



STATE OF MAINE  
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE  
GOVERNOR

AVERY T. DAY  
ACTING COMMISSIONER

**Cianbro Fabrication and Coating  
Corporation  
Somerset County  
Pittsfield, Maine  
A-794-71-G-M**

**Departmental  
Findings of Fact and Order  
Air Emission License  
Amendment #3**

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

**I. REGISTRATION**

**A. Introduction**

Cianbro Fabrication and Coating Corporation (Cianbro) was issued Air Emission License A-794-71-D-R/A on November 4, 2011, permitting the operation of emission sources associated with their metal fabrication and industrial coating facility. The license was subsequently amended on September 23, 2013 (A-794-71-E-M), and on April 4, 2014 (A-794-71-F-M).

Cianbro has requested a minor revision to their license in order to add a temporary blast area for the blasting of galvanized steel.

The equipment addressed in this license is located at 335 Hunnewell Avenue, Pittsfield, Maine.

**B. Emission Equipment**

The following equipment is addressed in this air emission license:

**Process Equipment**

<b><u>Equipment</u></b>	<b><u>Production Rate</u></b>	<b><u>Pollution Control Equipment</u></b>	<b><u>Efficiency</u></b>
Blast Tent	10-12 pieces per 4 hour period	Dust Collector with 9 cartridge filters (2,340 square feet each)	99.8% at 0.5 micron particle size

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

C. Application Classification

This amendment will increase emissions by less than 4 ton/year for each single pollutant not including greenhouse gases (GHG) and less than 8 ton/year for all pollutants combined not including GHG. Therefore, this modification is determined to be a minor revision and has been processed as such.

II. **BEST PRACTICAL TREATMENT (BPT)**

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.

BPT for new sources and modifications requires a demonstration that emissions are receiving Best Available Control Technology (BACT), as defined in *Definitions Regulation*, 06-096 CMR 100 (as amended). BACT is a top-down approach to selecting air emission controls considering economic, environmental and energy impacts.

B. Process Description

The Blast Tent is required for the blasting of galvanized steel components prior to painting. The process requires that a lower pressure, less aggressive blast media be utilized; the currently permitted blast area is not set up to accommodate the activity. The components will be blasted in 10-12 piece batches, with each batch taking approximately 4 hours total time to complete, of which only 1 hour accounts for actual blasting.

C. Process Equipment

Cianbro has added a temporary Blast Tent for the blasting of galvanized steel components prior to painting. The Blast Tent consists of an 18 foot wide, 30 foot long, 14 foot high tent enclosed by a 2-sided canopy housing a portable abrasive blaster. The portable abrasive blaster uses blast media which is less aggressive than steel shot used in traditional shot blasters. The blast media is shot through a 7/16 inch nozzle run between 40 and 50 pounds per square inch of air pressure and has a 6.5 foot blast pot.

Particulate emissions from the Blast Tent are controlled by a 6000 cubic feet per minute diesel/electric dust collector. The dust collector has 2 air inlets at 16 inches square and 9 top loading filter cartridges cleaned by a timed cycle reverse air pulse. The filter cartridges consist of 2,340 square foot QX media with an efficiency of 99.8% at a 0.5 micron particle size. The engine is an 0.26 MMBtu/hr diesel engine and because it is

under 0.5 MMBtu/hr, this engine is considered an insignificant activity per 06-096 CMR 115, Appendix B and does not need to be addressed further in this license.

BACT for the Blast Tent is the operation, maintenance, and routine inspection of the dust collection system, Blast Tent, and the area around the tent. BACT for visible emissions from the Blast Tent Area dust collector filter outlet has been determined to be complying with 06-096 CMR 101, *Visible Emission Regulation*. Visible emissions from the Blast Tent Area dust collector filters 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.

D. Annual Emissions

This minor revision does not change the total annual licensed emissions from Cianbro.

III. **AMBIENT AIR QUALITY ANALYSIS**

The level of ambient air quality impact modeling required for a minor source shall be determined by the Department on a case-by case basis. In accordance with 06-096 CMR 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:

<b>Pollutant</b>	<b>Tons/Year</b>
PM <sub>10</sub>	25
SO <sub>2</sub>	50
NO <sub>x</sub>	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, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

Cianbro Fabrication and Coating  
Corporation  
Somerset County  
Pittsfield, Maine  
A-794-71-G-M

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The Department hereby grants Air Emission License A-794-71-G-M subject to the conditions found in Air Emission License A-794-71-D-R/A, in amendments A-794-71-E-M and A-794-71-F-M, and 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.

**SPECIFIC CONDITIONS**

**Specific Condition (26) is to be added and read as follows:**

**(26) Blast Tent Area**

- A. Cianbro shall operate and maintain a dust collector with filters on the Blast Tent, shall inspect the dust collector and filters prior to use, and shall maintain the dust collector per the manufacturer's recommendations based on hours worked. Cianbro shall document the inspections in a maintenance log containing information on filter changes and routine maintenance completed. [06-096 CMR 115, BACT]
- B. Cianbro shall inspect the tent routinely for any rips and tears and repair or replace any damaged tent portions immediately. The Blast Tent itself shall be cleaned via a vacuum truck every 4 months or sooner, as needed. [06-096 CMR 115, BACT]
- C. The area around the tent will be kept clear of tracked blast media. Waste blast media shall be disposed of properly. [06-096 CMR 115, BACT]
- D. Visible emissions from the Blast Tent Area and its associated equipment 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 101]

DONE AND DATED IN AUGUSTA, MAINE THIS 22 DAY OF September, 2015.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:

Maureen Robert Corne for  
AVERY T. DAY, ACTING COMMISSIONER

**The term of this amendment shall be concurrent with the term of Air Emission License A-794-71-D-R/A.**

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 8/26/2015

Date of application acceptance: 9/3/2015

Date filed with the Board of Environmental Protection:

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

