



STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



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GOVERNOR

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COMMISSIONER

Shaw Brothers Construction, Inc.
Cumberland County
Gorham, Maine
A-425-71-L-R/M (SM)

Departmental
Findings of Fact and Order
Air Emission License
Renewal/Minor Revision

FINDINGS OF FACT

After review of the air emission license renewal application, staff investigation reports, and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 Maine Revised Statutes Annotated (M.R.S.A.), §344 and §590, the Maine Department of Environmental Protection (Department) finds the following facts:

I. REGISTRATION

A. Introduction

Shaw Brothers Construction, Inc. (Shaw Brothers) has applied to renew their Air Emission License permitting the operation of their crushed stone and gravel facility.

Shaw Brothers has requested a minor revision to their license in order to allow for the addition of a Nordberg L105 jaw crushing unit, to be designated Jaw Crusher L105 #2, and a JCI FT200 cone crushing unit, to be designated Cone Crusher FT200, and their associated diesel engines. These units were previously regulated under 06-096 CMR 149, *General Permit Regulation For Nonmetallic Mineral Processing Plants* as CIN-000116 and CIN-000117, respectively.

The main office is located at 341 Mosher Road in Gorham, Maine.

B. Emission Equipment

Rock Crushers

<u>Designation</u>	<u>Powered</u>	<u>Process Rate (tons/hour)</u>	<u>Date of Manuf.</u>	<u>Control Device</u>
Jaw Crusher L100	Diesel #1	100	1996	Spray Nozzles
Jaw Crusher L105	Diesel #5	100	1999	Spray Nozzles
Jaw Crusher L105 #2 (N)	Diesel #8	100	2005	Spray Nozzles
Jaw Crusher L125	Diesel #3	470	1994	Spray Nozzles
Cone Crusher L125	Diesel #4	300	1997	Spray Nozzles
Jaw Crusher L416	Diesel #6	100	2006	Spray Nozzles
Cone Crusher L416	Diesel #6	100	2006	Spray Nozzles
Cone Crusher LT300	Diesel #7	300	2002	Spray Nozzles
Cone Crusher FT200 (N)	Diesel #9	200	2005	Spray Nozzles

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 04769
(207) 764-0477 FAX: (207) 760-3143

Generator Units

Source ID	Max. Capacity (MMBtu/hr)	Max. Firing Rate	Date of Manuf.	Fuel Type, % Sulfur
Diesel #1 - Cat 3306	2.2	15.9 gal/hr	1996	Distillate, 0.0015% S
Diesel #3 - Cat 3406	3.6	26.0 gal/hr	1994	Distillate, 0.0015% S
Diesel #4 - Cat 3406	3.6	26.0 gal/hr	1997	Distillate, 0.0015% S
Diesel #5 - Cat 3306	2.2	15.9 gal/hr	1999	Distillate, 0.0015% S
Diesel #6 - Cat 3456	5.3	38.5 gal/hr	2006*	Distillate, 0.0015% S
Diesel #7 - Cat C-12	3.6	26.0 gal/hr	2002	Distillate, 0.0015% S
Diesel #8 - Cat 3306 (N)	2.2	15.9 gal/hr	2005	Distillate, 0.0015% S
Diesel #9 - JD 6081 (N)	1.3	9.6 gal/hr	2005	Distillate, 0.0015% S

* Diesel #6 (Cat 3456) was originally manufactured in 2004, but was completely rebuilt by the manufacturer in 2006 due to a factory defect.

C. Application Classification

The application for Shaw Brothers includes the installation of new equipment; however, it will not increase emissions of any pollutant. Therefore, this license is determined to be a renewal and a minor revision and has been processed as such through *Major and Minor Source Air Emission License Regulations*, 06-096 Code of Maine Rules (CMR) 115 (as amended). With the fuel limit on diesel drive engines, the facility is licensed below the major source thresholds for criteria pollutants and hazardous air pollutants, and is therefore considered a synthetic minor and an area source of HAP.

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 (as amended). 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. Rock Crushers

Shaw Brothers is currently licensed to operate seven (7) rock crushers units at their Gorham facility, including Jaw Crushers L100, L105, L125, and L416, and Cone Crushers L125, L416, and LT300. Shaw Brothers has requested that this Air Emission License reflect the addition of one cone crusher and one jaw crusher, designated Cone Crusher FT200 and Jaw Crusher L105 #2. The two new units were previously regulated under 06-096 CMR 149, *General Permit for Nonmetallic Mineral Processing Plants*, as CIN-000116 and CIN-000117; however the facility would like all crushing units on one license. All nine jaw and cone crushing units are portable.

Jaw Crushers L100, L105, L105 #2, and L416, and Cone Crusher L416 each have a design production rate of 100 tons/ hour. Jaw Crusher L125, Cone Crusher L125, Cone Crusher LT300, and Cone Crusher FT200 have design production rates of 470 tons/hour, 300 tons/hour, 300 tons/hour, and 200 tons/hour, respectively. The manufacturer date of the jaw and cone crushers range from the oldest in 1994 to the newest in 2006.

Due to the size of each portable unit, Jaw Crushers L100, L105, L105 #2, and L416, and Cone Crusher L416 are not subject to EPA New Source Performance Standards (NSPS) 40 CFR Part 60, 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.

Jaw Crusher L125, Cone Crusher L125, Cone Crusher LT300, and Cone Crusher FT200 are subject to NSPS 40 CFR Part 60, Subpart OOO since they each have maximum throughput ratings greater than 150 tons/hour, are portable, and were manufactured after August 31, 1983. A certified Method 9 observation was conducted on April 30, 2005 for Jaw Crusher L125 and Cone Crusher L125, and on July 10, 2009 for Cone Crusher LT300, which demonstrated compliance with the initial performance test requirement of the federal regulation. New Cone Crusher FT200 shall perform an initial performance test per the applicable sections of 40 CFR Part 60, Subpart OOO, §60.675.

The regulated pollutant from the rock crushers is particulate matter (PM) emissions. To meet the requirements of Best Practical Treatment (BPT) or Best Available Control Technology (BACT) for control of PM emissions from the rock crushers, Shaw Brothers shall maintain water sprays on the rock crushers and

operate as needed to control visible emissions. Visible emissions from the rock crushers shall be limited to no greater than 10% opacity on a six (6) minute block average basis.

C. Diesel Generators

Shaw Brothers operates several portable diesel generator sets to power the jaw and cone rock crushing units. Each of the generators has a maximum design capacity and is a power source for a corresponding crusher as listed below:

- Diesel #1 (Cat 3306) is rated at 2.2 MMBtu/hr and powers Jaw Crusher L100;
- Diesel #3 (Cat 3406) and Diesel #4 (Cat 3406) are each rated at 3.6 MMBtu/hr and powers Jaw Crusher L125 and Cone Crusher L125, respectively;
- Diesel #5 (Cat 3306) is rated at 2.2 MMBtu/hr and powers Jaw Crusher L105;
- Diesel #6 (Cat 3456) is rated at 5.3 MMBtu/hr and powers both Jaw Crusher L416 and Cone Crusher L416;
- Diesel #7 (Cat C-12) is rated at 3.6 MMBtu/hr and powers Cone Crusher LT300;
- New Diesel #8 (Cat 3306) is rated at 2.2 MMBtu/hr and powers new Jaw Crusher L105 #2; and
- New Diesel #9 (JD 6081) is rated at 1.3 MMBtu/hr and powers new Cone Crusher FT200.

The generators were all manufactured in the timeframe between 1994 and 2006. The fuel fired in the generators shall be limited to 75,000 gallons of distillate fuel per year, based on a calendar year, with a maximum sulfur content not to exceed 15 ppm (0.0015% sulfur, by weight).

The generators are considered non-road engines, as opposed to stationary engines, since they are all portable and will be moved to various sites. Therefore, the generators are not subject to either 40 CFR Part 60, Subpart IIII, *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* or 40 CFR Part 63, Subpart ZZZZ, *National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*. The definition in 40 CFR Part 1068.30 states that a non-road engine is an internal combustion engine that meets certain criteria, including: "Portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform." 40 CFR Part 1068.30 further states that an engine is not a non-road engine if it remains or will remain at a location for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. An engine located at a seasonal source (a stationary source that remains in a single location on a permanent basis (i.e., at least two years) and that operates at that single location approximately three months (or more) each year) is an engine that remains at a seasonal source during the full annual operating period of the seasonal source.

The BACT/BPT emission limits for Diesels #1, #3, #4, #5, #7, #8, and #9 were based on the following:

- PM/PM₁₀ - 0.12 lb/MMBtu from 06-096 CMR 103 for Diesels #3, #4 & #7
 - 0.12 lb/MMBtu based on 06-096 CMR 103 for Diesels #1, #5, #8, & #9
- SO₂ - Combustion of distillate fuel with a maximum sulfur content not to exceed 15 ppm (0.0015% sulfur, by weight)
- NO_x - 4.41 lb/MMBtu from AP-42, Table 3.3-1 dated 10/96
- CO - 0.95 lb/MMBtu from AP-42 Table 3.3-1 dated 10/96
- VOC - 0.35 lb/MMBtu from AP-42 Table 3.3-1 dated 10/96
- Opacity - 06-096 CMR 101

The BPT emission limits for Diesel #6 were based on the following:

- PM/PM₁₀ - 0.12 lb/MMBtu from 06-096 CMR 103
- SO₂ - Combustion of distillate fuel with a maximum sulfur content not to exceed 15 ppm (0.0015% sulfur, by weight)
- NO_x - 3.2 lb/MMBtu from AP-42, Table 3.4-1 dated 10/96
- CO - 0.85 lb/MMBtu from AP-42, Table 3.4-1 dated 10/96
- VOC - 0.09 lb/MMBtu from AP-42, Table 3.4-1 dated 10/96
- Opacity - 06-096 CMR 101

The BACT/BPT emission limits for the generators are the following:

Units	PM (lb/hr)	PM ₁₀ (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Diesel #1 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #3 - Cat 3406	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #4 - Cat 3406	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #5 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #6 - Cat 3456	0.6	0.6	0.01	16.9	4.5	0.5
Diesel #7 - Cat C-12	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #8 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #9 - JD 6081	0.2	0.2	0.01	5.8	1.3	0.5

Visible emissions from each of the generators shall not exceed 20% opacity on a 6-minute block average, except for no more than two (2) six (6) minute block averages in a 3-hour period.

Shaw Brothers shall be limited to a combined 75,000 gallons per year of distillate fuel for all of the generators.

D. Fugitive Emissions

Visible emissions from a fugitive emission source (including stockpiles and roadways) shall not exceed an opacity of 20%, 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.

E. General Process Emissions

Visible emissions from any general process (including conveyor belts, transfer points, etc.) associated with an NSPS rock crusher shall not exceed an opacity of 10% on a six (6) minute block average basis.

Visible emissions from any other general process (non-NSPS crusher conveyor belts, bucket elevators, bagging operations, truck loading operations, etc.) shall not exceed an opacity of 20% 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.

F. Annual Emissions

1. Total Annual Emissions

Shaw Brothers shall be restricted to the following annual emissions, based on a calendar year. The tons per year limits for the generators were calculated based on a combined 75,000 gallons per year of distillate fuel:

Total Licensed Annual Emissions for the Facility
Tons/year
(used to calculate the annual license fee)

	PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Diesel Generators	0.6	0.6	0.1	22.7	4.9	1.8
Total TPY	0.6	0.6	0.1	22.7	4.9	1.8

2. Greenhouse Gases

Greenhouse gases are considered regulated pollutants as of January 2, 2011 through 'Tailoring' revisions made to EPA's *Approval and Promulgation of Implementation Plans*, 40 CFR Part 52, Subpart A, §52.21 Prevention of Significant Deterioration of Air Quality rule. "Greenhouse gases" as defined in 06-096 CMR 100 (as amended) means the aggregate group of the following gases: Carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. Greenhouse gases (GHG) for

purposes of licensing are calculated and reported as carbon dioxide equivalents (CO₂ e).

Based on the facility's fuel use limit, the worst case emission factors from AP-42, IPCC (Intergovernmental Panel on Climate Change), and *Mandatory Greenhouse Gas Reporting*, 40 CFR Part 98, and the global warming potentials contained in 40 CFR Part 98, Shaw Brothers is below the major source threshold of 100,000 tons of CO₂ e per year. Therefore, no additional licensing requirements are needed to address GHG emissions at this time.

III. AMBIENT AIR QUALITY ANALYSIS

According to 06-096 CMR 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Modeling is not required for a renewal if the total emissions of any pollutant released do not exceed the following and there are no extenuating circumstances:

<u>Pollutant</u>	<u>Tons/Year</u>
PM ₁₀	25
SO ₂	50
NO _x	50
CO	250

Based on the total facility licensed emissions, Shaw Brothers is below the emissions level required for modeling.

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-425-71-L-R/M, 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 (38 M.R.S.A. §347-C).
- (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 Title 38 M.R.S.A. §353-A. [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 emissions 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) **Rock Crushers**

- A. Shaw Brothers shall install and maintain spray nozzles for particulate matter control on all the jaw and cone rock crusher units (Jaw Crushers L100, L105, L105 #2, L125, and L416, and Cone Crushers L125, L416, LT300, and FT200) and operate them as necessary to limit visible emissions to no greater than 10% opacity on a six (6) minute block average basis. [06-096 CMR 115, BACT/BPT and 06-096 CMR 101]

- B. Shaw Brothers shall maintain a log detailing and quantifying the hours of operation on a daily basis for all of the jaw and cone rock crushers. The operation log shall be kept on-site at the rock crushing location. [06-096 CMR 115, BACT/BPT]
- C. Shaw Brothers shall maintain a log detailing the maintenance on particulate matter control equipment (including spray nozzles). Shaw Brothers shall perform monthly inspections of any water sprays to ensure water is flowing to the correct locations and initiate corrective action within 24 hours if water is found to not be flowing properly. Records of the date of each inspection and any corrective action required will be included in the maintenance log. The maintenance log shall be kept on-site at the rock crushing location. [06-096 CMR 115, BACT/BPT]
- D. Shaw Brothers shall either have an initial performance test performed on the Cone Crusher FT200 per the applicable sections of 40 CFR Part 60, Subpart OOO; §60.675 or provide documentation to the Department that the initial performance test was previously performed. (Documentation that a successful initial performance test was performed outside of Maine may be accepted.) [06-096 CMR 115, BPT]
- E. An initial performance test on the Cone Crusher FT200 must 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. If the initial performance test for a facility falls within a seasonal shutdown, then with approval from the Department, the initial performance test may be postponed until no later than 60 calendar days after resuming operation of the affected equipment. [06-096 CMR 115, BPT]
- F. Shaw Brothers shall submit a test notice to the regional inspector at least 7 days prior to a performance test on the Cone Crusher FT200. [06-096 CMR 115, BPT]
- G. The crushers shall not be attached or clamped via cable, chain, turnbuckle, bolt, or other means (except electrical connections) to any anchor, slab, or structure (including bedrock) that must be removed prior to transportation. [06-096 CMR 115, BPT]
- H. Jaw Crusher L125, Cone Crusher L125, Cone Crusher LT300, and Cone Crusher FT200 are subject to 40 CFR Part 60 Subparts A and OOO and Shaw Brothers 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).

(17) **Portable Diesel Generators**

A. Fuel Use

1. Diesels #1, #3, #4, #5, #6, #7, #8, and #9 shall fire only distillate fuel with a maximum sulfur content not to exceed 15 ppm (0.0015% sulfur, by weight). [06-096 CMR 115, BACT]
2. Total fuel use for the generators shall not exceed 75,000 gallons per year of distillate fuel on a calendar year basis. [06-096 CMR 115, BPT]
3. Compliance shall be demonstrated by fuel records from the supplier showing the quantity, type, and the percent sulfur of fuel delivered. Records of annual fuel use shall be kept on a monthly and calendar year basis. [06-096 CMR 115, BPT]

B. Emissions shall not exceed the following:

Unit	Pollutant	lb/MMBtu	Origin and Authority
Diesel #3 - Cat 3406	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
Diesel #4 - Cat 3406	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
Diesel #6 - Cat 3456	PM	0.12	06-096 CMR 103(2)(B)(1)(a)
Diesel #7 - Cat C-12	PM	0.12	06-096 CMR 103(2)(B)(1)(a)

C. Emissions shall not exceed the following [06-096 CMR 115, BPT]:

Unit	PM (lb/hr)	PM ₁₀ (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Diesel #1 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #3 - Cat 3406	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #4 - Cat 3406	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #5 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #6 - Cat 3456	0.6	0.6	0.01	16.9	4.5	0.5
Diesel #7 - Cat C-12	0.4	0.4	0.01	15.9	3.4	1.3
Diesel #8 - Cat 3306	0.3	0.3	0.01	9.7	2.1	0.8
Diesel #9 - JD 6081	0.2	0.2	0.01	5.8	1.3	0.5

- D. Visible emissions from the generators shall each 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]

(18) **Fugitive Emissions**

Visible emissions from a fugitive emission source (including stockpile and roadways) shall not exceed an opacity of 20%, 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]

(19) **General Process Sources**

Visible emissions from any general process (including conveyor belts, transfer points, etc.) associated with an NSPS rock crusher shall not exceed an opacity of 10% on a six (6) minute block average basis. [40 CFR 60, Subpart OOO]

Visible emissions from any other general process (non-NSPS crusher conveyor belts, bucket elevators, bagging operations, truck loading operations, etc.) shall not exceed an opacity of 20% 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]

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

- A. Shaw Brothers shall notify the Bureau of Air Quality, by a written notification, prior to relocation of any equipment carried on this license. It is preferred for notice of relocation to be submitted through the Department's on-line e-notice at: www.maine.gov/dep/air/compliance/forms/relocation

Written notice may also be sent by fax (207-287-7641) or mail. Notification sent by mail shall be sent to the address below:

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, 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 shall be made to the respective county commissioners.

Shaw Brothers Construction, Inc.
Cumberland County
Gorham, Maine
A-425-71-L-R/M (SM)

14

Departmental
Findings of Fact and Order
Air Emission License
Renewal/Minor Revision

- (21) Shaw Brothers 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]
- (22) Shaw Brothers 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].

DONE AND DATED IN AUGUSTA, MAINE THIS 17 DAY OF June, 2014.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Maia Allen Robert Core for
PATRICIA W. AHO, COMMISSIONER

The term of this license shall be ten (10) years from the signature date above.

[Note: If a complete renewal application, as determined by the Department, is submitted prior to expiration of this license, then pursuant to Title 5 MRSA §10002, all terms and conditions of the license shall remain in effect until the Department takes final action on the renewal of the license.]

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 04/17/2014

Date of application acceptance: 04/24/2014

Date filed with the Board of Environmental Protection:

This Order prepared by Allison M. Hazard, Bureau of Air Quality.

