



DEPARTMENT ORDER

**Cold Brook Energy, Inc.  
Penobscot County  
Hampden, Maine  
A-542-71-H-M**

**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 (Department) finds the following facts:

**I. REGISTRATION**

**A. Introduction**

Cold Brook Energy, Inc. (Cold Brook) was issued Air Emission License A-542-71-G-R on December 13, 2017, for the operation of emission sources associated with their bulk gasoline and fuel oil terminal.

Cold Brook has requested a minor revision to their license in order to clarify ongoing recordkeeping requirements.

The equipment addressed in this license amendment is located at 809 Main Road North, Hampden, Maine.

**B. Revision Description**

Cold Brook is subject to annual, facility-wide emission limits for volatile organic compounds (VOC) and hazardous air pollutants (HAP). These emission limits are on a 12-month rolling total basis. Compliance is demonstrated through recordkeeping and regular calculations of emissions.

Calculating emissions from the facility's storage tanks is a time consuming and involved process, and it was not the Department's intent to require this analysis be done on a monthly basis. Therefore, this amendment clarifies that Cold Brook is required to calculate emissions to demonstrate compliance with the annual limits at least once per year, although the Department may request additional calculations be performed for any 12-month period.

Additionally, in November 2019, EPA published updates to Compilation of Air Emission Factors (AP-42), Fifth Edition, Volume 1, Chapter 7, *Liquid Storage Tanks*. These revisions have not been incorporated into EPA's tanks emissions estimation software (TANKS 4.09d) which is referenced in Cold Brook's license. Therefore, the calculation

methodology required by this license has been updated to require Cold Brook to base emission calculations on the most current version of AP-42 or other alternative method approved by the Department.

C. Application Classification

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

This amendment will not increase licensed emissions of any pollutant. Therefore, this amendment is determined to be a minor revision and has been processed as such.

D. Facility Classification

With the annual, facility-wide emission limits on VOC and HAP, the facility is licensed as follows:

- As a synthetic minor source of air emissions, because Cold Brook is subject to license restrictions that keep facility emissions below major source thresholds for criteria pollutants; and
- As an area source of hazardous air pollutants (HAP), because the licensed emissions are below the major source thresholds for HAP.

Emissions of VOC and HAP are licensed above 80% of the major source threshold. Therefore, this facility is classified as an “80% Synthetic Minor” for the purpose of determining the minimum required compliance inspection frequency in accordance with Maine’s Compliance Monitoring Strategy.

E. Annual Emissions

This amendment will not change the facility’s licensed annual emissions.

**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 Amendment A-542-71-H-M subject to the conditions found in Air Emission License A-542-71-G-R 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**

**The following shall Replace Condition (16) of Air Emission License A-542-71-G-R:**

### **(16) Annual Emission Limit and Facility-wide Recordkeeping**

- A. Cold Brook shall be limited to annual facility VOC emissions of 49.9 tons per year based on a 12-month rolling total, and to annual facility HAP emissions of 9.9 tons per year for any single HAP and 24.9 tons per year for total HAP, both based on a 12-month rolling total. [06-096 C.M.R. ch. 115, BPT]
- B. Compliance with the annual VOC and HAP emission limits shall be demonstrated through the recordkeeping outlined below with calculations of emissions performed at least once annually. Additional calculation of emissions to demonstrate compliance with these limits shall be performed upon request by the Department.  
[06-096 C.M.R. ch. 115, BPT]
- C. Cold Brook shall maintain the following records showing the following information for each of the petroleum storage tanks:  
[06-096 C.M.R. ch. 115, BPT]
  1. Quantity and type of petroleum liquid stored in each tank on a daily basis;
  2. Reid vapor pressure or maximum true vapor pressure, as necessary to calculate tank emissions;
  3. Average storage temperature;
  4. Throughput for each tank;
  5. Tank emissions calculated in accordance with the most current version of AP-42 or other alternative method approved by the Department;
  6. Tank truck emissions assuming 1.3% of the vapors are displaced during loading (based on assumed capture efficiency of 98.7% as given in 40 C.F.R. Part 63, Subpart R);
  7. Dates and results of annual VCU testing; and
  8. HAP speciation data as given by the American Petroleum Institute (API) or other speciation data as obtained by a supplier.

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D. Cold Brook shall maintain records of all monthly inspections and leak inspections of all equipment utilizing sight, smell, and sound. [06-096 C.M.R. ch. 115, BPT]

DONE AND DATED IN AUGUSTA, MAINE THIS 18<sup>th</sup> DAY OF February, 2020.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_

GERALD D. REID, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-542-71-G-R.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 1/21/2020

Date of application acceptance: 1/22/2020

Date filed with the Board of Environmental Protection:

This Order prepared by Lynn Muzzey, Bureau of Air Quality.

