



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION

PAUL R. LEPAGE
GOVERNOR

JAMES P. BROOKS
Acting COMMISSIONER

U.S. Department of the Interior/
Acadia National Park
Hancock County
Winter Harbor, Maine
A-866-71-D-M (SM)

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

After review of the air emissions license minor revision request, 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 Department finds the following facts:

I. REGISTRATION

A. Introduction

The U.S. Department of the Interior/Acadia National Park (Acadia National Park) has requested a minor revision to remove three boilers from the air emission license. Acadia National Park was issued air emission license A-866-71-C-R/M on October 7, 2008, permitting the operation of emission sources associated with their Schoodic Education and Research Facility.

B. Emission Equipment

The following equipment is addressed in this air emission license:

Boilers to be Removed

| Equipment | Maximum Capacity (MMBtu/hr) | Max. Firing Rate (gal/hr) | Fuel Type, % sulfur | Stack # |
|---------------------------------------|------------------------------------|----------------------------------|----------------------------|----------------|
| Barracks Bldg 1084 & Galley Bldg 1105 | 1.5 | 10.7 | #2 fuel oil, 0.5% | 1105-B |
| Gymnasium Bldg 1138 | 2.5 | 17.5 | #2 fuel oil, 0.5% | 1138-B |
| Barracks Bldg 1084a | 1.9 | 13.6 | #2 fuel oil, 0.5% | 1084a-B |

Two boilers, three generators, a paint booth, a wood dust collection system, and a gasoline storage tank will continue to be licensed.

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AUGUSTA, MAINE 04333-0017
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PORTLAND, MAINE 04103
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PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04679-2094
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C. Application Classification

This amendment will not increase emissions of any pollutant. Therefore, this modification is determined to be a minor revision and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 CMR 115 (last amended December 24, 2005).

II. BEST PRACTICAL TREATMENT (BPT)

A. Boiler Removal

Acadia National Park has recently removed three on-site buildings and their respective boilers. The buildings were the Barracks Building 1084/Galley Building 1105, the Gymnasium Building 1138, and the Barracks Building 1084a. The boilers were all #2 fired units between 1.5 MMBtu and 2.5 MMBtu/hr capacity.

B. Annual Emissions

Acadia National Park shall be restricted to the following annual licensed emissions on a 12 month rolling total, based on 8760 hours/year operation for the boilers, 500 hours/year for each of the emergency generators, and the use of the paint booth:

Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

| <u>Equipment</u> | <u>PM</u> | <u>PM₁₀</u> | <u>SO₂</u> | <u>NO_x</u> | <u>CO</u> | <u>VOC</u> |
|--------------------------------------|-------------|------------------------|-----------------------|-----------------------|------------|-------------|
| Boiler - Rockefeller Bldg 1001 | 0.1 | 0.1 | 4.0 | 1.1 | 0.3 | 0.02 |
| Boiler - Water Tower Bldg 1141 | 0.1 | 0.1 | 4.2 | 1.2 | 0.3 | 0.02 |
| Back-up Generator - Bldg 1002 | 0.2 | 0.2 | 0.03 | 2.5 | 0.5 | 0.2 |
| Back-up Generator - Bldg 1045 | 0.2 | 0.2 | 0.03 | 2.3 | 0.5 | 0.2 |
| Trailer Mounted Generator DG - 20 | 0.07 | 0.07 | 0.01 | 1.0 | 0.2 | 0.08 |
| Paint Booth | | | | | | 4 |
| TOTALS | 0.67 | 0.67 | 8.27 | 8.1 | 1.8 | 4.52 |

III. AMBIENT AIR QUALITY ANALYSIS

Based on the total facility licensed emissions, Acadia National Park continues to be below the emissions level thresholds required for modeling and monitoring.

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

The Department hereby grants Air Emission License A-866-71-D-M subject to the conditions found in Air Emission License A-866-71-C-R/M 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

The following shall replace condition (16) in air emission license A-866-71-C-R/M (issued October 7, 2008):

(16) Boilers

- A. The two licensed boilers at Acadia National Park shall fire fuel oil meeting the criteria of ASTM D396. Compliance shall be demonstrated by fuel records from the supplier showing the quantity and type of fuel delivered. Records of annual fuel use shall be kept on a 12-month rolling total basis. [06-096 CMR 115, BPT]

B. Emissions from the two boilers shall not exceed the following [06-096 CMR 115, BPT]:

| | PM (lb/hr) | PM ₁₀ (lb/hr) | SO ₂ (lb/hr) | NO _x (lb/hr) | CO (lb/hr) | VOC (lb/hr) |
|--|---------------|-----------------------------|----------------------------|----------------------------|---------------|----------------|
| Rockefeller Bldg 1001 (1.8 MMBtu/hr) | 0.03 | 0.03 | 0.91 | 0.26 | 0.07 | 0.01 |
| Water Tower Bldg 1141 (1.9 MMBtu/hr) | 0.03 | 0.03 | 0.95 | 0.27 | 0.07 | 0.01 |

C. Visible emissions from each boiler shall not exceed 20% opacity on a six (6) minute block average, except for no more than one (1) six (6) minute block averages in a continuous 3-hour period. [06-096 CMR 101]

DONE AND DATED IN AUGUSTA, MAINE THIS *19th* DAY OF *January*, 2011.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: *James P. Brooks*

JAMES P. BROOKS, ACTING COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-866-71-C-R/M.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: February 26, 2010

Date of application acceptance: March 1, 2010

Date filed with the Board of Environmental Protection:

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

