



DEPARTMENT ORDER

**The Lane Construction Corporation
Penobscot County
Hermon, Maine
A-257-71-S-M (SM)**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #1**

FINDINGS OF FACT

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 Maine Revised Statutes (M.R.S.) § 344 and § 590, the Maine Department of Environmental Protection (the Department) finds the following facts:

I. REGISTRATION

A. Introduction

The Lane Construction Corporation (Lane) was issued Air Emission License A-257-71-R-R/A on December 19, 2016, for the operation of emission sources associated with their hot mix asphalt (HMA) plant and crushed stone and gravel facility located at 1067 Odlin Road, Hermon, Maine.

In order to more closely align the facility's throughput and heat input limits to actual production and to maintain the facility's status as a synthetic minor source, Lane has requested a minor revision to their license in order to decrease the annual throughput limit for Batch Mix Asphalt Plant #26 from 488,000 tons/year of HMA to 486,000 tons/year of HMA and increase the heat input limit for the HYCGO-200 Hot Oil Heater from 4,200 MMBtu/year to 15,000 MMBtu/year.

The main office is located at 953 Odlin Road, Bangor, Maine.

B. Emission Equipment

The following equipment is addressed in this Air Emission License Amendment:

Asphalt Plant

<u>Equipment</u>	<u>Process Rate (tons/hour)</u>	<u>Max. Capacity (MMBtu/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Firing Rate</u>	<u>Control Device(s)</u>	<u>Date of Manuf.</u>
Batch Mix Asphalt Plant #26	420	150	Distillate fuel, 0.5% Spec. waste oil, 0.7%	1,071.4 gal/hr	Baghouse	Plant: Pre-1973 Burner: 1998
			Propane, negl.	1,657.5 gal/hr		
			Natural gas, negl.	145,631 scf/hr		

Heating Equipment

<u>Equipment</u>	<u>Max. Capacity (MMBtu/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Maximum Firing Rate</u>
HYCGO-200 Hot Oil Heater	2.1	Distillate fuel, 0.5%	15 gal/hr
		Propane, negl.	23.2 gal/hr
		Natural gas, negl.	2,039 scf/hr

C. Definitions

Distillate Fuel. For the purposes of this license, *distillate fuel* means the following:

- Fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials (ASTM) in ASTM D396;
- Diesel fuel oil numbers 1 or 2, as defined in ASTM D975;
- Kerosene, as defined in ASTM D3699;
- Biodiesel, as defined in ASTM D6751; or
- Biodiesel blends, as defined in ASTM D7467.

D. Application Classification

All rules, regulations, or statutes referenced in this air emission license refer to the amended version in effect as of the issued date of this license.

This amendment will increase emissions by less than 4 ton/year for each single pollutant and less than 8 ton/year for all pollutants combined. Therefore, this modification is determined to be a minor revision 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 C.M.R. ch. 100. Separate control requirement categories exist for new and existing equipment.

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. Batch Mix Asphalt Plant #26

Batch Mix Asphalt Plant #26 was given a limit of 488,000 tons of HMA per year on a 12-month rolling total basis in air emission license A-257-71-R-R/A (dated December 19, 2016). As part of this minor revision, Lane has requested to decrease this limit to 486,000 tons of HMA per year on a 12-month rolling total basis. This change will not affect the BPT emission limits established in air emission license A-257-71-R-R/A (dated December 19, 2016).

C. HYCGO-200 Hot Oil Heater

The HYCGO-200 Hot Oil Heater was given a heat input limit of 4,200 MMBtu/year on a 12-month rolling total basis in air emission license A-257-71-R-R/A (dated December 19, 2016). As part of this minor revision, Lane has requested to increase this limit to 15,000 MMBtu/year on a 12-month rolling total basis. This change will not affect the BPT emission limits established in air emission license A-257-71-R-R/A (dated December 19, 2016).

D. Annual Emissions

Lane shall be restricted to the following annual emissions, based on a 12-month rolling total. The tons per year limits were calculated based on a throughput limit of 486,000 tons per year of HMA for Batch Mix Asphalt Plant #26, a limit of 30,000 gal/year of distillate fuel for the CATD343 and CAT Generators combined, and a heat input limit of 15,000 MMBtu/year for the HYCGO-200 Hot Oil Heater:

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

	<u>PM</u>	<u>PM₁₀</u>	<u>SO₂</u>	<u>NO_x</u>	<u>CO</u>	<u>VOC</u>
Batch Mix Asphalt Plant #26	10.2	10.2	21.4	29.2	97.2	8.8
Generator CATD343 and CAT Generator	0.3	0.3	0.1	9.3	2.0	0.7
HYCGO-200 Hot Oil Heater	0.1	0.1	3.8	1.1	0.6	0.1
Total TPY	10.6	10.6	25.3	39.6	99.8	9.6

III. AMBIENT AIR QUALITY ANALYSIS

The level of ambient air quality impact modeling required for a minor source is determined by the Department on a case-by case basis. In accordance with 06-096 C.M.R. ch. 115, an ambient air quality impact analysis is not required for a minor source if the total licensed annual emissions of any pollutant released do not exceed the following levels and there are no extenuating circumstances:

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

The total licensed annual emissions for the facility are below the emission levels contained in the table above and there are no extenuating circumstances; therefore, an ambient air quality impact analysis is not required as part of this license.

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 Amendment A-257-71-S-M, subject to the conditions found in Air Emission License A-257-71-R-R/A and the following conditions.

Severability. The invalidity or unenforceability of any provision of this License Amendment or part thereof shall not affect the remainder of the provision or any other provisions. This License Amendment shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

SPECIFIC CONDITIONS

Specific Condition (16)(B.) of Air Emission License A-257-71-R-R/A (dated December 19, 2016) shall be replaced with the following:

(16) Batch Mix Asphalt Plant #26 (420 tons/hr)

- B. The annual throughput of Batch Mix Asphalt Plant #26 shall not exceed 486,000 tons of HMA per year on a 12-month rolling total basis. Production records shall be kept on a monthly and 12-month rolling total basis and shall include the number of tons of asphalt produced using each fuel. [06-096 C.M.R. ch. 115, BPT]

Specific Condition (19)(A.) of Air Emission License A-257-71-R-R/A (dated December 19, 2016) shall be replaced with the following:

(19) HYCGO-200 Hot Oil Heater

A. Fuel Use

1. The HYCGO-200 Hot Oil Heater is licensed to fire distillate fuel with a maximum sulfur content of 0.5% by weight, propane, and natural gas. [06-096 C.M.R. ch. 115, BPT]
2. Total fuel use for the HYCGO-200 Hot Oil Heater shall not exceed 15,000 MMBtu (equivalent to approximately 107,140 gal of distillate fuel) on a 12-month rolling total basis. [06-096 C.M.R. ch. 115, BPT]
3. Beginning July 1, 2018, Lane shall not purchase or otherwise obtain distillate fuel with a maximum sulfur content that exceeds 0.0015% by weight (15 ppm) for use in the HYCGO-200 Hot Oil Heater. [06-096 C.M.R. ch. 115, BPT]

4. Compliance shall be demonstrated by fuel records from the supplier showing the quantity, type, and the percent sulfur of the fuel delivered (if applicable). Fuel use shall be converted to MMBtu on a monthly and 12-month rolling total basis using heating values of 0.14 MMBtu/gal for distillate fuel, 0.0905 MMBtu/gal for propane, and 0.00103 MMBtu/scf for natural gas. [06-096 C.M.R. ch. 115, BPT]

DONE AND DATED IN AUGUSTA, MAINE THIS 2 DAY OF February, 2017.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: *Paul Allen Robert Cone* for
PAUL MERCER, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-257-71-R-R/A.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 12/27/2016

Date of application acceptance: 12/27/2016

Date filed with the Board of Environmental Protection:

This Order prepared by Jonathan E. Rice, Bureau of Air Quality.

