



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI
GOVERNOR

DAVID P. LITTELL
COMMISSIONER

**Lincoln Paper and Tissue, LLC.
Penobscot County
Lincoln, Maine
A-177-77-3-A**

**Departmental
Findings of Fact and Order
Regional Haze
Best Available Retrofit Technology
Determination**

After 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, § 582, § 590 and § 603, the Department finds the following facts:

I. Registration

A. Introduction

FACILITY	Lincoln Paper and Tissue (LPT)
INITIAL LICENSE NUMBER	A-177-70-A-I
LICENSE TYPE	BART Determination
NAICS CODES	322121
NATURE OF BUSINESS	Pulp and Paper Mill
FACILITY LOCATION	Lincoln, Maine
DETERMINATION ISSUANCE DATE	January 9, 2008

Best Available Retrofit Technology (BART) is defined in 38 MRSA §582, sub-§5-C as an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each visibility-impairing air pollutant that is emitted by an existing stationary facility. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and non-air quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility that may reasonably be anticipated to result from the use of such technology.

A facility is determined to have BART eligible emission units if the following criteria outlined in the Regional Haze Rule found in 40 CFR, Part 51 are met:

1. The facility falls into one the 26 source specific categories identified in the Clean Air Act (CAA) of 1977,

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AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
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

2. The facility has emission units that entered operation in the 15 years prior to the adoption of the CAA, and
3. The facility has the potential to emit more than 250 tons/year of a single visibility impairing pollutant from units that fall under criteria #2.

Per 38 MRSA §603-A, sub-§8; for those BART eligible units determined by the Department to require additional sulfur air pollution controls to improve visibility, the controls must:

1. Be installed and operational no later than January 1, 2013; and
2. Either:
 - a. Require the use of oil having 1% or less of sulfur by weight; or,
 - b. Be equivalent to a 50% reduction in sulfur dioxide emissions from a BART eligible unit based on a BART eligible unit source emission baseline determined by the Department under 40 CFR, Section 51.308 (d)(3)(iii)(2006) and 40 CFR, Section 51, Appendix Y (2006); or,
 - c. Require an SO₂ emissions limit of 250 tons per year from the BART eligible unit.

B. Emission Equipment

The following emission unit is determined to be BART eligible under 40 CFR, Part 51:

CAA Source Specific Category	Emission Unit	Unit Capacity	Date of Start-up
Kraft Mill	Recovery Boiler #2	1.9 MMlb BLS/day Supports 650 ADTPD * (oil heat input of 500 MMBtu/hr)	1972

* Air dried tons per day

II. EMISSION UNITS AND CONTROL EQUIPMENT DESCRIPTION

A. Recovery Boiler #2

Recovery Boiler #2 was manufactured by Babcock and Wilcox in 1972. The unit is licensed to limit heat input capacity to 1.9 million pounds (MMlbs) of dry black liquor solids (BLS) per day or 500 MMBtu/hr of #6 fuel oil. The Recovery Boiler is used to recover chemicals and produce steam. Emissions exit through two identical 175 foot stacks. The recovery boiler is a straight fire unit burning black

liquor, typically without combustion support from fossil fuel. Typically, oil is used only during start-ups, shutdowns and to stabilize operation of the boiler.

The Recovery Boiler is exhausted to a wet bottom electrostatic precipitator (ESP) to control particulate emissions. This unit also serves to re-introduce salt cake into the black liquor which further concentrates the solids content.

BART Determination

1. PM
LPT shall control PM and PM10 emissions from the recovery boiler by using an ESP to achieve the BACT emission level of 0.044 grains per dry standard cubic foot (0.044 gr/dscf) corrected to 8% oxygen.
2. SO₂
SO₂ emissions from the recovery boiler shall be controlled to 141 ppmv (dry basis) @ 8% O₂ on a 24-hour block average basis when firing only black liquor or when firing a combination of black liquor and oil. The recovery boiler fires #6 fuel oil. Oil fired in the recovery boiler alone shall not exceed 0.7% sulfur by weight or 2.0% sulfur by weight when firing a combination of black liquor and oil. The recovery boiler is fired with fuel oil for startup purposes (in order to initiate Black Liquor Solids (BLS) firing) in addition to shutdowns and other events which require the addition of oil firing.
3. NO_x
Recovery Boiler #2 shall not exceed a NO_x limit of 233 ppmv corrected to 8% O₂ on a dry basis. Compliance with the NO_x ppmv emission limit shall be on a 24-hr block average basis excluding periods of start-up, shutdown and malfunction, demonstrated by means of a CEMS on the stack.

B. Implementation Dates

The BART determinations for the #2 Recovery Boiler is currently required in existing Air Emission Licenses.

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ORDER

The Department hereby issues LPT's Best Available Retrofit Technology Determination Air Emission License A-177-77-3-A.

DONE AND DATED IN AUGUSTA, MAINE THIS *9th* DAY OF *January* 2008.
DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: *James P. Brooks*

DAVID P. LITTELL, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: July 20, 2007

Date of application acceptance: July 20, 2007

Date filed with Board of Environmental Protection: _____

This Order prepared by Edwin Cousins, Bureau of Air Quality

