



Form No.	A-L-0006
Effective Date	12/2005
Revision No.	07
Last Revision Date	1/2013
Page 1 of 10	

## CHAPTER 115 AIR EMISSION LICENSE APPLICATION FORM

State of Maine  
Department of Environmental Protection  
Bureau of Air Quality  
17 State House Station  
Augusta, Maine 04333-0017  
Phone: (207) 287-2437 Fax: (207) 287-7641

### Section A: FACILITY INFORMATION

Owner or Operator (*Legal name as registered with the Secretary of State*):

University of Maine System

Facility Site Name: University of Southern Maine

Facility Site Address (*Physical, no post office boxes*): 25 Bedford Street

City/Town: Portland Zip Code: 04104 County: Cumberland

Facility Description: University of Southern Maine

Application Description: Amendment to existing license.

Current License #: A- 464 - 71 - N - M

#### Check When Done:

- Application Completed
- Copy Sent to Town (date sent 7-23-13)
- Public Notices Published  
(paper name: \_\_\_\_\_ date: \_\_\_\_\_)
- Enclosed Public Notice Tear Sheet
- Signed Signatory Form (section J)
- If applicable, notified abutting landowners (major modification)
- If applicable, enclosed check for fee (new sources)

#### Processing Category

- No changes to existing license
- Changes proposed to existing license with an expected implementation date of: 7-23-13

For Department Use

Application #: A- \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

App Track #:

Chapter 115 Air Emission License Application  
State of Maine DEP - Bureau of Air Quality

Facility Contact:

Name: Robert Bertram Title: Executive Director of Facilities Management  
Company: University of Southern Maine  
Mailing Address: 25 Bedford St.  
City/Town: Portland Zip Code: 04104  
Phone: (207) 780-4546 Fax: (207) 780-4538  
e-mail: rbertram@usm.maine.edu

Application Contact:

Name: Timothy Braun Title: Building Construction Engineer  
Company: University of Southern Maine  
Mailing Address: 25 Bedford St.  
City/Town: Portland Zip Code: 04104  
Phone: (207) 780-4742 Fax: (207) 780-4538  
e-mail: tbraun@usm.maine.edu

Billing Contact:

Name: Paul Kuplinski Title: Director of Finance and Administration  
Company: University of Southern Maine  
Mailing Address: 25 Bedford St.  
City/Town: Portland Zip Code: 04104  
Phone: (207) 780-4162 Fax: (207) 780-4538  
e-mail: pkuplinski@usm.maine.edu

Chapter 115 Air Emission License Application  
State of Maine DEP - Bureau of Air Quality

**Section B: FUEL BURNING EQUIPMENT**

Emission Unit ID	Type of Equipment (boiler, furnace, engine, etc.)	Maximum Design Capacity	Maximum Firing Rate	Fuel Type (and % sulfur)	Date of Manufacture	Date of Installation	Stack #	Control Device
<i>Boiler #1 (Example)</i>	<i>package boiler</i>	<i>50 MMBtu/hr (Example)</i>	<i>333.3 gal/hr (Example)</i>	<i>#6 oil, 2% (Example)</i>	<i>1984 (Example)</i>	<i>1990 (Example)</i>	<i>1 (Ex.)</i>	<i>ESP (Ex.)</i>
<i>Gen. #1 (Example)</i>	<i>Emergency Generator</i>	<i>125 kW (Example)</i>	<i>8.9 gal/hr (Example)</i>	<i>diesel, 0.05% (Example)</i>	<i>1995 (Example)</i>	<i>1995 (Example)</i>	<i>2 (Ex.)</i>	<i>None (Ex.)</i>
see	attached	sheet						

Monitors for Fuel Burning Equipment:

If applicable, indicate types of required/operated monitors, including Continuous Emission Monitors (CEM), Continuous Opacity Monitors (COM), parameter monitors for operational purposes, etc.

Emission Unit	Type of Monitor	Data Measured
<i>Boiler #1 (Example)</i>	<i>CEM (Example)</i>	<i>NO<sub>x</sub> (Example)</i>
<i>Boiler #1 (Example)</i>	<i>param. – operational (Example)</i>	<i>temperature (Example)</i>
All Generators	Generator Log	Run Times

**Section C: INCINERATORS**

	Incinerator Unit 1	Incinerator Unit 2
Incinerator Type (medical waste, municipal, etc.)		
Waste Type		
Make (Shenandoah, Crawford, etc.)		
Model Number		
Date of Manufacture		
Date of Installation		
Number of Chambers		
Max. Design Feed Rate (per load)	lb	lb
Max. Design Combustion Rate	lb/hr	lb/hr
Heat Recovery? (Yes or No)		
Retention Time	seconds	seconds
Automatic Feeder? (Yes or No)		
Temperature Range		
Primary	to °F	to °F
Secondary	to °F	to °F
Auxiliary Burner - Primary Chamber max. rating (MMBtu/hr)		
type of fuel used		
Auxiliary Burner - Secondary Chamber max. rating (MMBtu/hr)		
type of fuel used		
Annual Waste Combusted for ____ (yr)		
Pollution Control Equipment (if any)		
Stack Number		
Monitors (ie - temperature recorder)		

Chapter 115 Air Emission License Application  
 State of Maine DEP - Bureau of Air Quality

**Section D: PROCESS EQUIPMENT**

Emission Unit ID	Type of Equipment	Maximum Raw Material Process Rate (name and rate)	Maximum Finished Material Process Rate (name and rate)	Date of Manufacture	Date of Installation	Stack #	Control Device
<i>Kilns (Example)</i>	<i>Drying Kilns (Example)</i>	<i>N/A (Example)</i>	<i>25 MMBF/year (Example)</i>	<i>1990 (Example)</i>	<i>1990 (Example)</i>	<i>N/A (Ex.)</i>	<i>none (Example)</i>
<i>PB#1 (Example)</i>	<i>Paint Booth (Example)</i>	<i>10 gal/hr (Example)</i>	<i>N/A (Example)</i>	<i>2001 (Example)</i>	<i>2001 (Example)</i>	<i>#4 (Ex.)</i>	<i>Paper Filters (Example)</i>

Parts Washers/Solvent Degreasers

Emission Unit ID	Capacity (gallons)	Solvent Used
<i>Degreaser #1 (Example)</i>	<i>15 (Example)</i>	<i>Kerosene (Example)</i>

**PROCESS EQUIPMENT (section D cont'd)**

Chemical Usage

Note: Complete this section for any chemicals integral to your process, for example, a cementing process for outsoles, dyes, surface coating, printing, cleaning, etc. Attach additional pages or MSDS sheets as needed.

Process	Chemical compound used in process	Actual Compound Usage (gal or lb for yr )	Hazardous chemical(s) in compound	Percent VOC <sup>1</sup> (%)	Percent HAP <sup>2</sup> (%)	Total VOC emitted (lb/year)	Total HAP emitted (lb/year)

<sup>1</sup> Volatile Organic Compounds

<sup>2</sup> Hazardous Air Pollutants

Describe method of record keeping (ie. monthly calculations from purchase records, flow monitors on solvent tanks, etc.)

---

---

---

---

---

Describe methods used to calculate VOC/HAP emitted (ie – test results, if control equipment was taken into account; if conditions exist where solvents remain in the substrate rather than complete volatilization, etc.)

---

---

---

---

---

**Chapter 115 Air Emission License Application**  
 State of Maine DEP - Bureau of Air Quality

**Section E: STACK DATA**

Stack #	Height Above Ground (m or ft)	Inside Diameter (m or ft)	Exit Temperature °F	Exhaust Flow Rate (m <sup>3</sup> /s or ft <sup>3</sup> /s) [indicate actual or standard]
same	as	2009	application	

**Section F: ANNUAL FACILITY FUEL USE**

Total Fuel Consumption by Month for: 2012 (year)

Fuel type: #6 Fuel Oil

Fuel type: Diesel Fuel Oil

Fuel type: Natural Gas

Avg % sulfur (oil) 1%

Avg % sulfur (oil) .05

Avg % sulfur (oil) \_\_\_\_\_

Avg % moisture (wood) \_\_\_\_\_  
 (circle one: gal, tons, scf)

Avg % moisture (wood) \_\_\_\_\_  
 (circle one: gal, tons, scf)

Avg % moisture (wood) \_\_\_\_\_  
 (circle one: gal, tons, scf)

January \_\_\_\_\_  
 February \_\_\_\_\_  
 March \_\_\_\_\_  
 April \_\_\_\_\_  
 May \_\_\_\_\_  
 June \_\_\_\_\_  
 July \_\_\_\_\_  
 August \_\_\_\_\_  
 September \_\_\_\_\_  
 October \_\_\_\_\_  
 November \_\_\_\_\_  
 December \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Total \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Proposed Annual Limit 350,000 gal

70,000 gal

15,000,000 scf

**Chapter 115 Air Emission License Application**  
 State of Maine DEP - Bureau of Air Quality

**Section G: LIQUID ORGANIC MATERIAL STORAGE**

Tank #							
Capacity (gallons)							
Materials Stored							
Reid Vapor Pressure							
Annual Throughput							
Above or Below Ground?							
Tank Type (floating or fixed, riveted or bolted, etc.)							
Physical Description - year installed							
Physical Description - color							
Dimensions - height (ft)							
Dimensions - Diameter (ft)							
Control Device							

**Section H: MISCELLANEOUS**

Note: Use this section to describe any equipment, activities, or other air emission sources that did not fit in any of the above categories. Include descriptions of the associated emissions. Attach additional pages if necessary.

---



---



---



---



---



---



**Section I: BPT/BACT AND OTHER ATTACHEMENTS**

BPT/BACT Analysis:

For license renewals for existing equipment, applicants are required to submit a Best Practical Treatment (BPT) analysis to the Department. A BPT analysis establishes what equipment or requirements are appropriate for control or reduction of emissions of regulated pollutants to the lowest possible level considering the existing state of technology, the effectiveness of available alternatives, and the economic feasibility.

For new licenses or the addition of new equipment to existing licenses, applicants are required to submit a Best Available Control Technology (BACT) analysis. A BACT analysis is a top-down approach to selecting air emission controls. It is done on a case-by-case basis and develops emission limits based on the maximum degree of reduction for each pollutant emitted taking into account economic, environmental and energy impacts.

- I certify that, to the best of my knowledge, the control equipment, fuel limitations, and process constraints outlined in this application represent BPT / BACT for the equipment and processes listed.

OR

- I have attached a separate BPT / BACT analysis to this application.

Other Attachments:

Please list any attachments included with this application.

---

---

---

---

---

---

---

---

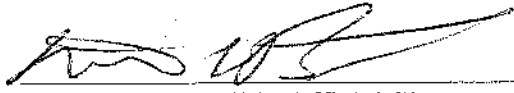
---

---

**Section J: SIGNATORY REQUIREMENT**

Each application submitted to the Department must include the following certification signed by a Responsible Official\*:

"I certify under penalty of law that, based on information and belief formed after reasonable inquiry, I believe the information included in the attached document is true, complete, and accurate."



Responsible Official Signature

(123)

**Robert W. Bertram**

Responsible Official (Printed or Typed)

7-23-13

Date

Executive Director of Facilities Management

Title

\* A Responsible Official is defined by MEDEP Rule, Chapter 100 as:

- A. For a corporation: a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit and either:
  - (1) The facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million (in second quarter 1980 dollars); or
  - (2) The delegation of authority to such representatives is approved in advance by the permitting authority;
- B. For a partnership or sole proprietorship: a general partner or the proprietor, respectively;
- C. For a municipality, State, Federal, or other public agency: Either a principal executive officer or ranking elected official. For the purposes of this part, a principal executive officer of a Federal agency includes the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., a Regional Administrator of EPA).

Portland Fuel Burning Equipment (Section B)

Equipment	Building	Location	Max Capacity (MMBtu/HR)	Maximum Firing Rate	Fuel Type	Sulfur %	Date of Manufacture	Date of Installation	Stack #	Control Device	Notes
Boiler 1	CHP	30 Durham St	11.2	75 gal/hr	#4, #6 Fuel Oil	2%		1964	1		
	Portland			not used	# 2 Fuel Oil						
Boiler 2	CHP	30 Durham St	11.2	75 gal/hr	#4, #6 Fuel Oil	2%		1964	1		
	Portland			not used	# 2 Fuel Oil						
				not used	Natural Gas						
Boiler 3	CHP	30 Durham St	18.3	not used	#4, #6 Fuel Oil			1971	1		
	Portland			not used	# 2 Fuel Oil						
				not used	Natural Gas						
Boiler 5,6,7	Glickman	310 Forest Ave	3.0 (total)	2942 scf/hr	Natural Gas			1992	3,4,5		
				17,942scf/hr	Natural Gas						
Boiler 8	Facilities	25 Bedford St	3.5		Natural gas		2012	2012	6		New Boiler -Sept 2012
Boiler 10	Sold										
Boiler 11	Science	66 Falmouth St	1.5	1471 scf/hr	Natural Gas				12		
Boiler 12+13	Science	66 Falmouth St	2.0 (total)	1961 scf/hr	Natural Gas				13,14		
Boiler 14	Glickman	310 Forest Ave	1.00	980 scf/hr	Natural Gas			2008	16		
Boiler 15	Science	Bedford St	1.00	971 scf/hr	Natural Gas				19		
Generator 1	Payson		0.66	4.7 gal/hr	Diesel	0.05%			9		
Generator 2	Science		2.02	14.9 gal/hr	Diesel	0.05	2011	2011	10		
Generator 3	Glickman		2.88	20.8 gal/hr	Diesel	0.05%			11		
Generator 4	Science C (new)		5.67	5569 scf/hr	Natural Gas				15		
Generator 5	Parking Garage		0.86	9.15 gal/hr	Propane				17		
Generator 6	Wishcamper		0.81	790 scf/hr	Natural Gas				20		