



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID P. LITTELL  
COMMISSIONER

MaineGeneral Health  
North Augusta Cancer Center  
Kennebec County  
Augusta, Maine  
A-935-71-B-M

Departmental  
Findings of Fact and Order  
Air Emission License  
Amendment #1

After review of the air emissions license amendment 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. MaineGeneral Health (MaineGeneral) of Augusta, Maine was issued Air Emission License A-935-71-A-N on March 17, 2006, permitting the operation of emission sources associated with the North Augusta Cancer Center, a Health Care facility.
2. The equipment addressed in this license is located at 361 Old Belgrade Road, Augusta, Maine.
3. MaineGeneral has requested a minor revision to their license in order to increase its annual fuel use limit from 75,000 gallons to 200,000 gallons. The original fuel use limit was underestimated during the design phase of the cancer center project.

B. Emission Equipment

The following equipment is addressed in this air emission license:

**Boilers**

<u>Equipment</u>	<u>Maximum Capacity (MMBtu/hr)</u>	<u>Maximum Firing Rate (gal/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Stack #</u>
Boiler #1	3.3	23.5	#2 fuel oil, 0.35%S	1
Boiler #2	3.3	23.5	#2 fuel oil, 0.35%S	1
Generator #1	4.4	32	Diesel, 0.05%S	2

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17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
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RAY BLDG., HOSPITAL ST.

BANGOR  
106 HOGAN ROAD  
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 04769-2094  
(207) 764-0477 FAX: (207) 760-3143

C. Application Classification

This amendment will increase emissions by less than 4 ton/year for each single pollutant and less than 8 ton/year for all pollutants combined. Therefore, this modification is determined to be a minor revision and has been processed as such.

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as defined in the Department's regulations. The emission increases are determined by subtracting the current licensed emissions preceding the modification from the maximum future licensed allowed emissions, as follows:

<u>Pollutant</u>	<u>Current License (TPY)</u>	<u>Future License (TPY)</u>	<u>Net Change (TPY)</u>	<u>Sig. Level</u>
PM	0.56	1.26	0.70	100
PM <sub>10</sub>	0.56	1.26	0.70	100
SO <sub>2</sub>	1.92	5.00	3.08	100
NO <sub>x</sub>	6.16	8.34	2.18	100
CO	1.24	1.55	0.31	100
VOC	0.41	0.4	0.02	50

This modification is determined to be a minor modification and has been processed as such.

**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 60-096 CMR 100 of the Department regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas. BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in 06-096 CMR 100 of the Department's regulations. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

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. Annual Emissions

MaineGeneral shall be restricted to the following annual emissions, based on a 12 month rolling total. Annual emissions are calculated based on the following:

- 200,000 gallons per year of ASTM D396 #2 fuel (0.35% sulfur by weight) to be fired in Boilers #1 and #2; and
- 500 hours per year operation of Generator #1, firing diesel fuel with a sulfur content of 0.05% by weight.

**Total Licensed Annual Emissions for the Facility**

**Tons/year**

(Used to calculate the annual license fee)

	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC</b>
Boilers	1.12	1.12	4.94	3.50	0.50	0.03
Generator #1	0.14	0.14	0.06	4.84	1.05	0.40
<b>Total</b>	<b>1.26</b>	<b>1.26</b>	<b>5.00</b>	<b>8.34</b>	<b>1.55</b>	<b>0.43</b>

**III. AMBIENT AIR QUALITY ANALYSIS**

According to 06-096 CMR 115, the level of air quality analysis required for a minor source shall be determined on a case-by-case basis. Based on the information available in the file, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

### ORDER

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

- will receive Best Practice 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-935-71-B-M, subject to the conditions found in Air Emission License A-935-71-A-N, and 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.

### SPECIFIC CONDITIONS

The following shall replace Condition (16) in Air Emission License A-935-71-A-N.

**(16) Boilers #1 and #2**

- A. Total fuel use for Boilers #1 and #2 shall not exceed 200,000 gallons/year of ASTM D396 #2 fuel oil with a maximum sulfur content not to exceed 0.35% 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, BPT]
- B. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
Boiler #1	PM	0.08	06-096 CMR 103, Section 2(B)(1)(a)
Boiler #2	PM	0.08	06-096 CMR 103, Section 2(B)(1)(a)

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

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)
Boiler #1	0.27	0.27	1.17	0.83	0.12	0.01
Boiler #2	0.27	0.27	1.17	0.83	0.12	0.01

D. Visible emissions from stack #1 shall not exceed 30% opacity on a 6-minute block average, except for no more than three 6-minute block averages in a continuous 3-hour period. [06-096 CMR 101]

DONE AND DATED IN AUGUSTA, MAINE THIS *18th* DAY OF *June*, 2009.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: *James P. Little*  
DAVID P. LITTLE, COMMISSIONER

**The term of this amendment shall be concurrent with the term of Air Emission License A-935-71-A-N.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 12/9/08

Date of application acceptance: 12/18/08

Date filed with the Board of Environmental Protection:

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

