



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI  
GOVERNOR

BETH NAGUSKY  
ACTING COMMISSIONER

L.L. Bean, Inc. )  
Desert Road Campus ) Departmental  
Cumberland County ) Findings of Fact and Order  
Freeport, Maine ) Air Emission License  
A-764-71-E-R/A )

After review of the air emissions license 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., Section 344 and Section 590, the Department finds the following facts:

**I. REGISTRATION**

**A. Introduction**

L.L. Bean, Inc. (L.L. Bean) of Freeport, Maine has applied to renew their Air Emission License, permitting the operation of emission sources associated with their Desert Road Campus facility.

L.L. Bean has requested to make the following modifications to their License:

1. A Standby Generator (OFC-ONAN @ 0.5 MMBtu/hr) and a Fire Pump (DRR-CUM FP @ 0.84 MMBtu/hr) were incorrectly identified as insignificant activities in the previous renewal and will be incorporated into this License.
2. Several new units have been installed (outlined below).
3. Increase the annual propane limit to 175,000 gallons.
4. Add the ability to fire natural gas to each non-emergency fuel burning unit.
5. Add three seasonal emergency generators.

**B. Emission Equipment**

L.L. Bean is authorized to operate the following equipment:

Equipment	Maximum Capacity (MMBtu/hr)	Maximum Firing Rate	Fuel Type	Stack #
OFC ARU #1	2.4	25.5 gal/hr 2400 scf/hr	Propane, Natural Gas	OFC ARU #1
OFC ARU #2	1.2	12.8 gal/hr 1200 scf/hr	Propane, Natural Gas	OFC ARU #2
OFC ARU #5	1.8	19.5 gal/hr 1800 scf/hr	Propane, Natural Gas	OFC ARU #5

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*OFC ARU #9	1.8	19.5 gal/hr 1800 scf/hr	Propane, Natural Gas	OFC ARU #9
*OFC ARU #10	1.8	19.5 gal/hr 1800 scf/hr	Propane, Natural Gas	OFC ARU #10
*OFC ARU #11	1.8	19.5 gal/hr 1800 scf/hr	Propane, Natural Gas	OFC ARU #11
*OFC ARU #12	1.8	19.5 gal/hr 1800 scf/hr	Propane, Natural Gas	OFC ARU #12
OFC/S ARU #1	3.75	26.8 gal/hr 3750 scf/hr	#2 Fuel Oil, Natural Gas	OFC/S ARU #1
OFC/S ARU #2	3.75	26.8 gal/hr 3750 scf/hr	#2 Fuel Oil, Natural Gas	OFC/S ARU #2
DRS BLR #1	2.5	17.5 gal/hr 2500 scf/hr	#2 Fuel Oil, Natural Gas	DRS BLR #1
DRS BLR #2	2.5	17.5 gal/hr 2500 scf/hr	#2 Fuel Oil, Natural Gas	DRS BLR #2
OFC/WH	1.0	11.0 gal/hr 1000 scf/hr	Propane, Natural Gas	OFC/WH
*OFC/s UH1	1.4	15.0 gal/hr 1400 scf/hr	Propane, Natural Gas	OFC/s UH1
*OFC/s UH2	1.4	15.0 gal/hr 1400 scf/hr	Propane, Natural Gas	OFC/s UH2
OFC-CAT	4.20	30.00 gal/hr	Diesel, 0.05% S	OFC-CAT
**OFC-ONAN	0.5	5.4 gal/hr	Propane	OFC-ONAN
**DRR-CAT FP	0.84	6.0 gal/hr	Diesel, 0.05% S	DRR-CAT FP
*Seasonal Unit 1	16.9	123.1 gal/hr	Diesel, 0.05% S	Seasonal 1
*Seasonal Unit 2	16.9	123.1 gal/hr	Diesel, 0.05% S	Seasonal 2
*Seasonal Unit 3	7.2	52.7 gal/hr	Diesel, 0.05% S	Seasonal 3

\* Denotes new equipment

\*\* Previously classified as insignificant.

L.L. Bean has additional insignificant activities that do not need to be listed in the emission equipment table above. The equipment currently identified as insignificant has been included in L.L. Bean's license application.

C. Application Classification

The modification of a minor source is considered a major modification based on whether or not expected emission increases exceed the "Significant Emission Levels" as defined in the Department's regulations. This application is determined to be a renewal of a minor source with a minor modification and has been processed as such.

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## 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 (last amended December 24, 2005). 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 (last amended December 24, 2005). BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emissions from the source being considered; and
- the economic feasibility for the type of establishment involved.

### B. OFC/S ARU #1, OFC/S ARU #2, DRS BLR #1 and DRS BLR #2

Units OFC/S ARU #1, OFC/S ARU #2, DRS BLR #1 and DRS BLR #2 each have a maximum Heat Input Capacity less than 10 MMBtu/hr. They are therefore 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.

BACT for OFC/S ARU #1, OFC/S ARU #2, DRS BLR #1 and DRS BLR #2 is the following:

1. *Low Sulfur Fuel*, 06-096 CMR 106 (last amended June 9, 1999) regulates fuel sulfur content. However, the use of Natural Gas or #2 fuel oil which meets the criteria in ASTM D396 is more stringent and shall be considered BACT.

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2. *Fuel Burning Equipment Particulate Emission Standard*, 06-096 CMR 103 (last amended November 3, 1990) regulates PM emission limits for Units OFC/S ARU #1 and OFC/S ARU #2. However, PM emission limits of 0.08 lb/MMBtu when firing #2 fuel oil, and 0.05 lb/MMBtu when firing Natural Gas are more stringent and shall be considered BACT. A PM emission limits 0.08 lb/MMBtu when firing #2 fuel oil, and 0.05 lb/MMBtu when firing Natural Gas shall be considered BACT for Units DRS BLR #1 and DRS BLR #2. The PM<sub>10</sub> limits are derived from the PM limits.
3. NO<sub>x</sub>, CO and VOC emission rates are based on AP-42 data dated 9/98 for #2 fuel oil and AP-42 data dated 2/98 for Natural Gas.
4. Visible emissions from each unit shall not exceed 20% opacity on a six (6) minute block average basis, except for no more than one (1), six (6) minute block average in a 3-hour period when firing #2 fuel oil.
5. Visible emissions from each unit 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 3-hour period when firing Natural Gas.

C. OFC ARU #1, OFC ARU #2, OFC ARU #5, OFC ARU #9-#12, OFC/WH, OFC/s UH1 and OFC/s UH2

Units OFC ARU #1, OFC ARU #2, OFC ARU #5, OFC ARU #9-#12, OFC/WH, OFC/s UH1 and OFC/s UH2 each have a maximum Heat Input Capacity less than 10 MMBtu/hr. They are therefore not subject to the 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.

BACT for OFC ARU #1, OFC ARU #2, OFC ARU #5, OFC/WH, OFC ARU #9-#12, OFC/s UH1 and OFC/s UH2 is the following:

1. 06-096 CMR 106 regulates fuel sulfur content. However, the use of propane or Natural Gas is more stringent and shall be considered BACT.
2. A PM emission limit of 0.05 lb PM/MMBtu shall be considered BACT. The PM<sub>10</sub> limits are derived from the PM limits.
3. SO<sub>2</sub>, NO<sub>x</sub>, CO and VOC emission rates are based on AP-42 data dated 7/08 when firing propane and AP-42 data dated 2/98 when firing Natural Gas.
4. Visible emissions from the stacks serving each unit 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 3-hour period.

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D. Emergency Engines OFC-CAT, OFC-ONAN and DDR-CUM FP

OFC-CAT, OFC-ONAN and DDR-COM FP were manufactured in 2001, 1996, and 1993 respectively. All three engines are located at an area source of Hazardous Air Pollutants. OFC-CAT and DDR-CUM FP are classified as existing stationary combustion ignition engines. OFC-ONAN is classified as an existing stationary spark ignition engine. Therefore, none of these engines are subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR, Part 63, Subpart ZZZZ, or NSPS 40 CFR, Part 60, Subparts IIII or JJJJ.

Due to the potential for tight electricity supplies, ISO New England has taken several precautionary steps to ensure the reliability of the region-wide bulk power system. One of those steps is the implementation of the Demand Response Program. This program offers financial incentives to customers, such as L.L. Bean, to reduce electricity demand during peak periods. This program can significantly improve the reliability of the region-wide bulk power system and hopefully allow ISO New England to avoid drastic measures, such as brown outs.

In order for L.L. Bean to participate in the Demand Response Program, they need to start their generators and run them prior to, or in lieu of, loss of off-site power. L.L. Bean will only operate in this manner if there is a documented request from ISO New England under their emergency OP-4 procedures. ISO New England's OP-4 is a procedure which establishes criteria and guidelines for actions during capacity deficiencies. OP-4 is implemented when there is determined to be a serious threat to the integrity of the bulk power system. Therefore, the Department has agreed to redefine the term "emergency" as it applies to L.L. Bean's generators to include ISO New England OP-4 emergencies.

Therefore "Emergency Generator", as it applies to L.L. Bean, is defined as any stationary internal combustion engine whose operation is limited to emergency situations, required testing and maintenance, and ISO New England OP-4 emergencies. Examples include stationary engines used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary engines used to pump water in the case of fire or flood.

Additionally, L.L. Bean shall only be permitted to operate their generators in response to an OP-4 emergency for a total of no more than 50 hours each calendar year.

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BPT (OFC-CAT) and BACT (OFC-ONAN and DDR-CUM FP) are the following:

1. OFC-CAT and DDR-CUM FP shall fire only diesel fuel with a maximum sulfur content not to exceed 0.05% by weight.
2. OFC-ONAN shall fire only propane.
3. The Emergency Engines shall each be limited to 500 hr/yr of operation based on a 12 month rolling total. Compliance shall be demonstrated by a written log of all generator operating hours.
4. 06-096 CMR 106 regulates fuel sulfur content. However, the use of Propane and Diesel Fuel with a maximum sulfur content of 0.05% is more stringent and shall be considered BPT and BACT.
5. 06-096 CMR 103 regulates PM emission limits for OFC-CAT (0.12 lb/MMBtu). A PM limit of 0.12 lb/MMBtu shall be considered BACT for OFC-ONAN and DDR-CUM FP. The PM<sub>10</sub> limits are derived from the PM limits.
6. NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 10/96 for OFC-CAT and DDR-CUM FP.
7. NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 8/00 for OFC-ONAN.
8. Visible emissions from OFC-CAT and DDR-CUM FP shall each not exceed 20% opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period.
9. Visible emissions from OFC-ONAN 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.

E. Seasonal Emergency Generators

L.L. Bean operates three seasonal emergency generators. These generators are put into service on November 1<sup>st</sup> of each year and kept on-site for emergency power generation purposes through the holiday season. They are removed from service by January 1<sup>st</sup> of each year. As the generators brought into service are different each year they must be considered new generators and are thus subject to New Source Performance Standards 40 CFR Part 60, Subpart III, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*. Because these generators are subject to Subpart III, they are exempt from the requirements of 40 CFR, Part 63, Subpart ZZZZ. While the generators brought on-site are not the same each year, the capacities are the same. Seasonal Emergency Generators 1, 2, and 3 are rated at 2000, 2000, and 800 kW respectively.

Emergency Generator is defined as any stationary internal combustion engine whose operation is limited to emergency situations and required testing and

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maintenance. Examples include stationary engines used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary engines used to pump water in the case of fire or flood. Stationary engines used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

A summary of the BACT analysis for the Seasonal Emergency Generators is the following:

1. The Seasonal Generators shall only be operated between November 1<sup>st</sup> and December 31<sup>st</sup> of each year.
2. Each generator shall fire only diesel fuel with a maximum sulfur content not to exceed 500 ppm.
3. Beginning October 1, 2010, each generator shall fire only diesel fuel with a maximum sulfur content not to exceed 15 ppm.
4. Each generator shall be limited to 20 hr/yr of operation for maintenance checks and readiness testing. Each generator shall be limited to 200 hours per year of total operation. Compliance shall be demonstrated by a written log of all generator operating hours.
5. Each generator shall be equipped with a non-resettable hour meter.
6. 06-096 CMR 103 regulates PM emission limits. The PM<sub>10</sub> limits are derived from the PM limits.
7. NO<sub>x</sub>, CO, and VOC emission limits are based upon AP-42 data dated 10/96.
8. L.L. Bean shall operate and maintain each generator in accordance with the manufacturer's written instructions. L.L. Bean shall not change settings that are not approved in writing by the manufacturer.
9. Visible emissions from each generator shall not exceed 20% opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period.

F. Degreaser Unit

L.L. Bean operates two parts washers, each with a 30 gallon capacity. The parts washers use "Buckeye Shopmaster" brand solvent. The parts washers are subject to the requirements found in *Solvent Cleaners*, 06-096 CMR 130 (last amended June 28, 2004).

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G. Annual Emission Restrictions

1. 16,450 MMBtu of fuel in the propane/Natural Gas units. Emission are calculated based on the worst-case scenario of firing 100% Propane for PM, SO<sub>2</sub>, NO<sub>x</sub>, and VOC, and firing 100% Natural Gas for CO.
2. 14,000 MMBtu of fuel in the #2 fuel oil/Natural Gas units. Emissions are calculated based on the worst-case scenario of firing 100% #2 fuel oil for PM, SO<sub>2</sub>, and NO<sub>x</sub>, and the firing of 100% Natural Gas for CO and VOC.
3. OFC-CAT, OFC-ONAN and DDR-CUM FP shall each be limited to 500 hr/yr of operation.
4. Seasonal Emergency Generators 1, 2, and 3 shall each be limited to 200 hours of operation per year (calendar year basis).
5. L.L. Bean shall be restricted to the following annual emissions:

**Total Allowable Annual Emission for the Facility**

Tons/Year

(used to calculate the annual license fee)

<b>Emission Units</b>	<b>PM</b>	<b>PM<sub>10</sub></b>	<b>SO<sub>2</sub></b>	<b>NO<sub>x</sub></b>	<b>CO</b>	<b>VOC</b>
Propane/Natural Gas	0.41	0.41	0.01	1.14	0.69	0.09
#2 Oil/Natural Gas	0.56	0.56	3.53	1.00	0.59	0.04
OFC-CAT	0.13	0.13	0.05	4.63	1.00	0.37
OFC-ONAN	0.01	0.01	0.01	0.40	0.05	0.02
DDR-CUM FP	0.03	0.03	0.01	0.93	0.20	0.07
Seasonal Unit 1	0.20	0.20	0.09	5.41	1.44	0.15
Seasonal Unit 2	0.20	0.20	0.09	5.41	1.44	0.15
Seasonal Unit 3	0.09	0.09	0.04	2.30	0.61	0.06
<b>Total</b>	<b>1.63</b>	<b>1.63</b>	<b>3.83</b>	<b>21.22</b>	<b>6.02</b>	<b>0.95</b>

**III. AMBIENT AIR QUALITY ANALYSIS**

According to the 06-096 CMR 115, the level of air quality analyses required for a minor source shall be determined on a case-by case basis. Based on the information available in the file, and the similarity to existing sources, Maine Ambient Air Quality Standards (MAAQS) will not be violated by this source.

**ORDER**

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

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

The Department hereby grants Air Emission License A-764-71-E-R/A 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.

**STANDARD CONDITIONS**

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 M.R.S.A. §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [06-096 CMR 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 CMR 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 CMR 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353. [06-096 CMR 115]

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- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 CMR 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 CMR 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 CMR 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [06-096 CMR 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [06-096 CMR 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:
- A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
    - 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
    - 2. pursuant to any other requirement of this license to perform stack testing.
  - B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
  - C. submit a written report to the Department within thirty (30) days from date of test completion.  
[06-096 CMR 115]

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- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
  - B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
  - C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
- [06-096 CMR 115]
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [06-096 CMR 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 CMR 115]
- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [06-096 CMR 115]

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**SPECIFIC CONDITIONS**

(16) Propane/Natural Gas Units (OFC ARU #1, OFC ARU #2, OFC ARU #5, OFC ARU #9-#12, OFC/WH, OFC/s UH1, and OFC/s UH2

A. The Propane/Natural Gas Units shall be limited to 16,450 MMBtu of fuel on a 12 month rolling total. Delivery records documenting quantity received shall be kept for compliance purposes. [06-096 CMR 115, BACT]

B. Emissions shall not exceed the following when firing propane [06-096 CMR 115, BACT]:

<b>Emission Unit</b>	<b>PM (lb/hr)</b>	<b>PM<sub>10</sub> (lb/hr)</b>	<b>SO<sub>2</sub> (lb/hr)</b>	<b>NO<sub>x</sub> (lb/hr)</b>	<b>CO (lb/hr)</b>	<b>VOC (lb/hr)</b>
OFC ARU #1	0.12	0.12	0.01	0.36	0.19	0.03
OFC ARU #2	0.06	0.06	0.01	0.17	0.10	0.01
OFC ARU #5	0.09	0.09	0.01	0.25	0.14	0.02
OFC ARU #9	0.09	0.09	0.01	0.25	0.14	0.02
OFC ARU #10	0.09	0.09	0.01	0.25	0.14	0.02
OFC ARU #11	0.09	0.09	0.01	0.25	0.14	0.02
OFC ARU #12	0.09	0.09	0.01	0.25	0.14	0.02
OFC/WH	0.05	0.05	0.01	0.14	0.08	0.01
OFC/s UH1	0.07	0.07	0.01	0.19	0.11	0.01
OFC/s UH2	0.07	0.07	0.01	0.19	0.11	0.01

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C. Emissions shall not exceed the following when firing natural gas [06-096 CMR 115, BACT]:

Emission 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)
OFC ARU #1	0.12	0.12	0.01	0.24	0.20	0.01
OFC ARU #2	0.06	0.06	0.01	0.12	0.10	0.01
OFC ARU #5	0.09	0.09	0.01	0.18	0.15	0.01
OFC ARU #9	0.09	0.09	0.01	0.18	0.15	0.01
OFC ARU #10	0.09	0.09	0.01	0.18	0.15	0.01
OFC ARU #11	0.09	0.09	0.01	0.18	0.15	0.01
OFC ARU #12	0.09	0.09	0.01	0.18	0.15	0.01
OFC/WH	0.05	0.05	0.01	0.10	0.08	0.01
OFC/s UH1	0.07	0.07	0.01	0.14	0.12	0.01
OFC/s UH2	0.07	0.07	0.01	0.14	0.12	0.01

D. Visible emissions from the stacks serving each propane/natural gas firing unit 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 3-hour period. [06-096 CMR 101]

(17) **#2 Fuel Oil/Natural Gas Firing Units (OFC/S ARU #1, OFC/S ARU #2, DRS BLR #1, and DRS BLR #2)**

A. The #2 Fuel Oil/Natural Gas Firing Units shall be limited to 14,000 MMBtu of fuel on a 12 month rolling total. Delivery records documenting quantity and type of fuel received shall be kept for compliance purposes. [06-096 CMR 115, BACT]

B. The #2 Fuel Oil/Natural Gas Firing Units shall fire only natural gas or #2 fuel oil that meets the criteria in ASTM D396. [06-096 CMR 115, BACT]

C. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
OFC/S ARU #1	PM	0.08 #2 fuel oil 0.05 Nat Gas	06-096 CMR 103(2)(B)(1)(a), BACT
OFC/S ARU #2	PM	0.08 #2 fuel oil 0.05 Nat Gas	06-096 CMR 103(2)(B)(1)(a), BACT

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D. Emissions shall not exceed the following when firing #2 Fuel Oil: [06-096 CMR 115, BACT]:

Emission 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)
OFC/S ARU #1	0.30	0.30	1.89	0.54	0.13	0.01
OFC/S ARU #2	0.30	0.30	1.89	0.54	0.13	0.01
DRS BLR #1	0.20	0.20	1.26	0.36	0.09	0.01
DRS BLR #2	0.20	0.20	1.26	0.36	0.09	0.01

E. Emissions shall not exceed the following when firing Natural Gas: [06-096 CMR 115, BACT]:

Emission 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)
OFC/S ARU #1	0.19	0.19	0.01	0.38	0.32	0.02
OFC/S ARU #2	0.19	0.19	0.01	0.38	0.32	0.02
DRS BLR #1	0.13	0.13	0.01	0.25	0.21	0.01
DRS BLR #2	0.13	0.13	0.01	0.25	0.21	0.01

F. Visible emissions from the stacks serving each #2 Fuel Oil/Natural Gas fired unit shall not exceed 20% opacity on a six (6) minute block average basis, except for no more than one (1), six (6) minute block average in a 3-hour period when firing #2 Fuel Oil. [06-096 CMR 101]

G. Visible emissions from the stacks serving each #2 Fuel Oil/Natural Gas fired unit 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 3-hour period when firing Natural Gas. [06-096 CMR 101]

(18) **Emergency Engines (OFC-CAT, OFC-ONAN, and DDR-CUM FP)**

A. Each emergency engine shall be limited to 500 hr/yr of operation. Hour meters shall be operated to demonstrate compliance. [06-096 CMR 115, BPT, BACT]

B. A log shall be maintained documenting the date, time, and reason for operation for each emergency engine. [06-096 CMR 115, BPT, BACT]

C. OFC-CAT and DDR-CUM FP shall fire diesel fuel with a sulfur content not to exceed 0.05%. Delivery receipts shall be kept documenting sulfur content. [06-096 CMR 115, BPT, BACT]

D. OFC-ONAN shall fire only propane fuel. [06-096 CMR 115, BACT]

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E. Emissions shall not exceed the following: [06-096 CMR 115, BPT, BACT]

Emission 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)
OFC-CAT	0.50	0.50	0.22	18.52	3.99	1.47
OFC-ONAN	0.03	0.03	0.01	1.59	0.19	0.06
DDR-CUM FP	0.10	0.10	0.04	3.70	0.80	0.29

F. Visible emissions from OFC-CAT and DDR-CUM FP shall each be limited to no more than 20% opacity on a six minute block average, except for no more than two (2), six (6) minute block averages in a 3-hour period. [06-096 CMR 101]

G. Visible emissions from OFC-ONAN shall be limited to no more than 10% opacity on a six minute block average, except for no more than one (1), six (6) minute block average in a 3-hour period. [06-096 CMR 101]

(19) **OP-4 Emergencies (Applies to OFC-CAT and OFC-ONAN only)**

A. L.L. Bean shall only operate the emergency generators for periods of maintenance and readiness testing, emergencies when off-site power is unavailable, and ISO New England OP-4 emergencies. [06-096 CMR 115, BPT]

B. L.L. Bean shall keep records for OP-4 emergencies which include the date, which generators were operated, start time and stop time for each generator, and documentation that L.L. Bean was contacted by ISO New England and asked to reduce consumption as part of an OP-4 event. [06-096 CMR 115, BPT]

C. L.L. Bean shall not operate the emergency generators for more than 50 hours each per calendar year in response to an OP-4 emergency. [06-096 CMR 115, BPT]

(20) **Seasonal Generators**

A. Each generator shall fire only diesel fuel with a maximum sulfur content not to exceed 500 ppm. [40 CFR 60.4207(a)]

B. Beginning October 1, 2010, each generator shall fire only diesel fuel with a maximum sulfur content not to exceed 15 ppm. [40 CFR 60.4207(b)]

C. Compliance with the sulfur content limits shall be based on fuel records from the supplier showing the type of fuel delivered and the sulfur content of the fuel. [06-096 CMR 115, BACT]

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- D. Each generator shall be limited to 100 hr/yr of operation for maintenance checks and readiness testing. Each generator shall be limited to 200 hours per year of total operation. Compliance shall be demonstrated by a written log of all generator operating hours. [40 CFR 60.4211(E) and 06-096 CMR 115, BACT]
- E. Each generator shall be equipped with a non-resettable hour meter. [40 CFR 60.4209(a)]
- F. Emissions shall not exceed the following for each generator:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
Generator	PM	0.12	06-096 CMR 103(2)(B)(1)(a)

- G. Emissions shall not exceed the following [06-096 CMR 115, BACT]:

Emission 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)
Generator 1	2.03	2.03	0.87	54.08	14.37	1.52
Generator 2	2.03	2.03	0.87	54.08	14.37	1.52
Generator 3	0.86	0.86	0.37	23.04	6.12	0.65

- H. Each generator is subject to PM, CO, and NO<sub>x</sub> + VOC emission requirements set forth in 40 CFR 60, Subpart IIII. Compliance with these emission requirements shall be demonstrated by certification from the manufacturer that this engine class meets the appropriate Tier standards. [40 CFR 60, Subpart IIII]
- I. Facility shall operate and maintain each generator in accordance with the manufacturer's written instructions. Facility shall not change settings that are not approved in writing by the manufacturer. [40 CFR 60.4211(a)]
- J. Visible emissions from the each generator shall each not exceed 20% opacity on a six (6) minute block average, except for no more than two (2), six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]
- K. The Seasonal Generators shall only be operated between November 1<sup>st</sup> and December 31<sup>st</sup> of each year. [06-096 CMR 115, BACT]

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(21) Parts Washers

The 2 parts washers at L.L. Bean are subject to *Solvent Cleaners*, 06-096 CMR 130 (last amended June 28, 2004).

A. L.L. Bean shall keep records of the amount of solvent added to each parts washer. [06-096 CMR 115, BPT]

B. The following are exempt from the requirements of 06-096 CMR 130 [06-096 CMR 130]:

1. Solvent cleaners using less than two liters (68 oz) of cleaning solvent with a vapor pressure of 1.00 mmHg, or less, at 20° C (68° F);
2. Wipe cleaning; and,
3. Cold cleaning machines using solvents containing less than or equal to 5% VOC by weight.

C. The following standards apply to cold cleaning machines that are applicable sources under 06-096 CMR 130.

1. L.L. Bean shall attach a permanent conspicuous label to each unit summarizing the following operational standards [06-096 CMR 130]:
  - (i) Waste solvent shall be collected and stored in closed containers.
  - (ii) Cleaned parts shall be drained of solvent directly back to the cold cleaning machine by tipping or rotating the part for at least 15 seconds or until dripping ceases, whichever is longer.
  - (iii) Flushing of parts shall be performed with a solid solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure that does not exceed 10 psig. Flushing shall be performed only within the freeboard area of the cold cleaning machine.
  - (iv) The cold cleaning machine shall not be exposed to drafts greater than 40 meters per minute when the cover is open.
  - (v) Sponges, fabric, wood, leather, paper products and other absorbent materials shall not be cleaned in the degreaser.
  - (vi) When a pump-agitated solvent bath is used, the agitator shall be operated to produce no observable splashing of the solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used.
  - (vii) Spills during solvent transfer shall be cleaned immediately. Sorbent material shall be immediately stored in covered containers.
  - (viii) Work area fans shall not blow across the opening of the degreaser unit.
  - (ix) The solvent level shall not exceed the fill line.
2. The remote reservoir cold cleaning machine shall be equipped with a perforated drain with a diameter of not more than six inches. [06-096 CMR 130]

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- (22) L.L. Bean shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (38 M.R.S.A. §605).

DONE AND DATED IN AUGUSTA, MAINE THIS 22nd DAY OF September, 2010.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: *Beth Nagusky*  
BETH NAGUSKY, ACTING COMMISSIONER

**The term of this license shall be five (5) years from the signature date above.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 4/15/2009

Date of application acceptance: 5/5/2009

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This Order prepared by Jonathan Voisine, Bureau of Air Quality.

