

OWEN J. FOLSOM INC.)	DEPARTMENTAL
PENOBSCOT COUNTY)	FINDINGS OF FACT AND ORDER
ALTON, MAINE)	AIR EMISSION LICENSE
A-617-71-G-A)	AMENDMENT #2

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., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

1. Owen J. Folsom Inc. (Folsom) of Alton, Maine was issued Air Emission License A-617-71-E-R on July 3rd, 2001, permitting the operation of emission sources associated with their hot mix asphalt plant and concrete batch plant. The license was subsequently amended on Feb 8th, 2002 (A-617-71-F-A) to operate a portable crushed stone and gravel facility
2. Folsom has requested an amendment to their license in order to add a second rock crusher to their portable crushed stone and gravel facility.

A. Emission Equipment

Rock Crushers:

<u>Designation</u>	<u>Powered</u>	<u>Process Rate</u>	<u>Control Device</u>	<u>Date of Manufacture</u>
RC #2	diesel	350	Spray Nozzles	2000

Diesel Units:

<u>Source ID</u>	<u>Max. Capacity</u>	<u>Max. Firing Rate</u>	<u>Power Output</u>
	<u>MMBtu/hr</u>	<u>gal/hr</u>	<u>hp</u>
RC #2 Drive	2.6	18.9	405

B. 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 given in Maine’s Air Regulations. This modification is determined to be a minor modification and has been processed as such.

II. BEST PRACTICAL TREATMENT

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 Chapter 100 of the Bureau of Air Quality regulations. BPT for new units consists of meeting Best Available Control Technology (BACT).

A. Rock Crusher

RC #2 was manufactured in 2000 with a rated capacity 350 tons/hr. RC #2 is therefore subject to EPA New Source Performance Standards (NSPS) Subpart OOO for Nonmetallic Mineral Processing Plants manufactured after August 31, 1983, with capacities greater than 150 tons/hr for portable plants and greater than 25 tons/hr for non-portable plants.

The regulated pollutant from the rock crusher is particulate emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crusher, Folsom shall operate and maintain water sprays on the rock crushers. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a 6 minute block average basis.

B. Fuel Burning Unit

The RC #2 Drive is utilized primarily to power RC #2. Total fuel use in the RC #2 Drive shall not exceed 50,000 gal/year of #2 fuel oil, based on a 12 month rolling total, with a maximum sulfur content of 0.35% by weight. Emissions for the diesel units were based on AP-42 factors, mass balance and Chapter 103.

To meet BPT visible emission requirements, the diesel units shall not exceed an opacity of 20% on a 6 minute block average basis, except for no more than 2 six minute block averages in a continuous 3-hour period.

C. Stock Piles and Roadways

BPT for all potential sources of fugitive PM emissions, including material stockpiles and unpaved roadways, shall be controlled by wetting with water, with calcium chloride, or other methods as approved by the Bureau of Air Quality to prevent visible emissions in excess of 10% opacity, on a 3 minute block average basis.

D. Facility Emissions and Fuel Use Caps

- 600,000 gal/yr of #2 fuel oil in the asphalt plant and concrete batch plant with a maximum sulfur content of 0.35%, 100,000 gal of which may be substituted in the rotary dryer with specification waste oil with a maximum sulfur content of 0.7% by weight.
- 50,000 gal of #2 fuel oil in portable generator #1 with a maximum sulfur content of 0.35% by weight. (12 month rolling total)

OWEN J. FOLSOM INC.)
PENOBSCOT COUNTY)
ALTON, MAINE)
A-617-71-G-A 3

DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE
AMENDMENT #2

- 50,000 gal of #2 fuel oil in RC #2 drive with a maximum sulfur content of 0.35% by weight. (12 month rolling total)
- Due to prohibitive cost, only one fuel tank is available on site. Therefore Folsom is permitted to use #2 fuel oil with a sulfur content of 0.35% in the RC #2 Drive.

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

<u>Pollutant</u>	<u>Tons/Year</u>
PM	5.9
PM ₁₀	5.9
SO ₂	21.3
NO _x	46.5
CO	13.2
VOC	6.8

III. AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulation Chapter 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

The Department hereby grants Air Emission License Amendment A-617-71-G-A, subject to the conditions found in Air Emission License A-617-71-E-R, and in amendment A-617-71-F-A, and in addition to the following conditions:

SPECIFIC CONDITIONS

(27) **Rock Crushers**

- a. Folsom shall operate and maintain spray nozzles for particulate control on RC #2. Visible emissions from the crusher shall be limited to no greater than 10% opacity on a 6 minute block average basis.
- b. Folsom shall maintain a log detailing the maintenance on the water spray nozzles. The maintenance log shall be kept on-site at the rock crushing location.
- c. Folsom shall maintain a log detailing and quantifying the hours of operation on a daily basis for RC #2. The operation log shall be kept on-site at the rock crushing location.

OWEN J. FOLSOM INC.)
PENOBSCOT COUNTY)
ALTON, MAINE)
A-617-71-G-A 4

DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE
AMENDMENT #2

(28) **New Source Performance Standards for rock crushers**

- a. The new RC #2 is subject to 40 CFR Part 60 Subparts A and OOO and Folsom shall comply with the notification and record keeping requirements of 40 CFR Part 60.676 and Part 60.7, except for Section (a)(2) of 60.7 per Subpart OOO, §60.676(h).
- b. Folsom shall have an initial performance test performed on the rock crushing operation per the applicable sections of 40 CFR Part 60, Subpart OOO, §60.675. This consists of a certified Method 9 observation. The performance test shall be completed within 60 days after achieving the maximum production rate at which the unit will be operated, but no later than 180 days after initial startup of the unit. Folsom shall submit a test notice to the regional inspector at least 30 days prior to the performance test. Any rescheduled test requires a 7 day notice to the regional inspector.

(29) **Diesel Units**

- a. Fuel use records and receipts (including quantity in gallons and % sulfur content) for the RC #2 Drive shall be maintained for at least six years and available to the Department upon request.
- b. Folsom shall not exceed the total use of 50,000 gal/year of diesel fuel (12 month rolling total), with a sulfur content not to exceed 0.35% by weight on RC #2. Emissions from the RC #2 Drive shall be limited to the following

<u>Pollutant</u>	<u>lb/hr</u>
PM	0.3
PM ₁₀	0.3
SO ₂	0.1
NO _x	11.5
CO	2.5
VOC	0.9

- c. Visible emissions from the diesel units shall not exceed 20% opacity on a 6 minute block average, except for no more than 2 six minute block averages in a continuous 3 hour period.

(30) Folsom shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order.

(31) Folsom shall pay the annual air emission license fee within 30 days of **July 31st** of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the

OWEN J. FOLSOM INC.)
PENOBSCOT COUNTY)
ALTON, MAINE)
A-617-71-G-A 5

DEPARTMENTAL
FINDINGS OF FACT AND ORDER
AIR EMISSION LICENSE
AMENDMENT #2

stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3.

(32) This amendment shall expire concurrently with Air Emission License A-617-71-E-R and Amendment A-617-71-F-A.

DONE AND DATED IN AUGUSTA, MAINE THIS _____ DAY OF _____, 2003.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 5/22/03

Date of application acceptance: 5/27/03

Date filed with the Board of Environmental Protection: _____

This order prepared by Jonathan Voisine Bureau of Air Quality.