



DEPARTMENT ORDER

**Tex-Tech Industries, Inc.
Kennebec County
North Monmouth, Maine
A-473-71-I-M (SM)**

**Departmental
Findings of Fact and Order
Air Emission License
Minor Revision**

FINDINGS OF FACT

After review of the air emission license minor revision 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 (Department) finds the following facts:

I. REGISTRATION

A. Introduction

Tex-Tech Industries, Inc. (Tex-Tech) has requested a minor revision to their air emission license, A-473-71-H-R (9/16/16), in order to add a new calender and associated stack to the finishing department production line.

The equipment addressed in this minor revision is located at 105 North Monmouth Street, North Monmouth, Maine. The purchase of the equipment is to occur during the last quarter of 2017, and the installation is scheduled to take place during the first or second quarter of 2018.

B. Application Classification

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

Although this minor revision includes the installation of a new calender and associated stack, the application for Tex-Tech does not include the licensing of increased emissions. Therefore, this application is considered a minor revision under *Major and Minor Source Air Emission License Regulations*, 06-096 Code of Maine Rules (C.M.R.) ch. 115.

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 C.M.R. ch. 100. 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 C.M.R. ch. 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. Calender Installation

1) Project Description

Tex-Tech is planning to install a new calender in the production line located in their finishing department. The present process produces non-woven material which is made into sheets. A small portion of these sheets are passed through the calender process producing a thinner sheet with a bonded finish. The calender acts to compress the sheets between two, horizontally oriented, hot oil heated, rotating drums. The compression action produces sheets with a desired caliper or thickness. The drums of the calender will be heated with oil circulated through the drums in a closed loop system. The temperature of the oil will be controlled electronically utilizing a heat exchanger. The calender system includes a hood and shall be vented through to a stack.

The new calender will be twice the width of the existing calender providing more production flexibility and economic benefits. Once the new calender is operational, less production will be sent to the existing calender. However, having two calenders will provide extra capacity if needed.

2) BACT Analysis

The installation of the calender will not result in an increase in emissions since the process chemical used in making the sheet does not contain HAP or VOCs. Since the calender is electrically heated, it will not affect the heat demand on the boilers at the facility. The existing calender is listed in the Process Description "Bonding" section of Tex-Tech's air emission license. The new calender will operate similarly except that it utilizes a closed loop oil heating system that is electrically heated.

Tex-Tech proposes to continue the VOC tracking and record keeping requirements listed in Condition (20) of the Air Emission License as BACT.

3) Department Determination

The Department determines that the VOC tracking already in place in Condition (20) of the air emission license is BACT.

In addition, the visible emissions from the new calender stack or from any general process sources shall each not exceed 20% opacity on a six-minute block average basis. [06-096 C.M.R. ch. 115, BACT]

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.

The Department hereby grants Air Emission License Minor Revision A-473-71-I-M subject to the conditions found in Air Emission License A-473-71-H-R (9/16/16) and the following conditions.

SPECIFIC CONDITIONS

The following condition shall be added to the conditions found in A-473-71-H-R (9/16/16).

- (23) Visible emissions from the new calender stack or from any other general process sources shall each not exceed 20% opacity on a six-minute block average basis.
[06-096 C.M.R. ch. 115, BACT]

DONE AND DATED IN AUGUSTA, MAINE THIS 24 DAY OF October, 2017.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: Paul Mercer
PAUL MERCER, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-473-71-H-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 10/2/2017
Date of application acceptance: 10/2/2017
Date filed with the Board of Environmental Protection:
This Order prepared by Lisa P. Higgins, Bureau of Air Quality.

