



# UNIVERSITY OF NEW ENGLAND

## Campus Services

**Biddeford Campus**  
11 Hills Beach Road  
Biddeford, ME 04005  
(207) 283-0171 T  
(207) 602-5911 F

**Portland Campus**  
716 Stevens Avenue  
Portland, ME 04103  
(207) 797-7261 T  
(207) 221-4892 F

March 15, 2013  
Portland City Hall  
389 Congress St  
Portland, ME 04101  
Attn: Office of Cooperation Council

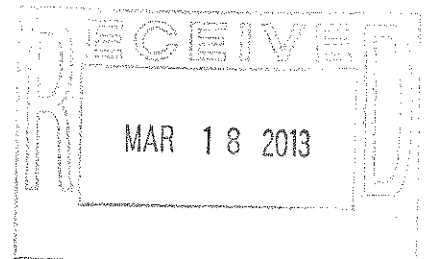
To Whom it May Concern,

Enclosed is a copy of the University of New England's Chapter 115 Air Emissions License Renewal Application. Pursuant to requirements set forth in Maine's Air Emissions Regulations, a Public Notice of Intent to file was published in the Portland Press Herald on March 13, 2013. State law requires that a copy of the application be mailed to the local municipal office for public view. If you have any questions, please call me at (207) 602-2791 or email at [pnagle@une.edu](mailto:pnagle@une.edu).

Sincerely,

A handwritten signature in cursive script, appearing to read 'Peter J. Nagle', written in black ink.

Peter J. Nagle  
Environmental Health & Safety Specialist





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*):

Facility Site Name: University of New England

Facility Site Address (*Physical, no post office boxes*): 716 Stevens Ave

City/Town: Portland Zip Code: 04103 County: Cumberland

Facility Description: University campus

Application Description: Amendment of our current license to include three new emergency generators, two to be powered by diesel fuel, the third by natural gas.

Current License #: A- 111-71-J-R/A - 111-71-J-R/A - 111-71-J-R/A - 111-71-J-R/A

#### Check When Done:

- Application Completed
- Copy Sent to Town (date sent 3/15/2013)
- Public Notices Published  
(paper name: Portland Press Herald date: 3/13/2013)
- 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: 3/15/2013

For Department Use

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

App Track #:

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Facility Contact:

Name: Ron Souza Title: Environmental Health & Safety Director  
Company: University of New England  
Mailing Address: 11 Hills Beach Rd.  
  
City/Town: Biddeford Zip Code: 04005  
Phone: 207-602-2488 Fax: 207-602-5911  
e-mail: rsouza@une.edu

Application Contact:

Name: Peter Nagle Title: Environmental Health & Safety Specialist  
Company: University of New England  
Mailing Address: 11 Hills Beach Rd  
  
City/Town: Biddeford Zip Code: 04005  
Phone: 207-602-2791 Fax: 207-602-5911  
e-mail: pnagle@une.edu

Billing Contact:

Name: Accounts Payable Title: N/A  
Company: University of New England  
Mailing Address: 11 Hills Beach Rd  
  
City/Town: Biddeford Zip Code: 04005  
Phone: 207-602-2345 Fax: \_\_\_\_\_  
e-mail: apdet@une.edu

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**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>
Generator #2	Emergency Generator	<b>144kW</b>	9.89 gal/hr	Diesel, 0.05%	<b>2006</b>	<b>2013</b>		
Generator #3	Emergency Generator	<b>250kW</b>	19.6 gal/hr	Diesel, 0.05%	<b>2013</b>	<b>2013</b>		
Generator #4	Emergency Generator	<b>150kW</b>	2061cu.ft/hr	Natural Gas, N/A	<b>2013</b>	<b>2013</b>		

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>

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**Section C: INCINERATORS**

	<b>Incinerator Unit 1</b>	<b>Incinerator Unit 2</b>
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)		

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**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>

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**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.)

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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.)

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**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]

**Section F: ANNUAL FACILITY FUEL USE**

Total Fuel Consumption by Month for: \_\_\_\_\_ (year)

Fuel type: \_\_\_\_\_

Fuel type: \_\_\_\_\_

Fuel type: \_\_\_\_\_

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

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

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 \_\_\_\_\_  
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Total \_\_\_\_\_

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\_\_\_\_\_

Proposed Annual Limit \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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**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.

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**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.

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**Air emissions License # A-111-71-J-R/A  
Renewal/Amendment Application  
Attachment A**

**Best Practical Treatment Analysis**

With each renewal application, the Maine Department of Environmental Protection (MEDEP) regulations require that all applications include a Best Practical Treatment (BPT) analysis for any existing equipment reported as required by law.

The University of New England, Portland Campus, currently operates six boilers that have a maximum heat input of greater than 1 MMBTU/hr. Two of the existing boilers are capable of burning both #2 fuel oil with a sulfur content of 0.5% and natural gas. These are located in Ginn/McDougal Hall. The remaining four boilers burn natural gas and are located in Proctor Hall, Finley Recreation Center and two in the College of Pharmacy. We also have an emergency generator that burns diesel fuel with a sulfur content of 0.05% located in-between the College of Pharmacy and Finley Hall.

The university is currently installing three new emergency generators, one at the Dental School, one at Goddard Hall and the third will be a portable generator.. Two will burn Diesel fuel with a sulfur content of 0.05% and the third, Goddard Hall, will run on natural gas.


The university proposes to continue good combustion and maintenance practices for these relatively small boilers and apply the same practices to the two new boilers and new generator. By meeting the requirements of the Air Emissions License, the universities existing fuel burning process is controlling emissions in a manner that is appropriate to comparable facilities and such represents Best Practical Treatment (BPT).

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**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  
  
Ronnie P. Souza  
\_\_\_\_\_  
Responsible Official (Printed or Typed)

3/15/2013  
\_\_\_\_\_  
Date  
  
Director EHS  
\_\_\_\_\_  
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).