



PAUL R. LEPAGE  
GOVERNOR

AVERY T. DAY  
ACTING COMMISSIONER

**Bucksport Mill LLC  
Hancock County  
Bucksport, Maine  
A-22-77-19-M**

**Departmental  
Findings of Fact and Order  
New Source Review  
NSR #16**

**FINDINGS OF FACT**

After review of the minor revision 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 Maine Department of Environmental Protection (Department) finds the following facts:

**I. REGISTRATION**

A. Introduction

Facility	Bucksport Mill LLC (Bucksport Mill)
License Amendment Type	06-096 CMR 115 Minor Revision
NAICS Code	221112, Fossil Fuel Electric Power Generation
Nature of Business	Electric Services
Facility Location	2 River Road, Bucksport, Maine

Bucksport Mill LLC (Bucksport Mill) operates electric power generation equipment and is licensed as a major source through its Part 70 License (A-22-70-A-I, December 30, 2004) with various Part 70 amendments and New Source Review amendments.

The Bucksport Mill submitted a New Source Review minor revision application to establish federally enforceable limits of Hazardous Air Pollutants (HAPs) in order to classify the facility as a HAP area source. The pulp and paper making processes are no longer in operation and the power plant operations are the only sources HAP emissions from the facility. Previously, the facility was considered a HAP major source.

The Bucksport Mill has also requested a 10% annual capacity operating restriction on Boiler 6 to classify the boiler as a 'limited use boiler' for the purposes of 40 CFR Part 63, Subpart JJJJJ, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*.

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 04769  
(207) 764-0477 FAX: (207) 760-3143

B. Application Classification

The submitted application request to restrict the licensed allowed emissions from the facility to below 25 tons/year of total HAPs and 10 tons/year of any single HAP and restrict operations of Boiler 6 will not result in increased emissions or added equipment. Therefore, the Department has classified the application as a minor revision. The application has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (as amended).

**II. MINOR REVISION DESCRIPTION**

A. Background

In the past, the Bucksport Mill was comprised of two primary operating areas: papermaking and power generation. The papermaking portion of the facility, including pulping, is now shut down and is currently undergoing demolition to allow for other potential uses of the site. The power generation portion of the facility continues to remain operational to provide power to the electric market. This includes the boilers, the gas turbine, the electrical connections to the grid, the fuel handling systems, and associated equipment.

B. Minor Revision Request

1. Facility-Wide HAP Limitation

The Bucksport Mill is proposing federally enforceable limits of HAPs to become classified as a HAP area source. With the shutdown of the pulp and papermaking processes, the only sources of HAP emissions are from the power plant operations. Results of calculations derived from the remaining equipment's maximum capacities and emission factors obtained from EPA's AP-42 factors, National Council on Air and Stream Improvement (NCASI), EPA's webfire database, and Department factors, show that the Bucksport Mill would still be a major HAP source based on maximum potential. However, the Bucksport Mill cannot operate all sources at the same time at maximum loads for 365 days.

Therefore, the Bucksport Mill has proposed federally enforceable emission limits of 24.9 tons/year total HAPs and 9.9 tons/year for any single HAP. In order to document compliance, the Bucksport Mill shall keep records of fuel usage and calculate the associated HAP emissions from Boiler #5, Boiler #6, Boiler #8, the Gas Turbine, and emissions sources such as the emergency engines. Records shall be maintained on a monthly and 12 month rolling

total. A similar spreadsheet to the one the Bucksport Mill submitted with the minor revision application shall be utilized, including fuel usage for each combustion source and the associated HAP emission factors.

As a result of the federally enforceable HAP emission limits, the boilers at the facility will not be subject to 40 CFR Part 63, Subpart DDDDD, *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters* for HAP major sources, but will be subject to 40 CFR Part 63, Subpart JJJJJ. In addition to the HAP limitation, Bucksport Mill has requested an operating limitation on Boiler 6, as described in the following section.

## 2. Boiler 6 Restriction

The Bucksport Mill has requested a 10% annual capacity factor limit on Boiler 6 to be classified as a 'limited use boiler', as defined in 40 CFR Part 63, Subpart JJJJJ. §63.11237 defines limited-use boiler as 'any boiler that burns any amount of solid or liquid fuels and has a federally enforceable average annual capacity factor of no more than 10 percent'. The requirements in 40 CFR Part 63, Subpart JJJJJ are different for limited-use units than units that operate without restrictions.

Records of boiler operation shall be maintained to document compliance with the average annual capacity factor. If Boiler 6 is operated for greater than 10% of its average annual capacity, then the additional applicable requirements of 40 CFR Part 63, Subpart JJJJJ shall apply, as appropriate.

## ORDER

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

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

The Department hereby grants Air Emission License A-22-77-19-M, 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.

### SPECIFIC CONDITIONS

#### (1) Pulp and Papermaking Equipment

The pulp and papermaking equipment at Bucksport Mill shall no longer be operated, including but not limited to, the groundwood pulping processes, the Thermomechanical Pulping (TMP) process, the Paper Machines, the clay and starch processing equipment, and the Off Machine Coater Dryer. [06-096 CMR 115]

#### (2) Facility-Wide HAP Emission Limitations

- A. The Bucksport Mill shall be limited to 24.9 ton/year of total HAPs and 9.9 tons/year of any single HAP, based on a 12-month rolling total.
- B. Compliance with the facility-wide HAP emission limits shall be demonstrated by fuel use records and emission calculations on a monthly and 12-month rolling total basis.

[06-096 CMR 115, BACT]

#### (3) Boiler 6 Annual Capacity Limitation

- A. Boiler 6 shall be limited to no more than 10% of its annual capacity on an annual average basis when firing liquid fuel.

B. Compliance with the Boiler 6 capacity factor limitation shall be demonstrated by records of boiler use on an annual basis.

[06-096 CMR 115, BACT]

DONE AND DATED IN AUGUSTA, MAINE THIS 31 DAY OF December, 2015.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Maura Allen Robert Corne for  
AVERY T. DAY, ACTING COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: November 2, 2015

Date of application acceptance: November 5, 2015

Date filed with the Board of Environmental Protection:

This Order prepared by Kathleen E. Tarbuck, Bureau of Air Quality.

