



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE  
GOVERNOR

PATRICIA W. AHO  
COMMISSIONER

**L.L. Bean, Inc.  
Casco Street Campus  
Cumberland County  
Freeport, Maine  
A-59-71-L-A (SM)**

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

**FINDINGS OF FACT**

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 Maine Department of Environmental Protection (Department) finds the following facts:

**I. REGISTRATION**

**A. Introduction**

L.L. Bean, Inc. (L.L. Bean) was issued Air Emission License A-59-71-K-R on September 22, 2010 permitting the operation of emission sources associated with their Casco Street Campus facility.

L.L. Bean has requested an amendment to their license in order to replace a boiler that failed. The old unit with a maximum heat input capacity of 1.49 MMBtu/hr was licensed to combust natural gas and #2 fuel oil. The new unit will have a maximum heat input capacity of 2.0 MMBtu/hr and will fire only natural gas.

**B. Emission Equipment**

The following equipment is addressed in this air emission license:

**Boilers**

<b>Equipment</b>	<b>Maximum Capacity (MMBtu/hr)</b>	<b>Maximum Firing Rate</b>	<b>Fuel Type</b>	<b>Stack #</b>
Bld D BLR #2	2.0	1960 scf/hr	Natural Gas	Bld D BLR #2

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

C. Application Classification

This amendment will not increase any licensed allowed emissions or change the annual licensed allowed fuel limits. Therefore, this modification is determined to be a minor amendment 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 *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 new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in *Definitions Regulation*, 06-096 CMR 100 (as amended). BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. Building D Boiler #2

L.L. Bean operated Bld D BLR #2 rated at 1.49 MMBtu/hr which was installed and manufactured in 2001. This boiler has recently failed and L.L. Bean is proposing to install a replacement boiler at a maximum heat input capacity of 2.0 MMBtu/hr. This boiler, manufactured in 2013, will only burn natural gas and will exhaust through the existing stack.

Due to the boiler's size, the new unit is 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.

1. BACT Findings

Natural Gas

PM/PM <sub>10</sub>	–	0.05 lb/MMBtu based on 06-096 CMR 115, BPT
SO <sub>2</sub>	–	0.6 lb/MMscf based on AP-42, Table 1.4-2, dated 7/98
NO <sub>x</sub>	–	100 lb/MMscf based on AP-42, Table 1.4-1, dated 7/98
CO	–	84 lb/MMscf based on AP-42, Table 1.4-1, dated 7/98
VOC	–	5.5 lb/MMscf based on AP-42, Table 1.4-2, dated 7/98

The BACT emission limits for the boiler are the following:

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)
Bld D BLR #2 (2.0 MMBtu/hr) natural gas	0.10	0.10	0.01	0.20	0.17	0.02

Visible emissions from the stack serving Bld D BLR #2 shall not exceed 10% opacity on a six (6) minute block average basis, except for no more than one (1), six (6) minute block average in a three hour period.

L.L. Bean is currently licensed to 35,000 MMBtu per year of natural gas on a 12-month rolling total basis. This limit will not change as a result of this amendment.

2. Periodic Monitoring  
Periodic monitoring for the boiler shall include recordkeeping to document total facility fuel use both on a monthly and 12 month rolling total basis. Documentation shall include the type of fuel used.
3. 40 CFR Part 63 Subpart JJJJJ  
Bld D BLR #2 will be licensed to only fire natural gas. Subpart JJJJJ is not applicable to units firing natural gas.

### III. AMBIENT AIR QUALITY ANALYSIS

The level of ambient air quality impact modeling required for a minor source shall be determined by the Department on a case-by case basis. In accordance with 06-096 CMR 115, an ambient air quality impact analysis is not required for a minor source if the total emissions of any pollutant released do not exceed the following levels and there are no extenuating circumstances:

Pollutant	Tons/Year
PM <sub>10</sub>	25
SO <sub>2</sub>	50
NO <sub>x</sub>	50
CO	250

The total facility licensed emissions are below the emission levels contained in the table above and there are no extenuating circumstances; therefore, an ambient air quality impact analysis is not required as part of this license.

## 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, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License Amendment A-59-71-L-A subject to the conditions found in Air Emission License A-59-71-K-R and in 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) **The following condition shall replace Condition (16) of Air Emission License, A 59-71-K-R:**

**(16) Boilers**

A. The boilers shall be limited to firing 35,000 MMBtu combined of natural gas or #2 fuel oil which meets the criteria in ASTM D396. Records from the supplier documenting the quantity and type of each fuel delivered shall be kept for compliance purposes. [06-096 CMR 115, BPT]

B. Emissions shall not exceed the following:

Emission Unit	Fuel	Pollutant	lb/MMBtu	Origin and Authority
TYBLR #1	#2 fuel oil	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
	Nat gas	PM	0.05	06-096 CMR 115, BPT
TYBLR #2	#2 fuel oil	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
	Nat gas	PM	0.05	06-096 CMR 115, BPT
TYBLR #3	#2 fuel oil	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
	Nat gas	PM	0.05	06-096 CMR 115, BPT
CSOC BLR	#2 fuel oil	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
	Nat gas	PM	0.05	06-096 CMR 115, BPT

C. 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)
TYBLR #1	#2 fuel oil	0.74	0.74	3.12	0.89	0.22	0.02
	Nat gas	0.31	0.31	0.01	0.62	0.52	0.03
TYBLR #2	#2 fuel oil	0.74	0.74	3.12	0.89	0.22	0.02
	Nat gas	0.31	0.31	0.01	0.62	0.52	0.03
TYBLR #3	#2 fuel oil	0.74	0.74	3.12	0.89	0.22	0.02
	Nat gas	0.31	0.31	0.01	0.62	0.52	0.03
CSOC BLR	#2 fuel oil	0.50	0.50	2.12	0.60	0.15	0.02
	Nat gas	0.21	0.21	0.01	0.42	0.35	0.02
Bld D BLR #2	Nat gas	0.10	0.10	0.01	0.20	0.17	0.02
Bld D BLR #3	#2 fuel oil	0.18	0.18	0.75	0.21	0.05	0.01
	Nat gas	0.21	0.21	0.01	0.42	0.35	0.02

D. Visible emissions from each boiler, when firing natural gas, shall not exceed 10% 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]

E. Visible emissions from each boiler, when firing #2 fuel oil, shall not exceed 20% 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]

DONE AND DATED IN AUGUSTA, MAINE THIS 26 DAY OF September, 2013.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Marc Allen Robert Case  
PATRICIA W. AHO, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-59-71-K-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: September 3, 2013  
Date of application acceptance: September 5, 2013

Date filed with the Board of Environmental Protection:

This Order prepared by Edwin Cousins, Bureau of Air Quality

