

**Rumford Paper Company  
Oxford County  
Rumford, Maine  
A-214-77-3-A**

**Departmental  
Findings of Fact and Order  
New Source Review  
Amendment #2**

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

FACILITY	Rumford Paper Company (The Mill)
CURRENT PART 70 LICENSE NUMBER	A-214-70-A-I
LICENSE TYPE	06-096 CMR 115, Minor Modification
NAICS CODES	322121
NATURE OF BUSINESS	Pulp & Paper Mill
FACILITY LOCATION	Rumford, Maine
NSR AMENDMENT ISSUANCE DATE	

A. New Emission Equipment

The Mill has proposed adding the following new emission units:

<b><u>Equipment</u></b>	<b><u>Maximum Capacity (MMBtu/hr)</u></b>	<b><u>Maximum Firing Rate (scf/hr)</u></b>	<b><u>Fuel Type, % sulfur</u></b>
NG Unit RB	10.0	9,709	Natural Gas, negligible

B. Application Classification

The modification of a major source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Increase Levels" as given in Maine's Air Regulations.

The emission increases are determined by subtracting the average actual emissions of the two calendar years preceding the modification from the maximum future license allowed emissions for any equipment affected by the change. In this case, the Mill is proposing the installation of new equipment and

therefore there were no emissions from previous years and the permitted emissions from these units are compared directly to the Significance Level.

<u>Pollutant</u>	<u>New Equipment (TPY)</u>	<u>Sig. Level</u>
PM	0.1	25
PM <sub>10</sub>	0.1	15
SO <sub>2</sub>	0.0	40
NO <sub>x</sub>	2.5	40
CO	2.5	100
VOC	0.1	40

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 06-096 CMR 100. 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. BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

### A. NG Unit RB

The Mill proposes to install a natural gas fired heater in the B Recovery Boiler Building. It is anticipated that this air heater will be operated from October 1 to May 1 to provide building heat during the cold weather months.

The Mill included in their amendment application dated October 11, 2007 a Best Available Control Technology (BACT) analysis. Due to the small size of the unit and the fuel for which it was designed to fire, BACT was determined to be good combustion control, the use of natural gas fuel and the emission limitations listed in the Order section of this amendment.

Streamlining

Particulate Matter

The Mill accepts streamlining for particulate matter requirements. *Fuel Burning Equipment Particulate Emission Standard*, 06-096 CMR 103 (last amended November 3, 1990) and Best Available Control Technology (BACT) requirements are applicable. The BACT particulate matter limit is more stringent. Therefore, only the more stringent BACT particulate matter limit is included in this license.

B. Annual Emissions

**Total Allowable Annual Emission for the Facility**  
(used to calculate the annual license fee)

	PM	PM <sub>10</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	VOC	Cl <sub>2</sub>	ClO <sub>2</sub>
Power Boiler #3	65.7	65.7	341.6	525.6	262.8	19.7	-	-
Power Boiler #5	65.7	65.7	341.6	525.6	262.8	19.7	-	-
Power Boiler #6	82.8	82.8	772.6	1,655.6	1,090.0	22.1	-	-
Power Boiler #7	82.8	82.8	772.6	1,655.6	1,090.0	22.1	-	-
Lime Kiln	105.1	105.1	100.7	227.8	170.8	8.8	-	-
Recovery Boiler	379.7	284.7	903.6	941.7	972.4	16.2	-	-
Smelt Tank C	70.1	69.2	24.1	-	-	-	-	-
Dryers	15.2	15.2	0.1	19.6	2.7	0.7	-	-
Air Heaters	2.0	2.0	0.1	40.6	40.6	2.2	-	-
Cogen Emerg Gen	0.1	0.1	0.1	1.6	0.4	0.1	-	-
R15 Emerg Gen	0.1	0.1	0.1	1.4	0.3	0.1	-	-
Mill Emerg Gen	0.2	0.2	0.1	4.4	1.2	0.1	-	-
Fire Pump	0.1	0.1	0.1	2.5	0.5	0.2	-	-
Bleach Plant	-	-	-	-	-	-	13.1	13.1
<b>Total TPY</b>	<b>869.6</b>	<b>773.7</b>	<b>3,257.4</b>	<b>5,575.0</b>	<b>3894.5</b>	<b>112.0</b>	<b>13.1</b>	<b>13.1</b>

**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-214-77-3-A pursuant to the preconstruction licensing requirements of 06-096 CMR 115 and subject to the standard and special conditions below.

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.

**The following are new Conditions:**

- (1) NG Unit RB
  - A. NG Unit RB shall fire only natural gas. Records of annual fuel use shall be kept. [06-096 CMR 115, BACT]
  - B. NG Unit RB shall not exceed an operational limit of 5,040 hours per year. Compliance shall be demonstrated by records of the first and last operating days in each heating season. [06-096 CMR 115, BACT]
  - C. Emissions shall not exceed the following [06-096 CMR 115, BACT]:

Equipment		PM	PM <sub>10</sub>	NO <sub>x</sub>	CO	VOC
NG Unit RB	lb/MMBtu	0.005	-	-	-	-
	lb/hr	0.05	0.05	0.99	0.99	0.05

D. Visible emissions from NG Unit RB shall each not exceed 10% 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]

DONE AND DATED IN AUGUSTA, MAINE THIS                      DAY OF                      2007.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAVID P. LITTELL, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 10/12/07

Date of application acceptance: 10/18/07

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This Order prepared by Lynn Ross, Bureau of Air Quality.