

<b>O.J. Folsom, Inc.</b>	)	<b>Departmental</b>
<b>d.b.a. Round Rock Concrete</b>	)	<b>Findings of Fact and Order</b>
<b>Penobscot County</b>	)	<b>Air Emission License</b>
<b>Old Town, Maine</b>	)	<b>Amendment #1</b>
<b>A-617-71-F-A</b>	)	

After review of the air emission license amendment 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

1. O.J. Folsom, Inc. (OJF) of Old Town, Maine was issued Air Emission License A-617-71-E-R on July 3, 2001, permitting the operation of emission sources associated with their asphalt plant and concrete batch plant.
2. OJF has requested an amendment to their license for the addition of a portable rock crusher and wash plant powered by a portable generator.

B. Emission Equipment

OJF is authorized to operate the following equipment, in addition to the equipment included in Air Emission License A-617-71-E-R:

**Rock Crushers:**

<u>Designation</u>	<u>Powered</u>	<u>Process Rate</u> <u>(tons/hour)</u>	<u>Control Device</u>	<u>Date of</u> <u>Manufacture</u>
Rock Crusher #1	electrical	135	Spray Nozzles	1993

**Diesel Units:**

<u>Source ID</u>	<u>Max. Capacity</u>	<u>Max. Firing Rate</u>	<u>Power Output</u>
Portable Generator #1	3.2 MMBtu/hr	25.3 gal/hr	523 hp

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 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**

The rock crusher was manufactured in 1993 with a rated capacity 135 tons/hr. The rock crusher is therefore not 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.

The regulated pollutant from the rock crusher is particulate matter emissions. To meet the requirements of Best Practical Treatment (BPT) for control of particulate matter (PM) emissions from the rock crushers, OJF 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 six-minute block average basis.

### **B. Diesel Units**

Portable Generator #1 is utilized primarily to power Rock Crusher #1 and the Wash Plant. Total fuel use in the diesel unit shall not exceed 50,000 gal/year of #2 fuel, based on a 12-month rolling total, with a maximum sulfur content of 0.35% by weight.

OJF currently has one bulk fuel tank with secondary containment for the refueling of the mobile equipment that operates with the crusher. Since it would present an economic burden to install an additional tank in order to fire a different fuel in only the generator, BACT for SO<sub>2</sub> requirements shall be the firing of #2 fuel oil with a maximum sulfur content of 0.35% by weight.

Emissions for the diesel units were based on AP-42 factors dated 10/96 for uncontrolled diesel industrial engines. To meet BACT visible emission requirements, the diesel unit shall not exceed an opacity of 20% on a six-minute block average basis, except for no more than 2 six-minute block averages in a continuous 3-hour period.

### **F. Facility Emissions and Fuel Use Caps**

- 600,000 gallons per year #2 fuel oil in the asphalt plant and concrete batch plant with a maximum sulfur content of 0.35%, 100,000 gallons 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 gallons per year of diesel fuel in Portable Generator #1, with a maximum sulfur content of 0.35% by weight.  
(based on a 12-month rolling total)

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

<b>Pollutant</b>	<b>Tons/year</b>
PM	5.5
PM <sub>10</sub>	5.5
SO <sub>2</sub>	21.1
NO <sub>x</sub>	31.4
CO	9.9
VOC	5.6

**III. AMBIENT AIR QUALITY ANALYSIS**

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by-case basis. Based on the total facility emissions, OJF is below the emissions level 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 Available Control Technology,
- 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-617-71-F-A, subject to the conditions found in Air Emission A-617-71-E-R and in the following conditions:

**The following are new conditions:**

- (23) Rock Crushers
  - a. OJF shall operate and maintain spray nozzles for particulate control on Rock Crusher #1. Visible emissions from the crusher shall be limited to no greater than 10% opacity on a six-minute block average basis.

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- b. OJF 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. OJF shall maintain a log detailing and quantifying the hours of operation on a daily basis for all of the primary, secondary and tertiary rock crushers. The operation log shall be kept on-site at the rock crushing location.

(24) Diesel Unit

- a. Fuel use records and receipts for the Portable Generator #1 shall be maintained for at least six years and available to the Department upon request.
- b. OJF shall not exceed the total use of 50,000 gal/year of #2 fuel (12-month rolling total), with a sulfur content not to exceed 0.35% by weight. Emissions from the Portable Generator #1 shall be limited to the following:

<b>Pollutant</b>	<b>lb/hr</b>	<b>TPY</b>
PM	0.39	0.5
PM <sub>10</sub>	0.39	0.5
SO <sub>2</sub>	1.16	3.6
NO <sub>x</sub>	14.12	15.1
CO	3.04	3.3
VOC	1.12	1.2

- c. Visible emissions from the diesel units shall not exceed 30% opacity on a six-minute block average, except for no more than 2 six-minute block averages in a continuous 3-hour period.

(25) Equipment Relocation

- a. OJF shall notify the Bureau of Air Quality, by a written notification at least 10 days in advance, prior to relocation of any equipment carried on this license. The notification shall be sent to:

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

The notification shall include the address of the equipment's new location 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.

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(26) This amendment shall expire concurrently with Air Emission License A-617-71-E-R.

DONE AND DATED IN AUGUSTA, MAINE THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE THE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: September 12, 2001

Date of application acceptance: September 12, 2001

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

This order prepared by Elisha McVay, Bureau of Air Quality.