



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE  
GOVERNOR

DARRYL N. BROWN  
COMMISSIONER

St. Mary's Regional Medical Center  
Androscoggin County  
Lewiston, Maine  
A-146-71-P-R (SM)

Departmental  
Findings of Fact and Order  
Air Emission License

After review of the air emissions license renewal application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., §344 and §590, the Department finds the following facts:

**I. REGISTRATION**

A. Introduction

1. St. Mary's Regional Medical Center (St. Mary's) has applied to renew their Air Emission License permitting the operation of emission sources associated with their health care facility.
2. The equipment addressed in this license is located at 91 Campus Avenue, Lewiston, Me.

B. Emission Equipment

**Boilers**

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate</u>	<u>Fuel Type, % sulfur</u>	<u>Stack #</u>
Central Plant Boiler #1	6.1	43.6 gal/hr 5.9 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	1
Central Plant Boiler #2	14.3	102 gal/hr 14 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	1
Central Plant Boiler #3	14.3	102 gal/hr 14 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	1
Central Plant Boiler #4	14.3	102 gal/hr 14 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	1
d'Youville Boiler #1	3.35	25 gal/hr 3.2 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	2
d'Youville Boiler #2	3.35	25 gal/hr 3.2 cft <sup>3</sup> /hr	#2 Fuel Oil, 0.5%S Natural Gas, Neg.	3

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
(207) 287-7688 FAX: (207) 287-7826  
RAY BLDG., HOSPITAL ST.

BANGOR  
106 HOGAN ROAD, SUITE 6  
BANGOR, MAINE 04401  
(207) 941-4570 FAX: (207) 941-4584

PORTLAND  
312 CANCO ROAD  
PORTLAND, MAINE 04103  
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE  
1235 CENTRAL DRIVE, SKYWAY PARK  
PRESQUE ISLE, MAINE 04679-2094  
(207) 764-0477 FAX: (207) 760-3143

**Electrical Generation Equipment**

<u>Equipment</u>	<u>Horse Power (HP)</u>	<u>Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>
CP Emer. Gen. #1 (CAT 3412)	800	7.8	#2 Fuel Oil, 0.5% S
CP Emer. Gen. #2 (CAT 3412)	800	7.8	#2 Fuel Oil, 0.5% S
d'Youville Pavilion Emer. Gen.	150	1.46	Diesel, 0.05% S
Maison Marcotte Emer. Gen.	180	1.76	Natural Gas

St. Mary's also operates fuel burning equipment which has been determined to be insignificant by size pursuant to 06-096 CRM 115 (as amended).

C. Application Classification

The application for St. Mary's does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (as amended). With the fuel limit on the boilers and the operating hours restriction on the four Emergency Generators, St. Mary's is licensed below the major source thresholds and is considered a synthetic minor.

**II. BEST PRACTICAL TREATMENT (BPT)**

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in *Definitions Regulation*, 06-096 CMR 100 (as amended). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Central Plant Boilers #1, #2, #3 and #4

All four Central Plant Boilers are Scotch Marine boilers installed in 1999; each is capable of firing either #2 fuel oil or natural gas.

Boiler #1 has a heat input capacity of 6.1 MMBtu/hr, and is therefore not subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, for units greater than 10 MMBtu/hr manufactured after June 9, 1989.

Boilers #2, #3 and #4 each have a heat input capacity of 14.3 MMBtu/hr, and are therefore subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, for units greater than 10 MMBtu/hr manufactured after June 9, 1989.

A summary of the BPT analysis for Boiler #1 and Boilers #2, #3 and #4 is the following:

For firing #2 fuel oil:

1. The total fuel use for the facility shall not exceed 550,000 gallons per year of ASTM D396 #2 fuel oil, based on a 12-month rolling total, with a maximum sulfur content not to exceed 0.5% by weight.
2. *Low Sulfur Fuel*, 06-096 CMR 106 (as amended) regulates fuel sulfur content, however in this case BPT determined a more stringent limit of 0.5% was appropriate and shall be used.
3. *Fuel Burning Equipment Particulate Emission Standard*, 06-096 CMR 103 (as amended) regulates PM emission limits. However, BPT analysis for PM determined a more stringent limit of 0.1 lb/MMBtu was appropriate and shall be used. The PM<sub>10</sub> limits are derived from the PM limits.
4. NO<sub>x</sub> emission limits are based on data from similar #2 oil fired boilers of this size and age.
5. CO and VOC emission limits are based upon AP-42 data dated 9/98.
6. Visible emissions from the combined stack (Stack #1) serving the four boilers shall not exceed 20 percent opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous three (3) hour period.

For firing natural gas:

1. Total natural gas use for the facility shall not exceed 200,000,000 scf per year based on a 12-month rolling total.
2. PM, SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC emission limits are based upon AP-42 data dated 7/98.
3. Visible emissions from the combined stack (Stack #1) serving the four boilers shall not exceed 10 per cent opacity on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a continuous three (3) hour period.

C. D'Youville Pavilion Boilers #1 and #2

The d'Youville Pavilion Boilers #1 and #2 are Cleaver Brooks CB2000 boilers, installed in 2010; each boiler has a maximum input capacity of 3.35 MMBtu per hour firing either #2 fuel oil or natural gas.

Because of their rated heat input capacity, these boilers are not subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, for units greater than 10 MMBtu/hr manufactured after June 9, 1989.

A summary of the BPT analysis for Boilers #1 and #2 is the following:

For firing #2 fuel oil:

1. The total fuel use for the d'Youville pavilion shall not exceed 150,000 gallons per year of ASTM D396 compliant #2 fuel oil, based on a 12-month rolling total, with a maximum sulfur content not to exceed 0.5% by weight.
2. *Low Sulfur Fuel*, 06-096 CMR 106 (as amended) regulates fuel sulfur content, however in this case BPT determined a more stringent limit of 0.5% was appropriate and shall be used.
3. *Fuel Burning Equipment Particulate Emission Standard*, 06-096 CMR 103 (as amended) regulates PM emission limits. However, BPT analysis for PM determined a more stringent limit of 0.08 lb/MMBtu was appropriate and shall be used. The PM<sub>10</sub> limits are derived from the PM limits.
4. CO and VOC emission limits are based upon AP-42 data dated 9/98.
5. Visible emissions from the stacks serving each of d'Youville boilers shall not exceed 20 percent opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block average in a continuous three (3) hour period.

For firing natural gas:

1. Total natural gas use for the facility shall not exceed 200,000,000 scf per year based on a 12-month rolling total.
2. PM, SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC emission limits are based upon AP-42 data dated 7/98.
3. Visible emissions from the stacks serving each of d'Youville boilers shall not exceed 10 percent opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block average in a continuous three (3) hour period.

D. Emergency Generators

St. Mary's operates a total of four emergency generators. The two Central Plant Generators are 800 kW Caterpillar 3412 models, with a maximum input capacity of 7.8 MMBtu/hr, and were installed in 2000. The generators draw fuel from a tank common to the Central Plant Boilers, therefore they fire #2 fuel oil.

The d'Youville Pavilion Generator is a 150 kW Kohler generator, with a maximum input capacity of 1.46 MMBtu/hour firing diesel fuel with a maximum sulfur content of 0.05%, and was installed in 1984.

The Maison Marcotte Generator is a 180 kW Kohler generator, with a maximum input capacity of 1.76 MMBtu/hour firing natural gas, and was installed in 1995.

As each of these generators was ordered and installed before July 11, 2005, they are not subject to New Source Performance Standards 40 CFR Part 60, Subpart III, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*.

None of these Emergency Generators is subject to the provisions 40 CFR Part 63, Subpart ZZZZ, because of the nature of St. Mary's operations. Subpart ZZZZ (63.6590(b)(3)) excludes residential, institutional and commercial uses; health care facilities are defined as an institutional use.

Emergency Generators are only to be operated for situations arising from sudden and reasonably unforeseeable events beyond the control of the source, and for maintenance purposes. Emergency generators are not to be used for prime power when reliable offsite power is available.

A summary of the BPT analysis for the Emergency Generators is the following:

1. The Central Plant Emergency Generators #1 and #2 shall fire only ASTM D396 #2 fuel with a maximum sulfur content not to exceed 0.5% by weight.
2. The d'Youville Emergency Generator shall fire only diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.
3. The Maison Marcotte Emergency Generator shall fire only natural gas.
4. The Emergency Generators shall each be limited to 500 hours per year of operation based on a 12-month rolling total. Compliance shall be demonstrated by a written log of all generator operating hours.
5. 06-096 CMR 106 regulates fuel sulfur content, however in this case a BPT analysis for SO<sub>2</sub> determined a more stringent limit of 0.5% was appropriate and shall be used for Central Plant Emergency Generators #1 and #2.
6. 06-096 CMR 106 regulates fuel sulfur content, however in this case a BPT analysis for SO<sub>2</sub> determined a more stringent limit of 0.05% was appropriate and shall be used for the d'Youville Pavilion Emergency Generator.
7. 06-096 CMR 103 regulates PM emission limits. The PM<sub>10</sub> limits are derived from the PM limits.
8. NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 10/96.
9. Visible emissions from the Central Plant Emergency Generators #1 and #2, and the d'Youville Pavilion Emergency Generator shall each not exceed 20 percent opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period.
10. Visible emissions from the Maison Marcotte Emergency Generator shall not exceed 10 percent opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period.

E. Annual Emissions

St. Mary's shall be restricted to the following annual emissions, fuel use and operating limits, based on a 12- month rolling total:

- a fuel limit of 550,000 gallons per year of #2 fuel oil with a maximum sulfur content of 0.5% by weight, fired in the Central Plant boilers,
- a fuel limit of 150,000 gallons per year of #2 fuel oil with a maximum sulfur content of 0.5% by weight, fired in the d'Youville Pavilion boilers,
- an operating limit of 500 hours per year for each of the Emergency Generators.

**Total Licensed Annual Emissions for the Facility**  
**Tons per Year**  
(Used to calculate the annual license fee)

	PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC
Central Plant Boilers – firing #2	3.46	3.46	12.20	12.11	1.24	0.08
C. P. Generators 1 & 2 – firing #2	0.47	0.47	1.38	12.48	3.32	0.32
d'Youville Boilers – firing #2	1.05	1.05	5.29	3.68	0.38	0.03
d'Youville Generator – firing diesel	0.12	0.12	0.02	1.61	0.35	0.13
Natural gas – facility total – including Maison Marcotte Gener.	0.76	0.76	0.06	11.75	8.61	0.60
<b>Total TPY</b>	<b>5.9</b>	<b>5.9</b>	<b>17.4</b>	<b>41.6</b>	<b>13.9</b>	<b>1.2</b>

### III. AMBIENT AIR QUALITY ANALYSIS

St. Mary's previously submitted an ambient air quality analysis demonstrating that emissions from the facility, in conjunction with all other sources, do not violate ambient air quality standards. An additional ambient air quality analysis is not required for this renewal.

### ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-146-71-P-R subject to the following conditions:

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

**STANDARD CONDITIONS**

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 M.R.S.A. §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [06-096 CMR 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 CMR 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 CMR 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353. [06-096 CMR 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 CMR 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 CMR 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 CMR 115]

- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [06-096 CMR 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [06-096 CMR 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    - 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    - 2. pursuant to any other requirement of this license to perform stack testing.
  - B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
  - C. submit a written report to the Department within thirty (30) days from date of test completion.  
[06-096 CMR 115]
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and

- B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
- C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[06-096 CMR 115]

- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [06-096 CMR 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 CMR 115]
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [06-096 CMR 115]

**SPECIFIC CONDITIONS**

(16) **Central Plant Boilers #1, #2, #3 and #4**

- A. The Central Plant Boilers are licensed to fire ASTM D396 #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight, or natural gas.
- B. Total fuel use for the Central Plant Boilers shall not exceed 550,000 gallons per year of ASTM D396 #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight. Compliance shall be demonstrated by fuel records from the supplier showing the quantity of fuel delivered and the percent sulfur of the fuel. Records of annual fuel use shall be kept on a 12-month rolling total basis. [06-096 CMR 115, BACT]
- C. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
Boiler #1	PM	0.1	06-096 CMR 103(2)(B)(1)(a)
Boiler #2	PM	0.1	06-096 CMR 103(2)(B)(1)(a)
Boiler #3	PM	0.1	06-096 CMR 103(2)(B)(1)(a)
Boiler #4	PM	0.1	06-096 CMR 103(2)(B)(1)(a)

- D. Emissions shall not exceed the following [06-096 CMR 115, BPT]:

Emission Unit	Fuel Type	PM (lb/hr)	PM <sub>10</sub> (lb/hr)	SO <sub>2</sub> (lb/hr)	NO <sub>x</sub> (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler #1	#2 fuel	0.61	0.61	2.15	2.14	0.22	0.02
	Natural gas	0.05	0.05	0.01	0.60	0.50	0.03
Boiler #2	#2 fuel	1.43	1.43	5.04	5.01	0.51	0.04
	Natural gas	0.11	0.11	0.01	1.40	1.18	0.08
Boiler #3	#2 fuel	1.43	1.43	5.04	5.01	0.51	0.04
	Natural gas	0.11	0.11	0.01	1.40	1.18	0.08
Boiler #4	#2 fuel	1.43	1.43	5.04	5.01	0.51	0.04
	Natural gas	0.11	0.11	0.01	1.40	1.18	0.08

- E. When firing #2 fuel oil, visible emissions from the common stack (Stack #1) serving the Central Plant Boilers shall not exceed 20 percent opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]
- F. When firing natural gas, visible emissions from the common stack (Stack #1) serving the Central Plant Boilers shall not exceed 10 percent opacity on a six (6) minute block average, except for no more than one (1), six (6) minute block average in a continuous 3-hour period. [06-096 CMR 101]

(17) **New Source Performance Standards for Dc Boilers**

Central Plant Boilers #2, #3 and #4 are subject to Federal New Source Performance Standards, Subpart Dc. St. Mary's shall comply with all requirements of 40 CFR Part 60, Subpart Dc including, but not limited to, the following:

- A. St. Mary's shall record and maintain records of the amounts of each fuel combusted during each day.
- B. St. Mary's shall submit to EPA and the Department semi-annual reports. These reports shall include the calendar dates covered in the reporting period and records of fuel supplier certifications. The semi-annual reports are due within 30 days of the end of each 6-month period.
- C. The following address for EPA shall be used for any reports or notifications required to be copied to them:

Compliance Clerk  
USEPA Region 1  
1 Congress Street  
Suite 1100  
Boston, MA 02114-2023

(18) **d'Youville Pavilion Boilers #1 and #2**

- A. The d'Youville Pavilion Boilers are licensed to fire ASTM D396 #2 fuel oil with a maximum sulfur content not to exceed 0.5%, and natural gas.
- B. Total fuel use for d'Youville Pavilion Boilers #1 and #2 shall not exceed 150,000 gallons per year of #2 fuel oil, with a maximum sulfur content of 0.5% by weight, based on a 12-month rolling total. Compliance shall be demonstrated by fuel records showing the quantity of fuel delivered and the percent sulfur content of the fuel. [06-096 CMR 115, BACT]
- C. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
d'Youville Boiler #1	PM	0.08	06-096 CMR 103
d'Youville Boiler #2	PM	0.08	06-096 CMR 103

D. Emissions shall not exceed the following [06-096 CMR 115, BACT]:

Emission Unit	Fuel	PM (lb/hr)	PM <sub>10</sub> (lb/hr)	SO <sub>2</sub> (lb/hr)	NO <sub>x</sub> (lb/hr)	CO (lb/hr)	VOC (lb/hr)
d'Youville Boiler #1	#2	0.34	0.34	1.69	1.17	0.12	0.01
	NG	0.02	0.02	0.01	0.33	0.28	0.02
d'Youville Boiler #2	#2	0.34	0.34	1.69	1.17	0.12	0.01
	NG	0.02	0.02	0.01	0.33	0.28	0.02

- E. When firing #2 fuel oil, visible emissions from the d'Youville Pavilion Boilers #1 and #2 shall each not exceed 20 per cent opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]
- F. When firing natural gas, visible emissions from the d'Youville Pavilion Boilers #1 and #2 shall each not exceed 10 per cent opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block average in a continuous 3-hour period. [06-096 CMR 101]

(19) **Emergency Generators**

- A. St. Mary's shall limit each of the four Emergency Generator to 500 hours per year of operation based on a 12-month rolling total. An hour meter shall be maintained and operated on each Emergency Generator. [06-096 CMR 115, BPT]
- B. The Emergency Generators shall only be operated for situations arising from sudden and reasonably unforeseeable events beyond the control of the source maintenance purposes and for maintenance purposes. The Emergency Generators shall not be used for prime power when reliable offsite power is available. A log shall be maintained documenting the date, time, and reason for operation of each generator. [06-096 CMR 115, BACT]
- C. The Central Plant Emergency Generators #1 and #2 shall fire ASTM D396 #2 fuel oil with a sulfur limit not to exceed 0.5% by weight. Compliance shall be based on fuel records from the supplier showing the quantity of fuel delivered and the percent sulfur of the fuel. [06-096 CMR 115, BPT]
- D. The d'Youville Pavilion Emergency Generator shall fire only diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.
- E. The Maison Marcotte Emergency Generator shall fire only natural gas.
- F. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
C.P. Emer. Gen.1	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
C.P. Emer. Gen.2	PM	0.12	06-096 CMR 103(2)(B)(1)(a)

G. Emissions shall not exceed the following [06-096 CMR 115, BACT]:

Emission Unit	PM (lb/hr)	PM <sub>10</sub> (lb/hr)	SO <sub>2</sub> (lb/hr)	NO <sub>x</sub> (lb/hr)	CO (lb/hr)	VOC (lb/hr)
C. P. Emer. Gen. #1	0.94	0.94	2.75	24.96	6.63	0.64
C. P. Emer. Gen. #2	0.94	0.94	2.75	24.96	6.63	0.64
d'Youville Emer. Gen.	0.45	0.45	0.08	6.44	1.39	0.51
Maison Marcotte Gen.	0.01	0.01	0.01	7.18	0.98	0.21

H. Visible emissions from Central Plant Emergency Generators #1 and #2 and the d'Youville Pavilion Emergency Generator shall each not exceed 20 percent opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]

I. Visible emissions from the Maison Marcotte Emergency Generator shall not exceed 10 percent opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]

(20) **Facility Natural Gas Limit**

St. Mary's shall not exceed 200,000,000 scf of natural gas on a 12-month rolling total. Compliance shall be demonstrated by purchase and use records maintained on a 12-month rolling total basis. [06-096 CMR 115, BACT]

(21) **Annual Emission Statement**

In accordance with *Emission Statements*, 06-096 CMR 137 (as amended), the licensee shall annually report to the Department the information necessary to accurately update the State's emission inventory by means of:

- 1) A computer program and accompanying instructions supplied by the Department; or

- 2) A written emission statement containing the information required in 06-096 CMR 137.

Reports and questions should be directed to:

Criteria Emission Inventory Coordinator,  
Maine DEP,  
Bureau of Air Quality,  
17 State House Station,  
Augusta, ME 04333-0017

Phone: (207) 287-2437

The emission statement must be submitted as specified by the date in 06-096 CMR 137.

- (22) St. Mary's shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (38 M.R.S.A. §605).

DONE AND DATED IN AUGUSTA, MAINE THIS 17th DAY OF March, 2011.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:



DARRYL N. BROWN, COMMISSIONER

**The term of this license shall be five (5) years from the signature date above.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 01/12/11

Date of application acceptance: 01/18/11

Date filed with the Board of Environmental Protection:

This Order prepared by N. Lynn Cornfield, Bureau of Air Quality.



