

**Boralex Stratton Energy, Inc.**  
**Franklin County**  
**Stratton, Maine**  
**A-368-70-H-A**

**Departmental**  
**Findings of Fact and Order**  
**Part 70 Air Emission License**  
**Amendment #5**

After review of the Administrative Revision 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

FACILITY	Boralex Stratton Energy (BSE)
INITIAL LICENSE NUMBER	A-368-70-A-I
LICENSE TYPE	Administrative Revision
NAIC CODES	4911 – Electrical Generation
NATURE OF BUSINESS	Electric Generating Station
FACILITY LOCATION	Route 27, Stratton, Maine
DATE OF INITIAL LICENSE ISSUANCE	October 24, 2000
DATE OF Administrative Revision	April 5, 2006
LICENSE EXPIRATION DATE	October 24, 2005
LICENSE RENWAL RECEIVED DATE	April 29, 2005

B. Description of Administrative Revision

BSE has requested an Administrative Revision to:

Operate the 4-cell ESP with all fields energized while burning construction demolition debris (CDD), with the exception of startup, shutdown and malfunction.

Perform stack testing for: Antimony, Arsenic, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury, Nickel, Selenium, Vanadium, Hydrogen Chloride and Dioxin at the following intervals:

- If the average percent of the “as combusted” fuel is greater than 25% CDD, the required testing frequency is two stack tests per year. The first stack test will be required in the spring and the second stack test will be required in the fall. Testing will be over a two year period.
- If the average percent of the “as combusted” fuel is 11% to 25% CDD, the required testing frequency is one test per year for two years.
- If the average percent of the “as combusted” fuel is 0% to 10% CDD, no testing is required.
- Analysis of acrolein shall be conducted twice during the course of this emissions testing program.

## **ORDER**

The Department hereby grants Administrative Revision A-368-70-H-A, subject to the conditions found in Part 70 License A-368-70-A-I, amendments A-368-70-B-M, A-368-70-C-A, A-368-70-D-A, A-368-70-E-A and in addition to the following conditions:

### **The following shall replace Condition (24)G of Part 70 License A-368-70-A-I:**

- (24) G. Particulate matter (PM, PM<sub>10</sub>) emissions from Boiler 1 shall be controlled by the operation and maintenance of a multiple centrifugal cyclone separator followed by an electrostatic precipitator (ESP).

While burning CDD, with the exception of startup, shutdown and malfunction, BSE shall operate the 4-cell ESP with all fields energized.

BSE shall ensure that the installed ESP is operated at all times to minimize emissions and to maximize operational efficiency. If at any time during plant operations a malfunction should result in loss of an ESP field or chamber, the facility must take immediate action to correct the failed field or chamber and return it to service within 72 hours unless provisions to combust only unadulterated wood fuel (whole tree chips, mill residues, etc...) have been executed within this time. Upon written notification to the Department, and in accordance with the Bureau of Air Quality's Air Emission Compliance Test Protocol, BSE may perform additional particulate emission testing while burning CDD to demonstrate compliance with 3 of the 4 ESP cells energized, but under no circumstances shall BSE be relieved of its obligation to meet its licensed emission limits. While burning only unadulterated wood fuel BSE shall operate, at a minimum, the number of ESP chambers and number of fields per chamber that were operated during the most recent demonstration of compliance with the licensed particulate emission limits..

Upon written notification to the Department, and in accordance with the Bureau of Air Quality's Air Emission Compliance Test Protocol, BSE may perform additional particulate emission testing to demonstrate compliance with alternative operating scenarios, but under no circumstances shall BSE be relieved of its obligation to meet its licensed emission limits.

Data for the following points in the ESP shall be recorded once per day during operation:

- 1) Primary and secondary voltages on each field
  - 2) Primary and secondary current on each field
- [MEDEP Chapter 140, BPT]

**The following is a new condition to Part 70 License A-368-70-A-I:**

- (49) BSE shall perform stack testing for: Antimony, Arsenic, Cadmium, Chromium III, Chromium VI, Copper, Lead, Mercury, Nickel, Selenium, Vanadium, Hydrogen Chloride and Dioxin at the following intervals:
- If the average percent of the “as combusted” fuel is greater than 25% CDD, the required testing frequency is two stack tests per year. The first stack test will be required in the spring and the second stack test will be required in the fall. Testing will be over a two year period.
  - If the average percent of the “as combusted” fuel is 11% to 25% CDD, the required testing frequency is one test per year for two years.
  - If the average percent of the “as combusted” fuel is 0% to 10% CDD, no testing is required.
  - Analysis of acrolein shall be conducted twice during the course of this emissions testing program.

[MEDEP Chapter 140, BPT]

DONE AND DATED IN AUGUSTA, MAINE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_ 2006.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
DAVID P. LITTELL, COMMISSIONER

**The term of this amendment shall be concurrent with the term of Air Emission License A-368-70-A-I.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application December 16, 2005

Date of application acceptance December 27, 2005

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

This Order prepared by Mark E. Roberts, Bureau of Air Quality