject to the requirements of the Reducing CO₂ Emissions from Electricity Generating Facilities regulation for EU 19, and EU 20, as defined by MassDEP in 310 CMR 7.74(3).

The Permittee shall comply with the CO₂ emissions limits contained in 310 CMR 7.74(5) for calendar year 2018 and each year thereafter. The Permittee may offset all emissions using allowances in the facility allowance registry account in accordance with 310 CMR 7.74(6)(b) or request deferred compliance due to an emergency in accordance with 310 CMR 7.74(6)(d). **(State Only Requirement).**

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)
EU 16	Natural Gas and #2 Fuel Oil – Fired Cleaver Brooks CB(LE) 200-350 Auxiliary Boiler (constructed 1995)	12,075 lb steam/hr 14.6 MMBtu/hr	Flue gas recirculation & low NO _x burner
EU 17	Jet Fuel and Ultra Low Sulfur Kerosene–Fired Pratt and Whitney FT-4 Combustion Jet Turbine Unit 10 (constructed 1968)	244 MM Btu/hr	None
EU 19	Natural Gas and #2 Fuel Oil – Fired General Electric LM6000 Simple Cycle Combustion Turbine Generator CTG-1(constructed 2002)	462.6 MMBtu/hr – Natural Gas 437 MMBtu/hr - #2 fuel Oil	Water injection, SCR, & CO catalyst
EU 20	Natural Gas and #2 Fuel Oil – Fired General Electric LM6000 Simple Cycle Combustion Turbine Generator CTG-2 (constructed 2002)	462.6 MMBtu/hr – Natural Gas 437 MMBtu/hr - #2 fuel Oil	Water injection, SCR, & CO catalyst

Table 1 Key:

CO = Carbon Monoxide
 NO_x = Nitrogen Oxides
 MMBtu/hr = Million British thermal units per hour
 SCR = Selective Catalytic Reduction
 kW = kilowatt

3. IDENTIFICATION OF EXEMPT ACTIVITIES

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

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

4. APPLICABLE REQUIREMENTS

A. OPERATIONAL AND/OR PRODUCTION EMISSION LIMITS AND RESTRICTIONS

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

Table 3a					
EU #	Fuel/Raw Material	Pollutant	Emissions Limits ⁽¹⁾ / Restrictions		Applicable Regulation and/or (Approval No.)
EU 16	#2 oil & natural gas	particulate matter	≤ 0.10 lb/MMBtu		310 CMR 7.02(8)(h)
		nitrogen oxides	≤ 246ppmv @ 3% O ₂ (oil) ≤ 30ppmv @ 3% O ₂ (natural gas)		Approval #1-B-94-058 (12/23/94)
		visible emissions	No visible emissions during normal operation		Approval #1-B-94-058 (12/23/94)
		sulfur in oil	≤ 0.3% S by weight		Approval #1-B-94-058 (12/23/94; amended 4/17/02)
			≤ 0.0015% S by weight on and after July 1, 2018		40 CFR Part 60 Subpart Dc 310 CMR 7.05 ⁽²⁾
EU 17	Jet fuel & ultra low sulfur kerosene	nitrogen oxides	≤ 100ppmvd @15% O ₂		310 CMR 7.19(7)(a)2.b. Approval #1-E-94-010 (1/14/98)
		carbon monoxide	≤ 100ppmvd @15% O ₂		310 CMR 7.19(7)(a)2.c. Approval #1-E-94-010 (1/14/98)
		sulfur in oil	0.02 % S by weight ≤ 0.0015% S by weight on and after July 1, 2018		Approval #1-E-94-010 (1/14/98) 310 CMR 7.05 ⁽²⁾
		n/a	≤ 10% annual capacity factor averaged over most recent 3-year consecutive period ⁽¹⁶⁾		310 CMR 7.19(1)(d)
EU 17	All	nitrogen oxides	9 tons/ozone season	310 CMR 7.34(7)(b): Table A	

Table 3b

EU #	Fuel/Raw Material/	Pollutant	Emissions Limits ⁽³⁾ / Restrictions						Restrictions tons per year ⁽⁴⁾ (both CTGs combined)	Applicable Regulation and/or (Approval No.)
			Natural Gas			Oil				
			ppmvd @ 15%O ₂	lb/MMBtu	lb/hr (each CTG)	ppmvd @ 15%O ₂	lb/MMBtu	lb/hr (each CTG)		
EU 19 EU 20	natural gas or distillate oil	particulate matter ⁽⁵⁾	n/a	0.01	4.5	n/a	0.025	11.3	14.7	Approval #1-P-04-011 (7/30/04)
		nitrogen oxides	3.5	0.0129	5.9	6.0	0.0231	10.8	19.3	Approval #1-P-04-011 (7/30/04) 40 CFR 60-Subpart GG
		carbon monoxide	5.0 ⁽⁶⁾	0.0112 ⁽⁶⁾	4.3	5.0 ⁽⁶⁾	0.0112 ⁽⁶⁾	≤ 4.3	27.7	Approval #1-P-04-011 (7/30/04) Approval #WE-14-012 (7/9/14)
			10.0 ⁽⁷⁾	0.0224 ⁽⁷⁾		10.0 ⁽⁷⁾	0.0224 ⁽⁷⁾			
		volatile organic compounds	2.0	0.0026	1.1	12.0	0.0162	6.4	7.4	Approval #1-P-04-011 (7/30/04)
		sulfuric acid mist	n/a	n/a	0.15	n/a	0.00043	0.2	0.3	Approval #1-P-04-011 (7/30/04)
		ammonia	7.0	n/a	4.4	10.0	n/a	6.2	10.6 ⁽⁸⁾	Approval #1-P-04-011 (7/30/04)
		Sulfur dioxide ⁽⁹⁾	0.4	0.0021	0.9	0.7	0.0038	1.5	2.9	Approval #1-P-04-011 (7/30/04)
		Opacity ⁽¹⁰⁾	≤ 5 percent			≤ 20 percent			n/a	Approval #1-P-04-011 (7/30/04)
sulfur in fuel	ng: ≤ 0.8 grains/100ft ³			oil: ≤ 0.0030% by weight			Approval #1-P-04-011 (7/30/04) 40 CFR Part 72 & 75 40 CFR Part 60 Subpart GG			
	n/a			oil: ≤ 0.0015% S by weight on and after July 1, 2018			310 CMR 7.05(1)(a)			

Table 3c

EU #	Fuel/Raw Material/	Pollutant	Emissions Limit / Standards	Restrictions	Applicable Regulation and/or (Approval No.)
EU 19 EU 20	all fuels	CO ₂	The Permittee shall hold CO ₂ allowances in a compliance account in an amount not less than the CO ₂ Budget Emissions Limitation.	n/a	310 CMR 7.70(1)(e)(3) (State Only Requirement)
			The Permittee shall hold CO ₂ allowances in an allowance registry account in an amount equal to or greater than the sum of either: (1) The prior calendar year CO ₂ emissions, minus any emissions for which compliance is deferred in accordance with 310 CMR 7.74(6)(d); or (2) Twice the amount of CO ₂ emissions emitted during the year before the prior calendar year if compliance was deferred pursuant to 310 CMR 7.74(6)(d).	n/a	310 CMR 7.74(6)(e) (State Only Requirement)
		SO ₂	The Permittee shall hold SO ₂ allowances, as of the allowance transfer deadline, in the Permittee's compliance account not less than the total annual emissions of SO ₂ for the previous calendar year; and comply with the applicable Acid Rain emissions limitations for SO ₂	n/a	310 CMR 7.00: Appendix C(3)(n); 40 CFR 72.9; Final Phase II ACID RAIN PERMIT [dated 5/20/02 and 1/27/2003]
		NO _x	n/a	n/a	
EU 19 EU 20	natural gas	n/a	n/a	344,174,400 ft ³ /calendar month ⁽¹¹⁾ 3,019,640,000 ft ³ /year ⁽¹²⁾⁽¹³⁾	Approval #1-P-04-011 (7/30/2004)
	distillate oil	n/a	n/a	2,455,731 gallons/calendar month ⁽¹¹⁾ 5,828,607 gallons/year ⁽¹²⁾⁽¹³⁾	
	all fuels	nitrogen oxides	205 lb/hr each	Startup or Shutdown ⁽¹⁴⁾	Approval #1-P-03-032 (11/14/03)
		carbon monoxide	10.4 lb/hr each		Approval #1-P-03-032 (11/14/03)
		ammonia	6.3 lb/hr each		Approval #1-P-03-032 (11/14/03)

Table 3d					
EU #	Fuel/Raw Material/	Pollutant	Emissions Limit / Standards	Restrictions	Applicable Regulation and/or (Approval No.)
Facility -wide	All fuels	Smoke	No. 1 of "the Chart" no more than 6 minutes during any one hour, no time to exceed No. 2 of "the Chart"	n/a	310 CMR 7.06(1)(a)
		Opacity	≤ 20%, except 20 to ≤ 40% for ≤ 2 minutes during any one hour		310 CMR 7.06(1)(b)
		Greenhouse gas ⁽¹⁵⁾	n/a		310 CMR 7.71 (State Only Requirement)
		Individual HAPs	<10.0 tons in any 12 consecutive month period		TVOP #1-O-05-040
		Total HAPs	< 25.0 tons in any 12 consecutive month period		

Table 3 Key:

CTG = Combustion Turbine Generator
 S = Sulfur
 Opacity = exclusive of uncombined water vapor
 CO = Carbon Monoxide
 CO₂ = Carbon Dioxide
 HAPs = Hazardous Air Pollutants
 ft³ = Cubic Feet
 ng = Natural Gas
 lbs/MMBtu = pounds per Million British thermal units
 lb/hr = pounds per hour

ppmvd @ 3% O₂ = parts per million by volume, corrected to 3 percent oxygen
 ppmvd @ 15% O₂ = parts per million by volume, corrected to 15 percent oxygen
 ppm = parts per million
 SO₂ = Sulfur Dioxide
 NO_x = Oxides of Nitrogen
 ≤ = less than or equal to
 < = less than
 % = percent
 n/a = not applicable
 SF6 = sulfur hexafluoride

Table 3a-e Foot Notes:

- (1) Emission Limits expressed as pound per million British Thermal Units (lb/MMBtu) and pounds per hour (lb/hr) are based on a one-hour average.
- (2) As provided in 310 CMR 7.05(1)(b)2. any person owning, leasing or controlling the operation of a fossil fuel utilization facility may burn any existing stock of fossil fuel oil at the facility, but shall not accept delivery of a fuel with a sulfur content in excess of the limits in 310 CMR 7.05(1)(a)1.: Table 1 on or after the applicable date(s) in 310 CMR 7.05(1)(a)1.: Table 1, except as provided in 310 CMR 7.05(1)(b)3.
- (3) All ‘ppmvd’, ‘lb/MMBtu’, and ‘lb/hr’ emission limits are based on a one-hour block average and are for normal operation, excluding startup, shutdown and malfunction. The emission rates for natural gas and oil firing are based on ambient temperatures of 49 °F and 54 °F respectively. During any period of operating fuel transition of natural gas-to-oil or oil-to-natural gas, the limits for oil firing shall be applied. An operating fuel transition period shall not extend beyond 15 minutes in duration for any single event.
- (4) Based on a rolling 12-month total. Annual emission limit includes excess emissions due to startup, shutdown, malfunction and for all other causes.

Table 3a-e Foot Notes (cont'):

- (5) Particulate matter consists of both the “front half” and “back-half” catch of the Method 5 sampling train. Particulate matter is regarded as consisting solely of PM₁₀.
- (6) Based on one-hour block average at temperature ≥ 42 °F.
- (7) Based on one-hour block average at temperature < 42 °F.
- (8) Includes the breathing & working losses from the ammonia storage tanks.
- (9) Based on natural gas fuel sulfur content of 0.8 grain/100 scf or oil sulfur content of 30 ppm by weight.
- (10) Compliance with the allowable opacity limits shall be determined by use of an opacity monitor in conformance with 40 CFR Part 75.
- (11) Both units combined.
- (12) Rolling 12-month total. To calculate a consecutive 12 month rolling period take the current calendar month amount and add it to the previous 11 calendar months total.
- (13) For every gallon of oil fired, the natural gas allowance (per calendar month or per rolling 12-month total) shall be reduced by 359.4 cubic feet.
- (14) The duration of Startups shall be no greater than 30 minutes after the daily on-line calibration is complete. The duration of shutdowns shall be no greater than 15 minutes after the shutdown command has been received by the turbine control system.
- (15) 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).
- (16) If unit meets or exceeds the 10% capacity factor based on a three-year calendar consecutive period, the owner/operator of the unit shall notify the Department in writing, and, if applicable, submit an Emission Control Plan pursuant to 310 CMR 7.19(3)(a)1., within 180 days of the end of the three-year period, shall comply with the applicable NO_x emission standards within two years of the end of the three-year period.

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) and applicable requirements contained in Table 3:

Table 4a	
EU#	MONITORING/TESTING REQUIREMENTS
EU 16	<ol style="list-style-type: none"> 1. In accordance with 40 CFR 63.11201(b) and Table 2, the Permittee shall conduct an initial performance tune-up of EU 16 as specified in 40 CFR 63.11214, and conduct a tune-up of EU 16 biennially as specified in 40 CFR 63.11223(b)(1) through (7). 2. In accordance with 40 CFR 63.11210(c), 40 CFR 63.11201(b) and Table 2, EU 16 shall have a one-time energy assessment performed by a qualified energy assessor as specified in Table 2 of 40 CFR Part 63 Subpart JJJJJ. The Permittee must demonstrate initial compliance no later than the compliance date that is specified in § 63.11196(a)(3) and according to the applicable provisions in § 63.7(a)(2), 3. In accordance with 40 CFR 63.11223(a) and (b)(1) through (5) and (b)(7), the Permittee shall conduct each tune-up while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. Each biennial performance tune-up must be conducted no more than 25 months after the previous tune-up. The tune-up shall be conducted as specified below. <ol style="list-style-type: none"> a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection. b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available. c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection. d. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject. e. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable carbon monoxide analyzer. f. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. 4. In accordance with 310 CMR 7.04(4)(a), inspect and maintain each fuel burning emission unit in accordance with the manufacturer's recommendations and test each unit in accordance with the manufacturer's recommendations for efficient operation (consistent with any concurrent requirements to comply with all applicable NO_x emission limits) once each calendar year.

Table 4b

EU#	MONITORING/TESTING REQUIREMENTS
EU 17	<p>5. In accordance with 310 CMR 7.04(2)(a), not cause, suffer, allow, or permit the burning of any grade oil or solid fuel in this combustion gas turbine unless it is equipped with a smoke density sensing instrument and recorder which are properly maintained in an accurate operating condition, operates continuously and is equipped with an audible alarm to signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart.</p> <p>As an alternate to the use of a smoke density sensing instrument and recorder (due to technical infeasibility on EU 17), and pursuant to the MassDEP’s authority through 310 CMR 7.00: Appendix C(9)(b)2., ensure that a Method 9 visible emission test is performed at least once during the time period June 1st to August 31st of any year, and at least once during the time period December 1st to February 28th of the following year, provided EU 17 operates during said time period.</p> <p>6. In accordance with 310 CMR 7.19(13)(a)7., and MassDEP Approval #1-E-94-010 (1/14/1998), conduct stack testing for NO_x and CO annually before October 1 of each year as specified in 310 CMR 7.19(13)(c) and in accordance with EPA Method 7E for NO_x and Method 10 for CO.</p> <p>7. In accordance with 310 CMR 7.34(3) the Permittee shall comply with all monitoring and testing requirements for ozone season NO_x emissions. The requirements of 310 CMR 7.34(3) shall not affect the responsibility of the Permittee to monitor emissions of other pollutants from or other emissions characteristics of EU 17.</p>
EU 19 EU 20	<p>8. In accordance with MassDEP Approval #WE-14-012 (7/9/14), EU 19 and EU 20 shall comply with the monitoring and testing requirements specified in MassDEP Approval #1-B-02-003/004 (issued 2/4/2002), MassDEP Approval #1-B-03-015 (issued 6/9/2003), MassDEP Approval #1-P-03-032 (issued 11/14/2003) and MassDEP approval letter dated June 21, 2002.</p> <p>9. In accordance with MassDEP Approval #1-B-02-003/004 (2/4/02), ensure that all monitors and the monitoring system conform with all applicable requirements as specified in the Code of Federal Regulations 40 CFR Part 60, Appendix B and Appendix F, 40 CFR Part 72 & Part 75, and the Massachusetts State Regulations at 310 CMR 7.19.</p> <p>10. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032 (11/14/03), EP Massachusetts shall test, calibrate, and operate a data acquisition system(s) (DAS) and stack CEMs to continuously monitor and record flue gas emissions of NO_x, CO, Opacity and NH₃ from each CTG.</p> <p>11. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), test, calibrate and operate a temperature measurement system to continuously monitor and record the inlet temperatures to the SCR and the CO catalysts for each CTG.</p> <p>12. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03), and #1-P-03-032(11/14/2003), at a minimum, equip each CEMs with audible and visible alarms that activate when emissions exceed the limits established in Table 3c.</p> <p>13. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), at a minimum, equip each SCR catalyst and CO catalyst temperature monitoring system with audible and visible alarms that activate when these temperatures deviate from prescribed values.</p> <p>14. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), use and maintain its CEMs system as “direct-compliance” monitors to measure NO_x, CO (and VOC) and NH₃. “Direct-compliance” monitors generate data that legally documents the compliance status of a source.</p>

Table 4c

EU#	MONITORING/TESTING REQUIREMENTS
EU 19 EU 20	<p>15. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), determine continuous compliance with the VOC emission limits contained herein by monitoring CO emissions with the CO CEM.</p> <p>If a CTG is operating at 50% load or greater, and if CO emissions are below the CO emission limit at the given CTG operating conditions, the VOC emissions shall be considered as occurring at the emission limit contained in this Final Approval.</p> <p>If a CTG is operating at 50% load or greater and if CO emissions are above the CO emission limit at the given CTG operating conditions, the VOC emissions shall be considered as occurring at a rate determined by the equation; $\text{VOC}_{\text{actual}} = \text{VOC}_{\text{limit}} \times (\text{CO}_{\text{actual}} / \text{CO}_{\text{limit}})$</p>
	<p>16. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), ensure that all stack monitors and recording equipment comply with MassDEP approved performance and location specifications, and conform with the EPA monitoring specifications in 40 CFR Part 60.13 & 40 CFR 60 Appendices B and F, and all applicable portions of 40 CFR Parts 72 and 75.</p>
	<p>17. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), operate the CEMs at all times a CTG is operating, except for periods of CEMs calibration checks, zero and span adjustments, preventative maintenance, and malfunction(s).</p>
	<p>18. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), obtain and record emission data from each CEMs for at least 75% of the hours per calendar day, 75% of the days per calendar month, and 95% of the hours per calendar quarter that each emission unit operates, except for periods of calibration checks, zero and span adjustments, preventative maintenance, and periods of malfunction.</p>
	<p>19. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03) and #1-P-03-032(11/14/2003), operate a continuous monitoring system to record the fuel consumption and the ratio of water-to-fuel being fired in the combustion turbine, or pursuant to any alternative monitoring arrangements approved by the U.S. EPA. The monitoring system shall be accurate to within $\pm 5\%$.</p>
	<p>20. In accordance with MassDEP Approvals #1-B-03-015 (6/9/03), #1-P-03-032(11/14/2003), and in accordance with provisions in 40 CFR Part 72 & 75, conduct fuel sampling analysis and fuel flow monitoring to determine SO₂ emissions from each stack. The emissions of CO₂ from each stack shall be calculated using EPA specified factors.</p>
	<p>21. In accordance with 40 CFR 60.334 (Subpart GG), ensure that the applicable monitoring requirements for the CTGs are adhered to.</p>
	<p>22. In accordance with MassDEP approval letter dated June 21, 2002, 40 CFR Part 60, Appendix B, Performance Specification 2 includes a NO_x calibration drift requirement of 2.5% of monitor span during the 7-day calibration drift test. The Permittee may calibrate such that the drift is no more than 5% of span (0.5 ppm) during the 7-day calibration drift test on the NO_x monitor.</p>
	<p>23. In accordance with MassDEP approval letter dated June 21, 2002, the Permittee may perform the 7-day calibration drift test on 7 consecutive unit operating days rather than on seven consecutive calendar days. This item applies to all emissions monitors at the facility.</p>
	<p>24. In accordance with MassDEP approval letter dated June 21, 2002, MassDEP is approving an alternate relative accuracy requirement of 0.5 ppmvd of NO_x, corrected to 15% O₂. For lb/MMBtu emission limits, MassDEP is approving an alternative relative accuracy requirement of 0.002 lb/MMBtu. For lb/hr emission limits, MassDEP is approving an alternative relative accuracy requirement equal to:</p> $\text{lb/hr relative accuracy} = 0.002 \text{ lb/MMBtu} * \text{WA_MMBtu/hr}$ <p>Where WA_MMBtu/hr = the weighted average MMBtu/hr determined by the data acquisition and handling system (DAHS) over the course of the most recent RATA testing, for every hour during which a RATA run was performed.</p>

Table 4d

EU#	MONITORING/TESTING REQUIREMENTS
EU 19 EU 20	<p>25. In accordance with MassDEP approval letter dated June 21, 2002, MassDEP is approving an alternative relative accuracy requirement of 0.5 ppmvd of CO corrected to 15% O₂. For lb/MMBtu emission limits, MassDEP is approving an alternative relative accuracy requirement of 0.001 lb/MMBtu. For lb/hr emission limits, MassDEP is approving an alternative relative accuracy requirement equal to:</p> $\text{lb/hr relative accuracy} = 0.001 \text{ lb/MMBtu} * \text{WA_MMBtu/hr}$
	<p>26. In accordance with MassDEP approval letter dated June 21, 2002, the Permittee may substitute the requirements of the quarterly linearity test, required under 40 CFR Part 75, in lieu of the requirement to perform quarterly cylinder gas audits as specified in 40 CFR Part 60 for the NO_x and O₂ monitors.</p>
	<p>27. In accordance with MassDEP approval letter dated June 21, 2002, the Permittee shall not be required to perform cylinder gas audits on the CO and NH₃ monitors during quarters where the unit associated with each monitor operates for < 168 operating hours, except that a CGA must be done for each pollutant (CO and NH₃) at least once every four quarters regardless of hours of operation.</p>
	<p>28. In accordance with MassDEP approval letter dated June 21, 2002, MassDEP approves the request to exempt the CO low scale range of 10 ppm and the NH₃ low scale range of 10 ppm from quarterly cylinder gas audits consistent with the Part 75 linearity exemption for pollutant spans of <30 ppm.</p>
	<p>29. In accordance with MassDEP approval letter dated June 21, 2002, the Permittee may perform hourly data validation in accordance with 40 CFR 75.10(d)(1) provisions for NO_x, O₂, CO and NH₃ which state that a valid data hour must contain at least one valid (quality assured) data point in each of the 15-minute quadrants that the units are on-line, with valid data required in only two 15-minute quadrants during hours that quality assurance or preventative maintenance activities are being conducted.</p>
	<p>30. In accordance with MassDEP approval letter dated June 21, 2002, the Permittee may apply O₂ diluent caps in accordance with Part 75 Appendix F Section 3 provisions for the determination of lb/MMBtu and ppmvd @ 15% O₂ emission rates for any hours that excess air levels exceed certain thresholds.</p>
	<p>31. In accordance with MassDEP approval letter dated June 21, 2002, MassDEP approves the request to designate an hour in which fuel is fired for any period as a “unit operating hour” in accordance with 40 CFR 72.2 definitions.</p>
	<p>32. In accordance with 40 CFR 72.9, 40 CFR Part 75 and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03] the Permittee shall comply with all monitoring requirements for NO_x and SO₂ emissions. The requirements of 40 CFR Part 75 shall not affect the responsibility of the Permittee to monitor emissions of other pollutants from or other emissions characteristics of EU 19 and EU 20.</p>
	<p>33. In accordance with 310 CMR 7.70(8) and Transmittal # X005353, the Permittee shall comply with all monitoring and testing requirements for annual CO₂ emissions, net electrical output, and net steam output. (State only Requirement)</p>

Table 4e

MONITORING/TESTING REQUIREMENTS	
EU#	
Facility - Wide	<p>34. In accordance with 310 CMR 7.13 <u>Stack Testing</u>, conduct stack testing, upon written request of the MassDEP, for any air contaminant for which the MassDEP has determined testing is necessary, to ascertain compliance with the MassDEP's regulations or design approval provisos. All such testing shall be conducted in accordance with 310 CMR 7.13 (1) and (2), and in accordance with the applicable procedures specified in 40 CFR 60 Appendix A or other method if approved by the MassDEP and EPA.</p> <p>In accordance with 310 CMR 7.02(8)(g), any emission testing to demonstrate compliance with the allowable particulate emission rate shall be in accordance with the EPA Methods 1-5, as specified in 40 CFR Part 60, Appendix A.</p> <p>In accordance with 310 CMR 7.19(13)(c) and MassDEP Approval #1-E-94-010 (1/14/1998), any emission testing to determine compliance with the allowable NO_x and CO emission limits shall be in accordance with EPA Method 7E for NO_x and EPA Method 10 for CO, as specified in 40 CFR Part 60, Appendix A.</p> <p>In accordance with 310 CMR 7.00 Appendix C(9)(b), any emission testing to demonstrate compliance with the allowable emission limit for smoke/opacity shall be in accordance with EPA Method 9, as specified in 40 CFR 60, Appendix A.</p>
	<p>35. In accordance with 310 CMR 7.00 Appendix C(9)(b), monitor sulfur content of each new shipment of jet fuel, #2 oil received. Compliance with % sulfur-in-fuel requirement can be demonstrated through testing (<u>testing certification</u>) or by maintaining a shipping receipt from the fuel supplier (<u>shipping receipt certification</u>).</p> <p>The <u>testing certification</u> or <u>shipping receipt certification</u> of % sulfur-in-fuel shall document that sulfur testing has been done in accordance with the applicable ASTM test methods (D129-95, D1266-91, D1552-95, D2622-92, and D4294-90 for sulfur), or any other method approved by MassDEP and EPA.</p>
	<p>36. In accordance with 310 CMR 7.00 Appendix C(9)(b), 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>37. In accordance with 310 CMR 7.71(1) and Appendix C(9), the Permittee shall establish and maintain data systems or record keeping practices (e.g. fuel use records, SF6 usage documentation, Continuous Emissions Monitoring System) for greenhouse gas emissions to ensure compliance with the reporting provisions of M.G.L. c. 21N, the Climate Protection and Green Economy Act, St. 2008, c. 298, § 6. (State Only Requirement)</p>

Table 4Key:

- | | |
|---|---|
| EU # = Emission Unit | CO = Carbon Monoxide |
| EGU = Electric Generating Unit | CO ₂ = Carbon Dioxide |
| EPA = Environmental Protection Agency | O ₂ = Oxygen |
| CFR = Code of Federal Regulations | NO _x = Nitrogen Oxides |
| CMR = Code of Massachusetts Regulations | NH ₃ = Ammonia |
| CTG = Combustion Gas Turbine | SO ₂ = Sulfur Dioxide |
| SCR = Selective Catalytic Reduction | VOC = Volatile Organic Compounds |
| SNCR = Selective Non-Catalytic Reduction | % = Percent |
| ppm = Parts Per Million | < = Less Than |
| ppmvd = Parts per Million by Dry Volume | lb/hr = pounds per hour |
| lb/MMBtu = Pounds per Million British Thermal Units | MMBtu/hr = Million British Thermal Units per Hour |

Table 5a

Table 5a	
EU#	RECORDKEEPING REQUIREMENTS
EU 16	1. In accordance with 40 CFR 60.48c(g)(1), record and maintain records of the amounts of fuel combusted during each operating day.
	2. In accordance with 40 CFR 60.48c(e), keep records of: <ul style="list-style-type: none"> a. Calendar dates covered in the reporting period. b. Fuel supplier certification which includes the name of the oil supplier; a statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and the sulfur content or maximum sulfur content of the oil.
	3. In accordance with 40 CFR 63.11225(c)(1), (c)(2)(i), (c)(2)(iii), (c)(4), (c)(5), the Permittee shall maintain the following records: <ul style="list-style-type: none"> a. As required in 40 CFR 63.10(b)(2)(xiv), keep a copy of each notification and report that is submitted to comply with 40 CFR Part 63, Subpart JJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted. b. The identity of each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. c. A copy of the energy assessment report. d. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment. e. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 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.
	4. In accordance with 40 CFR 63.11223(b)(6), the Permittee shall maintain on-site and submit, if requested by MassDEP or the USEPA, a report containing the information in paragraphs 40 CFR 63.11223(b)(6)(i) through (iii) and as specified below. <ul style="list-style-type: none"> a. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler. b. A description of any corrective actions taken as a part of the tune-up of the boiler. c. The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
	5. In accordance with 40 CFR 63.11225(d), keep records in a form suitable and readily available for expeditious review.
	6. In accordance with 310 CMR 7.04(4)(a), the results of fuel utilization facility inspection, maintenance, and testing and the date upon which it was performed shall be recorded and posted conspicuously on or near the facility.
	7. In accordance with 310 CMR 7.04(2)(a), maintain records of all Method 9 opacity observations.
EU 17	8. In accordance with 310 CMR 7.00 Appendix C: (10), record the quantity of NO _x Emission Reduction Credits (ERCs), both ozone and non-ozone season, required to comply with 310 CMR 7.19(7). The Permittee shall record the amount of NO _x ERCs, both ozone (May 1 through September 30) and non-ozone season (October 1 through April 30), actually obtained. Said records shall also identify the source of NO _x ERCs obtained, including company name, emission unit and method of generation, date of generation, and the Transmittal Number of the application for certification of NO _x ERCs.
	9. In accordance with 310 CMR 7.19(13)(d)3., measure and record for each unit on a daily basis the type of fuel(s) burned, the heat content of each fuel, the total heating value of the fuel consumed, the actual emission rate (for emissions units demonstrating compliance with CEMS), and the allowable emission rate for CO and NO _x .

Table 5b

Table 5b	
EU#	RECORDKEEPING REQUIREMENTS
EU 17	10. In accordance with 310 CMR 7.19(13)(d)7. & 8., and 310 CMR 7.00 Appendix C(10)(b), maintain copies of all fuel certifications or fuel analyses on-site for 5 years. All records required by 310 CMR 7.19(13)(d) shall be maintained for a period of five years in a permanently bound log-book or any other form acceptable to MassDEP including computer retained and generated data.
	11. In accordance with 310 CMR 7.34(6) the Permittee shall keep onsite at the source all records required under 40 CFR 75, Subpart H, for a period of 5 years, from the date of each record unless otherwise indicated in 40 CFR 75, Subpart H.
EU 19 EU 20	12. In accordance with MassDEP Approval #WE-14-012 (7/9/14), MassDEP Approval #1-B-03-015 (6/9/03), 40 CFR Part 75, 310 CMR 7.19(13)(a)1., 310 CMR 7.19(13)(b)1. through 7.19(13)(b)14., 40 CFR Part 60, Appendix B, and 40 CFR Part 60 Appendix F, record the emissions of NO _x , CO, SO ₂ , CO ₂ or O ₂ , and the flue gas opacity and volumetric flow rate on a continuous basis.
	13. In accordance with 310 CMR 7.04(2)(a), 40 CFR Part 75, and/or 40 CFR Part 60 Appendix B., keep and maintain all required Smoke Density Indicator Recording Charts and/or COMS records.
	14. In accordance with 310 CMR 7.19(13)(d)1. and 40 CFR Part 75, maintain a record of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each CEM.
	15. In accordance with 40 CFR Part 75 § 75.53, prepare and maintain a monitoring plan containing sufficient information on the CEMS and COMS to demonstrate that all emissions of SO ₂ , NO _x , CO ₂ , and opacity are monitored and reported. The Permittee shall update the monitoring plan whenever it makes a replacement, modification, or change in the certified CEMS and/or COMS, including a change in the automated data acquisition and handling system or in the flue gas handling system. The monitoring plan shall contain all of the information required by 40 CFR Part 75 § 75.53(c).
	16. In accordance with 40 CFR Part 75 § 75.54, maintain a file of all measurements, data reports, and other information required by 40 CFR Part 75. Said file shall include all information required by 40 CFR Part 75 § 75.74(a)(1) through (6).
	17. In accordance with 310 CMR 7.00 Appendix C(9)(c)1., record operating time of each EU and the date and amount of time that any CEMS or COMS are inoperative.
	18. In accordance with 310 CMR 7.19(13)(d)(3)., record for each unit on a daily basis the type(s) of fuel burned, heat content of each fuel, total heating value of the fuel consumed, actual emission rate (for emission units demonstrating compliance with CEMS), and allowable emission rate for CO and NO _x .
	19. In accordance with 40 CFR §60.334(h)(3), maintain records of valid purchase contract or tariff sheet specifying maximum natural gas sulfur content less than 20 grains per 100scf in accordance with §60.334(h)(3)(i) or maintain records of historical representative fuel sampling data that show the sulfur content of the gaseous fuel does not exceed 20 grains per 100scf in accordance with §60.334(h)(3)(ii).
	20. In accordance with MassDEP Approval #1-B-03-015 (6/9/03), maintain on-site permanent records of output from all continuous monitors for flue gas emission, fuel consumption, water-to-fuel ratios, SCR & CO catalyst inlet temperatures, and CTG inlet & ambient temperatures, and shall make these records available to the MassDEP on request.
	21. In accordance with 310 CMR 7.00 Appendix C(10)(b), maintain on-site permanent records of combined monthly and rolling 12-month fuel use of the fuel consumed for each type of fuel burned.
	22. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) maintain a log to record problems, upsets or failures associated with the emission control system, CEMs, or ammonia handling system.
23. In accordance with MassDEP Approval 1-B-03-015 (6/9/03), maintain for the life of the facility all operating and monitoring records and logs. The Permittee shall make available to the MassDEP for inspection upon request the five most recent years data.	

Table 5c

EU#	RECORDKEEPING REQUIREMENTS
EU 19 EU 20	24. Comply with all applicable recordkeeping requirements contained in 40 CFR Part 60, Subpart GG.
	25. In accordance with MassDEP Approval #WE-14-012 (7/9/14), the Permittee shall maintain a copy of Plan Approval WE-14-012 (7/9/14), underlying Application and the most up-to-date SOMP for EU 19 and EU 20 and pollution control device(s) on-site.
	26. In accordance with MassDEP Approval #WE-14-012 (7/9/14), the Permittee shall maintain a record of routine maintenance activities performed on EU 19 and EU 20, the pollution control device(s) and monitoring equipment. The records shall include, at a minimum, the type or a description of the maintenance performed and the date and time the work was completed.
	27. In accordance with MassDEP Approval #WE-14-012 (7/9/14), the Permittee shall maintain a record of all malfunctions affecting air contaminant emission rates on EU 19 and EU 20, pollution control device(s) and monitoring equipment. At a minimum, the records shall include: date and time the malfunction occurred; description of the malfunction; corrective actions taken; the date and time corrective actions were initiated and completed; and the date and time emission rates and monitoring equipment returned to compliant operation.
	28. In accordance with 40 CFR 72.9, 40 CFR Part 75, and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03], the Permittee shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by EPA or MassDEP; <ul style="list-style-type: none"> a. Certificate of representation for the designated representative for the source and all supporting documents; b. All emissions monitoring information, to the extent that a 3-year retention period applies under 40 CFR 75, the records shall be kept on site for a period of 3 years instead of 5 years; c. Copies of all reports, compliance certifications, and other submissions and all records made or required by the Acid Rain Program.
	29. In accordance with 310 CMR 7.70(1), (2), (8) and Transmittal # X05353 the Permittee shall keep on site at the source all records required under 310 CMR 7.70(1), 310 CMR 7.70(2), and 310 CMR 7.70(8), or unless otherwise states by MassDEP, for a period of 10 years. (State Only Requirement).
	30. In accordance with 310 CMR 7.74(8), the Permittee shall keep on site at the source all records required under 310 CMR 7.74, for a period of 3 years, unless otherwise required by MassDEP. (State Only Requirement)
Facility-wide	31. In accordance with 310 CMR 7.00 Appendix C(10)(b), maintain records of all monitoring data and supporting information on-site for a period of at least five years from the date of the monitoring sample, measurement, report of initial operating permit application.
	32. In accordance with 310 CMR 7.12(3)(c), retain copies of Source Registration and other information supplied to MassDEP to comply with 310 CMR 7.12, which shall be retained by the facility owner or operator for five years from the date of submittal.
	33. In accordance with 310 CMR 7.00 Appendix C(10)(b), record the certification from the fuel supplier for each shipment of jet fuel, #2 fuel oil to be used which shall include the following information: <ul style="list-style-type: none"> a. The name of the oil supplier; b. Percent sulfur content (by weight); and c. The location where the sample was drawn for analysis to determine the sulfur content of the oil, specifically including whether the oil was sampled as delivered to the affected facility or whether the sample was drawn from oil in storage at the oil supplier's or oil refiner's facility or other location. As an alternative, the Permittee may elect to analyze the oil immediately after the fuel storage tank is filled and before any oil is combusted for each new shipment according to methods approved by the MassDEP. These records shall be maintained on-site.

Table 5d	
EU#	RECORDKEEPING REQUIREMENTS
Facility-wide	34. In accordance with 310 CMR 7.71(6)b. and c. the Permittee shall keep on site at the facility documents of the methodology and data used to quantify emissions for a period of 5 years from the date the document is created. The Permittee shall make these documents available to MassDEP upon request. (State Only Requirement)
	35. In accordance with 310 CMR 7.00 Appendix C(10)(b), the Permittee shall maintain comprehensive and accurate records onsite to demonstrate compliance with the facility-wide total and individual HAP emission limits contained in Table 3 above. Records shall also include the actual emissions of air contaminant(s) emitted for each calendar month and for each consecutive twelve-month period (current month plus prior eleven months). These records shall be compiled no later than the 15 th day following each month.

Table 5 Key:

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|---|--|
| EU # = Emission Unit | CO = Carbon Monoxide |
| EGU = Emission Generating Unit | CO ₂ = Carbon Dioxide |
| CFR = Code of Federal Regulations | O ₂ = Oxygen |
| CMR = Code of Massachusetts Regulations | NO _x = Nitrogen Oxides |
| CEMS = Continuous Emissions Monitoring System | SO ₂ = Sulfur Dioxide |
| COMS = Continuous Opacity Monitoring System | SOMP = Standard Operating and Maintenance Procedure |
| CTG = Combustion Turbine Gas Fired | % = Percent |
| HAP = Hazardous Air Pollutant | < = Less Than |
| RICE = Reciprocating Internal Combustion Engine | MassDEP = Massachusetts Department of Environmental Protection |
| SCR = Selective Catalytic Reduction | USEPA = United States Environmental Protection Agency |
| scf = Standard Cubic Feet | |

Table 6a

Table 6a	
EU#	REPORTING REQUIREMENTS
EU 16	<p>1. In accordance with 40 CFR Part 60.48c (d) and (j), submit reports to the USEPA and MassDEP for each six-month period and shall be postmarked by the 30th day following the end of each reporting period. The reports shall include the following information:</p> <ul style="list-style-type: none"> a. Calendar dates covered in the reporting period b. Fuel supplier certifications which shall include: <ul style="list-style-type: none"> 1. The name of the oil supplier; 2. A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in 40 CFR 60.41c; and 3. The sulfur content or maximum sulfur content of the oil. c. A certified statement signed by the Permittee of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period. <p>2. In accordance with 40 CFR 63.11225(b), the Permittee shall prepare, by March 1 of every other year, and submit to MassDEP and the USEPA upon request, a biennial compliance certification report containing the information specified in 40 CFR 63.11225(b)(1) and (2) and as specified below. You must submit the report by March 15 if you had any instance described by paragraph 40 CFR 63.11225(b)(3).</p> <ul style="list-style-type: none"> a. Company name and address. b. Statement by a responsible official, with the official's name, title, phone number, email 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. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official: <ul style="list-style-type: none"> 1) “This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler.” 2) 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.” 3) “This facility complies with the requirement in 40 CFR 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available.”
EU 17	<p>3. In accordance with 310 CMR 7.19(13)(c) and MassDEP Approval # 1-E-94-010 (1/14/1998);</p> <ul style="list-style-type: none"> a. submit a pretest protocol for the required NO_x and CO testing emission test for review and MassDEP approval at least 60 days prior to the anticipated date of testing; and, b. include in the pretest protocol a description of the sampling point locations, sampling equipment, sampling and analytical procedures, and the operating conditions for the required testing. <p>4. In accordance with 310 CMR 7.19(13)(c), submit the emission test report for the review and written MassDEP approval within 60 days of the completion of the annual compliance stack testing.</p> <p>5. In accordance with 310 CMR 7.19(13)(d)(9)., submit compliance records within 10 days of written request by MassDEP and EPA.</p>

Table 6b

Table 6b	
EU#	REPORTING REQUIREMENTS
EU 17	<p>7. In accordance with 310 CMR 7.00: Appendix C(10), the Permittee shall submit a report to the Western Regional Office and to the BAW Air Stationary Source Branch at 1 Winter Street, Boston, MA 02108, by January 30 of each calendar year, which shall contain: 1) the total amounts of ozone season (May 1 through September 30) and non-ozone season (January 1 through April 30 and October 1 through December 31) NO_x ERCs, with supporting calculations, that were necessary for compliance with the emission limitations contained in 310 CMR 7.19(7) in the previous calendar year, and 2) the identity of the source from which NO_x ERCs were obtained, including company name, emission unit and method of generation, date of generation, and the Transmittal Number of the application for certification of NO_x ERCs.</p> <p>8. In accordance with 310 CMR 7.34(4) the Permittee shall electronically submit to the appropriate MassDEP Regional Office and EPA any notification of testing or any testing protocol no later than 21 days prior to the first scheduled day of testing.</p> <p>9. In accordance with 310 CMR 7.34(4)(b) the Permittee shall electronically submit and certify a Quarterly NO_x report to EPA within 30 days following the end of the calendar quarter that falls during the ozone season (May 1st – September 30th).</p>
EU 19 EU 20	<p>10. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-004 (2/8/02), submit to the MassDEP, in a format acceptable to the MassDEP, a quarterly report no later than 30 days beyond the end of the most recent calendar quarter, which minimally contains the following information.</p> <ul style="list-style-type: none"> a. Reports from the facility CEMS containing summary emission data; and b. For each period of excess emissions or excursions from allowable operating conditions, the Permittee shall list the duration, cause (including whether it is attributable to a malfunction or emergency), the response taken, and the amount of excess emissions. Periods of excess emissions shall include periods of startups/shutdowns, malfunction, emergency, and upsets or failures associated with the emission control system or CEMS. c. A tabulation of periods of operation (dispatch). <p>11. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1B-02-004 (2/8/02), ensure that all periods of excess emissions, even if attributable to an emergency/malfunction or startup/shutdown, are quantified and included in the determination of annual emissions and compliance with the annual emission limits as stated herein. Any period of excess emission of CO shall count as a period of excess emission of VOC also.</p> <p>12. In accordance with MassDEP Approvals #WE-14-012 (7/9/14), #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/4/02), submit a stack test protocol (including testing for startup and shutdown emissions, if required by the Department) for review and written Department approval at least 30 days prior to the date of actual testing. The test protocol must be submitted in accordance with MassDEP's "Air Contaminant Emission Test Guidelines."</p> <p>13. In accordance with MassDEP Approvals #WE-14-012 (7/9/14), the Permittee shall submit to MassDEP a final stack emission test results report, within 45 days after emission testing.</p> <p>14. Comply with all applicable reporting requirements contained in 40 CFR Part 60, Subpart GG.</p> <p>15. In accordance with 40 CFR 72.9, 40 CFR Part 75, and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03], the Permittee shall submit to the appropriate MassDEP Regional Office and EPA any notification of testing or any testing protocol.</p> <p>16. In accordance with 40 CFR 72.9, 40 CFR Part 75, and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03], the Permittee shall submit a Quarterly SO₂ report to EPA within 30 days following the end of each calendar quarter.</p> <p>17. In accordance with 40 CFR 72.9, 40 CFR Part 75 and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03], the Permittee shall submit a Quarterly NO_x report to EPA within 30 days following the end of each calendar quarter.</p>

Table 6c

EU#	REPORTING REQUIREMENTS
EU 19 EU 20	<p>18. In accordance with 40 CFR Part 77 and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03], the Permittee shall submit a proposed offset plan in any calendar year where EU19 and EU 20 have excess emissions. 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>19. In accordance with 310 CMR 7.70(8)(d) the Permittee shall submit to the appropriate MassDEP Regional Office and EPA any notification of testing or any testing protocol in compliance with the requirements of 40 CFR 75.61. (State Only Requirement).</p> <p>20. In accordance with 310 CMR 7.70(8)(e)3. and Transmittal # X005353 the Permittee shall submit a Monitoring System certification to the MassDEP WERO Regional Office within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under 310 CMR 7.7(8)(b). (State Only Requirement).</p> <p>21. In accordance with 310 CMR 7.70(4)(a)1. and Transmittal # X005353 the Permittee shall submit a Triennial Compliance Certification Report for each control period electronically in the RGGI CO₂ Allowance Tracking System (COATS) to MassDEP by March 1st of the calendar year following the control period. (State Only Requirement)</p> <p>22. In accordance with 310 CMR 7.70(8)(h)6.c. and Transmittal # X005353, submit an Annual Net Output Report for each calendar year in a spreadsheet both electronically and in hardcopy to MassDEP’s agent in a format prescribed by MassDEP by March 1st of the preceding calendar year. (State Only Requirement)</p> <p>23. In accordance with 310 CMR 7.74(7)(a), the Permittee shall submit to MassDEP by February 1st, 2019 and each February 1st thereafter, a CO₂ Emissions Reports (State Only Requirement).</p> <p>24. In accordance with 310 CMR 7.74(7)(b), the Permittee shall submit to MassDEP by March 1st, 2019 and each March 1st thereafter, a Compliance Certification Report. (State Only Requirement)</p>
Facility -wide	<p>25. Submit a Source Registration/Emission Statement Form to MassDEP on an annual basis as required by 310 CMR 7.12.</p> <p>26. 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.</p> <p>27. In accordance with 310 CMR 7.00 Appendix C(10)(c), submit to the MassDEP two compliance summaries, one by January 30 for the time period July – December of the previous calendar year, and the other by July 30 for the time period January – June of the current calendar year. (See Provision 10 in “GENERAL CONDITIONS FOR OPERATING PERMIT”)</p> <p>28. Submit Annual Compliance report to MassDEP and EPA by January 30 of each year and as required by General Condition 10 of this Permit.</p> <p>29. In accordance with 310 CMR 7.00 Appendix C(10)(a), submit to the MassDEP any record relevant to this operating permit or to the emissions of any air contaminant from the facility within 30 days of the request by the MassDEP or EPA.</p> <p>30. In accordance with 310 CMR 7.00 Appendix C(10)(f), the Permittee shall report to the MassDEP’s Regional Bureau of Waste Prevention all instances of deviations from permit requirements. (See Provision 25 in “GENERAL CONDITIONS FOR OPERATING PERMIT”)</p> <p>31. In accordance with 310 CMR 7.71(5), the Permittee shall electronically submit and certify by April 15th of each year a greenhouse gas emissions report to MassDEP. (State Only Requirement)</p>

Table 6d

Table 6d	
EU#	REPORTING REQUIREMENTS
Facility -wide	32. In accordance with 310 CMR 7.72(4)(c) the Permittee shall submit a Gas-Insulated Switchgear Leal Rate Exceedance Reporting Form by April 15 th of the following year for any active piece of GIS equipment placed under the Permittee’s ownership, lease, operation, or control on or after January 1 st , 2015 that does not meet the 1.0% maximum annual leak rate. (State Only Requirement).

Table 6 Key:

EU # = Emission Unit	CO = Carbon Monoxide
EGU = Electric Generating Unit	CO ₂ = Carbon Dioxide
CFR = Code of Federal Regulations	O ₂ = Oxygen
CMR = Code of Massachusetts Regulations	NO _x = Nitrogen Oxides
CEMS = Continuous Emissions Monitoring System	SO ₂ = Sulfur Dioxide
COMS = Continuous Opacity Monitoring System	SOMP = Standard Operating and Maintenance Procedure
CTG = Combustion Turbine Gas Fired	VOC = Volatile Organic Compounds
b-HP = Brake-Horse Power	ppm = Parts per Million
ERC = Emission Reduction Credits	% = Percent
HAP = Hazardous Air Pollutant	< = Less Than
RICE = Reciprocating Internal Combustion Engine	MassDEP = Massachusetts Department of Environmental Protection
RATA = Relative Accuracy Test Audit	USEPA = United States Environmental Protection Agency
SCR = Selective Catalytic Reduction	

C. GENERAL APPLICABLE REQUIREMENTS

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

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The permittee is currently not subject to the following requirements:

Table 7

REGULATION	DESCRIPTION/REASON
310 CMR 7.16: Reduction of Single Occupant Commuter Vehicle Use	Facility employs fewer than 250 people.
40 CFR Part 64 -Compliance Assurance Monitoring	Facility is exempt since it does not meet the applicability criteria specified in 40 CFR 64.2(a)(1) through (3).

5. SPECIAL TERMS AND CONDITIONS

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

Table 8a

EU#	SPECIAL TERMS AND CONDITIONS
EU 16	1. In accordance with Regulation 310 CMR 7.02(8)(f), continue to be subject to 40 CFR 60 Subpart Dc and operate in compliance with such standard(s).
	2. Emission Unit 16 is subject to the National Emission Standard for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers, 40 CFR Part 63.11193 through 63.11237 and shall comply with all applicable standards by March 21, 2014.
	3. In accordance with 40 CFR 63.11205, at all times operate and maintain EU #16, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
	4. EU 16 is subject to the requirements of 40 CFR 63.1-10,12-16, Subpart A, "General Provisions" [as indicated in Table "8" to Subpart JJJJJ of 40 CFR 63]. Compliance with all applicable provisions therein is required.
EU 17	<p>5. As allowed according to 310 CMR 7.19(2)(g), use Emission Reduction Credits (ERCs) to offset any actual NO_x emissions in excess of allowable NO_x emission limits listed herein. The Permittee shall purchase ERCs as provided in 310 CMR 7.00, Appendix B(3), to offset all actual NO_x emissions in excess of allowable emission limits.</p> <p>The Permittee shall calculate the total amounts of ozone season (May 1 through September 30) and non-ozone season (October 1 through April 30) NO_x ERCs that are necessary for compliance with 310 CMR 7.19, and obtain and use (or retire) ERCs in accordance with the provisions of 310 CMR 7.00: Appendix B(3)(e)2. The calculated needed ERCs shall be rounded up to the nearest ton.</p> <p>In accordance with 310 CMR 7.00 Appendix B(3)(e)2., the Permittee shall obtain and use NO_x ERC equal to five percent (5%) more than the amount needed for the compliance calculation.</p> <p>In accordance with 310 CMR 7.00: Appendix B(3)(e)8., NO_x ERCs generated during the ozone control period of May 1 through September 30 can be used for compliance at any time during the year. However, NO_x ERCs generated during the non-ozone control period of October 1 through April 30 shall only be used for compliance in the same season as generated (October 1 through April 30).</p>
EU 19 EU 20	6. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), not burn Ultra Low Sulfur oil during the time period May 1 through September 30 inclusive of any calendar year, except during initial compliance testing, initial plant demonstration and performance testing, periodic readiness testing, in the event of the unavailability of natural gas, or in the case of a variance obtained from the MassDEP to operate during an emergency.
	7. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), store the standard operating and maintenance procedures for the ammonia handling system in a convenient location (control room/technical library) and make them readily available to all employees.
	8. In accordance with Mass DEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), ensure that the ammonia storage tank employs a water trap or similar device (as described in the plan application materials) so the ammonia emissions during storage, filling, and transfer are insignificantly small compared to stack ammonia emissions.
	9. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), maintain in the facility control room portable ammonia detectors (e.g. draeger tubes or other monitoring instrument) for use during an ammonia spill or atypical atmospheric release.

Table 8b

EU#	SPECIAL TERMS AND CONDITIONS
EU 19 EU 20	10. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), train all personnel to operate the facility monitoring and control equipment in accordance with vendor specifications and all applicable regulations. This training shall be updated at least once annually.
	11. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), maintain on-site for the CEMS equipment an adequate supply of spare parts to maintain the on-line availability and data capture requirements of provision 39 in Table 4f.
	12. In accordance with MassDEP Approval #1-B-03-015 (6/9/03) and #1-B-02-003/004 (2/8/02), comply with all applicable monitoring, testing, reporting and record-keeping requirements, and all applicable operational standards contained in 40 CFR Parts 72 and 75 (Acid Rain Program).
	13. In accordance with MassDEP Approval #1-B-02-004 (2/8/02), post conspicuous signs at the ammonia unloading rack specifying that the vapor recovery system must be used by all trucks unloading product.
	14. In accordance with MassDEP Approval #1-B-02-004 (2/8/02), not allow any trucks to unload product at the ammonia loading rack unless the truck is equipped with a vapor recovery system.
	15. In accordance with MassDEP Approval #1-B-02-004 (2/8/02), incorporate a “surface reduction device” with freeze protection, in the bermed area of the ammonia storage tank to minimize any evaporation of ammonia in the event of an accidental release.
	16. In accordance with MassDEP Approval #1-B-02-003 (2/8/02), ensure there are four test ports (of suitable diameter for use with an EPA Method 5 sample probe) at 90° angles and minimally four feet above the stack test/CEM platform grate. The Method 5 test ports shall be located to conform to the requirements contained in 40 CFR 60 Appendix A, Method 1. The grate platform shall extend 360° around the stack circumference.
	17. In accordance with MassDEP Approval #1-B-02-003 (2/8/02), ensure there are four monorail systems for use at each of the EPA test ports specified above. The monorails shall provide for safe and facile handling of an EPA Method 5 sampling train.
	18. In accordance with MassDEP Approval #1-B-02-003 (2/8/02), ensure that, minimally, two 120-volt ac power plugs are available at/on the sampling platform(s) for access by test team member(s) of sufficient amperage to support operation of an EPA Method 5 sampling train and auxiliaries, as required by a test team.
	19. [STATE ONLY] In accordance with MassDEP Approval #1-B-00-038 (1/19/01), ensure that the facility (new and existing units) shall be operated and maintained such at all times: <ul style="list-style-type: none"> a. No condition of air pollution will be caused by emissions of sound as provided in 310 CMR 7.01; and b. No sound emissions resulting in noise will occur as provided in 310 CMR 7.10 and MassDEP’s Policy 90-001 other than approved herein.
	20. [STATE ONLY] In accordance with MassDEP Approval #1-B-00-038 (1/19/01), accept the MassDEP’s right to require additional measurement periods, locations, or events if in the opinion of the MassDEP such additional measurements are necessary to determine compliance with the Air Pollution Control Regulations.
	21. EU 19 and EU 20 are subject to the federal Standards of Performance for Stationary Gas Turbines, 40 CFR Part 60.330 through 60.335 and shall comply with all applicable standards.

Table 8c

EU#	SPECIAL TERMS AND CONDITIONS															
EU 19 EU 20	<p>22. In accordance with MassDEP Approval #WE-14-012 (7/9/14), EU 19 and EU 20 shall utilize an exhaust stack on each of the emission units that is consistent with good air pollution control engineering practice and that discharges so as to not cause or contribute to a condition of air pollution. The exhaust stack shall be configured to discharge the gases vertically and shall not be equipped with any part or device that restricts the vertical exhaust flow of the emitted gases, including but not limited to rain protection devices known as “shanty caps” and “egg beaters.” The Permittee shall utilize exhaust stacks with the following parameters:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">EU#</th> <th style="text-align: center;">Stack Height Above Ground (feet)</th> <th style="text-align: center;">Stack Inside Exit Dimensions (feet)</th> <th style="text-align: center;">Stack Gas Exit Velocity Range (feet per second)</th> <th style="text-align: center;">Stack Gas Exit Temperature Range (°F)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">179</td> <td style="text-align: center;">12</td> <td style="text-align: center;">86</td> <td style="text-align: center;">849</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">179</td> <td style="text-align: center;">12</td> <td style="text-align: center;">86</td> <td style="text-align: center;">849</td> </tr> </tbody> </table>	EU#	Stack Height Above Ground (feet)	Stack Inside Exit Dimensions (feet)	Stack Gas Exit Velocity Range (feet per second)	Stack Gas Exit Temperature Range (°F)	19	179	12	86	849	20	179	12	86	849
EU#	Stack Height Above Ground (feet)	Stack Inside Exit Dimensions (feet)	Stack Gas Exit Velocity Range (feet per second)	Stack Gas Exit Temperature Range (°F)												
19	179	12	86	849												
20	179	12	86	849												
EU 19 EU 20	<p>23. In accordance with 40 CFR Part 73, Tables 2, 3, or 4 (as amended) and PHASE II ACID RAIN PERMIT [dated 5/20/02 and 1/27/03] the Permittee’s yearly allowance allocations are identified below:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th style="text-align: center;">EU#</th> <th style="text-align: center;">2010 and beyond (annual SO₂ allocation)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">15</td> <td style="text-align: center;">3,012</td> </tr> <tr> <td style="text-align: center;">19</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: center;">20</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	EU#	2010 and beyond (annual SO ₂ allocation)	15	3,012	19	0	20	0							
EU#	2010 and beyond (annual SO ₂ allocation)															
15	3,012															
19	0															
20	0															

Table 8 Key:

EU # = Emission Unit EGU = Emission Generating Unit CFR = Code of Federal Regulations CMR = Code of Massachusetts Regulations CEMS = Continuous Emissions Monitoring System COMS = Continuous Opacity Monitoring System CTG = Combustion Turbine Gas Fired ERC = Emission Reduction Credits RICE = Reciprocating Internal Combustion Engine SCR = Selective Catalytic Reduction MassDEP = Massachusetts Department of Environmental Protection	CO = Carbon Monoxide CO ₂ = Carbon Dioxide O ₂ = Oxygen NO _x = Nitrogen Oxides SO ₂ = Sulfur Dioxide VOC = Volatile Organic Compounds ppm = Parts per Million % = Percent <= Less Than USEPA = United States Environmental Protection Agency
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6. ALTERNATIVE OPERATING SCENARIOS

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

7. EMISSIONS TRADING

Table 10.	
EMISSIONS TRADING	
310 CMR 7.00, Appendix A	Emissions Offsets
310 CMR 7.00, Appendix B	Emission Reduction Credits

(a) Intra-facility emission trading

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

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

(b) Inter-facility emission trading

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

8. COMPLIANCE SCHEDULE

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

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

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 Operating Permit. The report shall be postmarked or delivered by January 30 to the MassDEP and to the Air Compliance Clerk, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

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

B. Semi-Annual Monitoring Summary Report and Certification

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

The compliance certification and report shall describe:

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

11. NONCOMPLIANCE

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

12. PERMIT SHIELD

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

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

- B. The MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.
- C. Nothing in this Permit shall alter or affect the following:
- 1) the liability of the source for any violation of applicable requirements prior to or at the time of Permit issuance.
 - 2) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
 - 3) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

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

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

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

14. PERMIT TERM

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

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

15. PERMIT RENEWAL

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

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

16. REOPENING FOR CAUSE

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

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

17. DUTY TO PROVIDE INFORMATION

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

18. DUTY TO SUPPLEMENT

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

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

19. TRANSFER OF OWNERSHIP OR OPERATION

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

20. PROPERTY RIGHTS

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

21. INSPECTION AND ENTRY

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

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

22. PERMIT AVAILABILITY

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

23. SEVERABILITY CLAUSE

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

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology 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:

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.

- 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:

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

26. OPERATIONAL FLEXIBILITY

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

27. MODIFICATIONS

- A. Administrative Amendments - The Permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).
- B. Minor Modifications - The Permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).
- C. Significant Modifications - The Permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).
- D. No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this Operating Permit. A revision to the Permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an Operating Permit revision under any other applicable requirement.

28. OZONE DEPLETING SUBSTANCES

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

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

- 1) All containers containing a class I or class II substance that is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to 40 CFR 82.106.
 - 2) The placement of the required warning statement must comply with the requirements of 40 CFR 82.108.
 - 3) The form of the label bearing the required warning statement must comply with the requirements of 40 CFR 82.110.
 - 4) No person may modify, remove or interfere with the required warning statement except as described in 40 CFR 82.112.
- B. The Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVAC) in Subpart B:
- 1) Persons opening appliances for maintenance, service, repair or disposal must comply with the required practices of 40 CFR 82.156.
 - 2) Equipment used during the maintenance, service, repair or disposal of appliances must comply with the standards for recycling and recovery equipment of 40 CFR 82.158.
 - 3) Persons performing maintenance, service, repair or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.
 - 4) Persons disposing of small appliances, MVACs and MVAC-like appliances (as defined in 40 CFR 82.152) must comply with recordkeeping requirements of 40 CFR 82.166.
 - 5) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair equipment requirements of 40 CFR 82.156.
 - 6) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.
- C. If the Permittee manufactures, transforms, imports or exports a class I or class II substance, the Permittee is subject to all the requirements as specified in 40 CFR Part 82, Subpart A, "Production and Consumption Controls".
- D. If the Permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, "Servicing of Motor Vehicle Air Conditioners". The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo or system used on passenger buses using HCFC-22 refrigerant.

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

29. PREVENTION OF ACCIDENTAL RELEASES

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

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

30. GAS INSULATED SWITCHGEAR

Pursuant to 310 CMR 7.72(2) *Definitions*:

“Gas Insulated Switchgear or GIS” means all electrical power system equipment insulated with SF₆ gas. Gas-insulated switchgear or GIS includes switches, stand-alone gas-insulated equipment, and any combination of electrical disconnects, fuses, electrical transmission lines, transformers and/or circuit breakers used to isolate gas-insulated electrical power system equipment.

The Permittee shall comply with the following requirements under 310 CMR 7.72 for any GIS purchased after January 1st, 2015:

- Ensure that the GIS has a maximum annual SF₆ leak rate of 1%, as represented by the manufacturer
- Maintain the GIS in accordance with maintenance procedures or industry best management practices that have the effect of reducing leakage of SF₆ (310 CMR 7.72(4)(b))
- If, beginning with the second time that a GIS owner adds SF₆ to a GIS unit, or group of commonly-owned, leased, operated, or controlled GIS, the GIS owner becomes aware that the annual average leakage rate for the new GIS equipment is greater than 1%, the GIS owner must inform MassDEP and describe actions that are expected to reduce the emission rate in the future (310 CMR 7.72(4)(c))
- Record, no less than annually, the amount of SF₆ added to each piece of active GIS equipment (310 CMR 7.72(8)(b)).

The Permittee shall comply with the following requirements under 310 CMR 7.72 for any GIS regardless of purchase date:

- Upon removal of any GIS containing SF₆ from the ownership, lease, operation, or control of a GIS owner, the GIS owner must provide for the secure storage, re-use, recycling, or destruction of the SF₆ (310 CMR 7.72(4)(d)).

This is a state only 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.