



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

JOHN ELIAS BALDACCI  
GOVERNOR

DAVID P. LITTELL  
COMMISSIONER

**Hissong Ready-Mix & Aggregates, LLC**  
York County  
Eliot, Maine  
A-1025-71-A-N

**Departmental  
Findings of Fact and Order  
Air Emission License**

After review of the air emission 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., §344 and §590, the Department finds the following facts:

**I. REGISTRATION**

**A. Introduction**

1. Hissong Ready-Mix & Aggregates, LLC, (Hissong) located in Eliot, Maine has applied for an Air Emission License, permitting the operation of a concrete batch plant.
2. The equipment addressed in this license is located at 50 MacLellan Lane, Eliot, Maine.

**B. Emission Equipment**

**Concrete Plant**

| <u>Equipment</u>     | <u>Production Rate<br/>(cubic yards/hour)</u> | <u>Control Devices</u> |
|----------------------|---|------------------------|
| Concrete Batch Plant | 200   | Dust collection unit   |

**Heating Equipment**

| <u>Equipment</u>         | <u>Maximum<br/>Capacity</u> | <u>Fuel Type</u> | <u>Maximum<br/>Firing Rate</u> |
|--------------------------|-----------------------------|------------------|--------------------------------|
| Boiler #1 (Water heater) | 2.8 MMBtu/hr                | #2, 0.5% S       | 20 gal/hr                      |

**Process Equipment**

| <u>Equipment</u>       | <u>Storage Capacity</u> | <u>Pollution Control Equipment</u> |
|------------------------|-------------------------|------------------------------------|
| Cement Storage Silo #1 | 89 CY                   | RA140 Dust Collection Unit         |
| Cement Storage Silo #2 | 89 CY                   | RA140 Dust Collection Unit         |

AUGUSTA  
17 STATE HOUSE STATION  
AUGUSTA, MAINE 04333-0017  
(207) 287-7688 FAX: (207) 287-7826  
RAY BLDG., HOSPITAL ST.

BANGOR  
106 HOGAN ROAD, SUITE 6  
BANGOR, MAINE 04401  
(207) 941-4570 FAX: (207) 941-4584

PORTLAND  
312 CANCO ROAD  
PORTLAND, MAINE 04103  
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE  
1235 CENTRAL DRIVE, SKYWAY PARK  
PRESQUE ISLE, MAINE 04679-2094  
(207) 764-0477 FAX: (207) 760-3143

C. Application Classification

The application for Hissong is classified as non-major based on concrete batch plant emissions. The license is for a non-major source and has been processed as such.

II. BEST PRACTICAL TREATMENT

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 06-096 CMR 100. 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. Concrete Batch Plant

To meet the requirements of BPT for control of particulate matter (PM) emissions from the cement silo, particulate emissions shall be vented through a dust collection unit maintained for 99% removal efficiency. Visible emissions from the cement silo dust collection unit are limited to no greater than 10% opacity on a six (6) minute block average basis except for no more than one (1) six (6) minute block average in a 1-hour period. The facility shall take corrective action if visible emissions from the dust collection unit exceed 5% opacity.

All components of the concrete batch plant shall be maintained so as to prevent PM leaks. Visible emissions from concrete batching operations 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 1-hour period.

C. Cement Silos # 1 and #2

Hissong operates two silos for cement storage. Particulate matter from each silo is controlled with a dust collection unit. Visible emissions from the dust collection unit shall not exceed 10% opacity on a 6-minute block average basis, except for no more than one (1) six (6) minute block average in a 1 hour period.

The facility shall take corrective action if visible emissions from the dust collection unit exceed 5% opacity.

D. Boiler #1

Boiler #1 is an Infern-O-Therm Water Boiler, manufactured and installed in 2009, and has a maximum design heat input capacity of 2.8 MMBtu/hr. Due to its small size, Boiler #1 is not subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc for unit greater than 10 MMBtu/hr, manufactured after June 9, 1989.

A summary of the BACT analysis for Boiler #1 is the following:

1. The total fuel use for the boiler shall not exceed 100,000 gallons per calendar year of #2 fuel oil, meeting the criteria of ASTM D396, with a maximum sulfur content not to exceed 0.5% by weight.
2. *Low Sulfur Fuel*, 06-096 CMR 106 (last amended July 4, 1999) regulates fuel sulfur content, however in this case BACT analysis for SO<sub>2</sub> determined a more stringent limit of 0.5% was appropriate and shall be used.
3. The PM and PM<sub>10</sub> limits are derived from 06-096 CMR 103.
4. NO<sub>x</sub>, emission rate is based on BPT of 0.30 lb/MMBtu.
5. CO, and VOC emission limits are based upon AP-42 data dated 9/98.
6. Visible emissions from the boiler 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.

E. Stock Piles and Roadways

Visible emissions from a fugitive emission source shall not exceed of 20% opacity, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour.

F. General Process Emissions

Visible emissions from any other general process (conveyor belts, bucket elevators, bagging operations, etc.) 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 1-hour period.

G. Facility Emissions

Hissong shall be restricted to the following annual emissions, based a fuel limit of 100,000 gallons of ASTM D396 compliant #2 fuel oil with a maximum sulfur content of 0.5%, per calendar year:

**Total Licensed Annual Emissions for the Facility**  
**Tons Per Year**  
(Used to calculate the annual license fee)

|                          | <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> |
|--------------------------|------------|------------------------|-----------------------|-----------------------|------------|------------|
| Boiler #1 (Water heater) | 0.56       | 0.56                   | 3.43                  | 2.10                  | 0.25       | 0.01       |
| <b>Total TPY</b>         | <b>0.6</b> | <b>0.6</b>             | <b>3.5</b>            | <b>2.1</b>            | <b>0.3</b> | <b>0.1</b> |

**III. AMBIENT AIR QUALITY ANALYSIS**

According to 06-096 CMR 115, the level of air quality analyses required for a minor new 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:

- 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-1025-71-A-N, 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. [06-096 CMR 115]
- (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 38 M.R.S.A. § 353. [06-096 CMR 115]
- (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]
- (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]

#### **SPECIFIC CONDITIONS**

(16) **Concrete Batch Plant**

- A. Particulate emissions from each of the cement silos shall be vented through a dust collection unit and all components of the batch plant shall be maintained so as to prevent PM leaks. [06-096 CMR 115, BPT]
- B. To document maintenance of the cement silo dust collection unit, the licensee shall keep a maintenance log recording the date and location of all failures as well as all routine maintenance. The maintenance log shall be kept on-site at the concrete batch plant location. [06-096 CMR 115, BPT]
- C. Opacity from each of the cement silo dust collection unit is limited to no greater than 10% on a 6 minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. Hissong shall take corrective action if visible emissions from the dust collection unit exceed 5% opacity. [06-096 CMR 101]
- D. PM emissions from the concrete batching operation shall be controlled so as to prevent visible emissions in excess of 20% opacity on a six (6) minute block average basis, except for no more than one (1) six (6) minute block average in a 1-hour period. [06-096 CMR 101]

(17) **Cement Silos #1 and #2**

- A. Particulate emissions from each of Cement Silos #1 and #2 shall be vented through a dust collection unit. [06-096 CMR 115]
- B. To document maintenance of the dust collection unit, Hissiong shall keep a maintenance log recording the date and location of all dust collection unit failures, as well as all routine maintenance. The maintenance log shall be located at the facility whenever the facility is in operation. [06-096 CMR 115]
- C. Visible emissions from the dust collection unit shall not exceed 10% opacity on a 6-minute block average basis, except for no more than one 6-minute block average in a 1 hour period. The facility shall take corrective action if visible emissions from dust collection unit exceeds 5% opacity. [06-096 CMR 115]

(18) **Boiler #1**

- A. Total fuel use for Boiler #1 shall not exceed 100,000 gallons per calendar year of ASTM D396 compliant #2 fuel oil with a maximum sulfur content not to exceed 0.5% by weight. Compliance shall be based on fuel receipts from the supplier showing the quantity of fuel delivered and the percent sulfur of the fuel. Records of annual fuel use shall be kept on a calendar year. [06-096 CMR 115, BPT]
- B. Emissions shall not exceed the following [06-096 CMR 115, BPT]:

| <b>Emission Unit</b> | <b>PM<br/>(lb/hr)</b> | <b>PM<sub>10</sub><br/>(lb/hr)</b> | <b>SO<sub>2</sub><br/>(lb/hr)</b> | <b>NO<sub>x</sub><br/>(lb/hr)</b> | <b>CO<br/>(lb/hr)</b> | <b>VOC<br/>(lb/hr)</b> |
|----------------------|-----------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------|------------------------|
| Boiler #1            | 0.22                  | 0.22                               | 1.41                              | 0.84                              | 0.10                  | 0.01                   |

Compliance shall be demonstrated on request of the Department through stack testing in accordance with the appropriate method found in 40 CFR Part 60, Appendix A.

- C. Visible emissions from Boiler #1 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. [06-096 CMR 101]

(19) **Stockpiles and Roadways**

Visible emissions from a fugitive emission source shall not exceed 20% opacity, except for no more than five (5) minutes in any 1-hour period. Compliance shall be determined by an aggregate of the individual fifteen (15)-second opacity observations which exceed 20% in any one (1) hour. [06-096 CMR 101]

(20) **General Process Sources**

Visible emissions from any other general process (conveyor belts, bucket elevators, bagging operations, etc.) 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 1-hour period. [06-096 CMR 115, BPT]

(21) **Equipment Relocation** [06-096 CMR 115, BPT]

- A. Hissong shall notify the Bureau of Air Quality, by a written notification at least 48 hours prior to relocation of any equipment carried on this license. Written notice may be sent by mail, facsimile (fax), or e-mail. Notification sent by mail shall be sent to the address below or to a Department Regional Office:

Attn: Relocation Notice  
Maine DEP  
Bureau of Air Quality  
17 State House Station  
Augusta, ME 04333-0017

Equipment relocation notification can also be done on-line with e-notice at [www.maine.gov/dep/air/compliance/forms/relocation](http://www.maine.gov/dep/air/compliance/forms/relocation).

The notification shall include the address of the equipment's new location, an identification of the equipment and the license number pertaining to the relocated equipment.

- B. Written notification shall also be made to the municipality where the equipment will be relocated, except in the case of an unorganized territory where notification will be made to the respective county commissioners.
- (22) Hissong shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [06-096 CMR 115, BPT]

Hissong Ready-Mix & Aggregates, LLC  
York County  
Eliot, Maine  
A-1025-71-A-N

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Departmental  
Findings of Fact and Order  
Air Emission License

- (23) Hissong 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-C].

DONE AND DATED IN AUGUSTA, MAINE THIS 24<sup>th</sup> DAY OF February, 2010.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: James P. Little  
DAVID P. LITTLE, 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: 11/30/09

Date of application acceptance: 12/17/09

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

This Order prepared by N. Lynn Cornfield, Bureau of Air Quality.

