



DEPARTMENT ORDER

**Bowdoin College
 Cumberland County
 Brunswick, Maine
 A-76-71-AI-A**

**Departmental
 Findings of Fact and Order
 Air Emission License
 After-The-Fact Amendment #8**

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

Bowdoin College (Bowdoin) was issued Air Emission License A-76-71-Z-R/A on August 14, 2015, for the operation of emission sources associated with their educational facility. The license was subsequently amended as follows:

Amendment #	Date Issued	Brief Description
A-76-71-AA-A	October 5, 2016	<ul style="list-style-type: none"> • Adds Heating Plant Generator #2.
A-76-71-AB-M	June 8, 2018	<ul style="list-style-type: none"> • Adds natural gas as fuel to Smith Union Generator. • Removes Boiler #3, Admissions Building Boiler, Smith Union Boiler, Hubbard Hall Generator, and Rhodes Hall 1 Generator. • Adjusts fuel sulfur content of distillate fuel. • Adjusts specifications and naming conventions of Portable Generator #2, #3, and Stowe Hall Generator.
A-76-71-AC-A	August 30, 2019	<ul style="list-style-type: none"> • Removes Smith Union Generator, Portable Generators #1, #2, and #3, and the Thorne Hall Boiler. • Adds new Smith Union Generator and Roux Hall Generator.
A-76-71-AE-A	May 29, 2020	<ul style="list-style-type: none"> • Removes MacMillan House Boiler. • Adds Thorne Hall Boiler, Bowdoin Warehouse Generator, Harpswell Apartments Generator, and Park Row Generator.
A-76-71-AF-A	November 30, 2020	<ul style="list-style-type: none"> • Removes Chamberlain Hall Hot Water Heater. • Adds Druckenmiller Boiler and H & L Library Generator.
A-76-71-AG-A	March 28, 2022	<ul style="list-style-type: none"> • Adds Bowdoin Mills Hall Generator. • Adjusts specifications of Druckenmiller Boiler.
A-76-71-AH-A	December 14, 2022	<ul style="list-style-type: none"> • Adds Ladd House Generator.

The equipment addressed in this license amendment is located at 240 Main Street, Brunswick, Maine.

Bowdoin has requested an after-the-fact amendment to their license in order to add a new emergency generator. Additionally, the visible emissions standards will be updated to conform to the latest standards as found in 06-096 C.M.R. ch. 101, *Visible Emissions Regulation*.

B. Emission Equipment

The following equipment is addressed in this air emission license amendment:

Stationary Engines

Equipment	Max. Input Capacity (MMBtu/hr)	Rated Output Capacity (kW)	Fuel Type	Firing Rate (scf/hr)	Date of Manuf.	Date of Install.
240 Main Generator	0.9	48	Natural Gas	875	2023	2023

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.

The modification of a minor source is considered a major or minor modification based on whether or not expected emission increases exceed the “Significant Emissions” levels as defined in the Department’s *Definitions Regulation*, 06-096 Code of Maine Rules (C.M.R.) ch. 100. The emission increases are determined by subtracting the current licensed annual emissions preceding the modification from the maximum future licensed annual emissions, as follows:

Pollutant	Current License (tpy)	Future License (tpy)	Net Change (tpy)	Significant Emission Levels
PM	10.6	10.6	0.0	100
PM ₁₀	10.6	10.6	0.0	100
PM _{2.5}	10.6	10.6	0.0	100
SO ₂	0.2	0.2	0.0	100
NO _x	32.3	32.5	0.2	100
CO	12.8	12.8	0.0	100
VOC	1.4	1.4	0.0	50*

* Bowdoin is located in an area of the state included in the Ozone Transport Region. Therefore, the significant emission level for VOC is 50 tpy.

This modification is determined to be a minor modification and has been processed as such.

D. Facility Classification

With the annual fuel limit on the boilers and the operating hours restriction on the generators, the facility is licensed as follows:

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

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.

B. 240 Main Generator

The 240 Main Generator is an emergency generator which consists of an engine and an electrical generator. The emergency generator has an engine rated at 0.9 MMBtu/hr firing natural gas and was manufactured in 2023.

1. BACT Findings

The BACT emission limits for the 240 Main Generator are based on the following:

PM/PM ₁₀ /PM _{2.5}	– 0.05 lb/MMBtu from 06-096 C.M.R. ch. 115, BACT
SO ₂	– 5.88x10 ⁻⁴ lb/MMBtu from AP-42 Table 3.2-2 dated 7/00
NO _x	– 4.08 lb/MMBtu from AP-42 Table 3.2-2 dated 7/00
CO	– 3.17x10 ⁻¹ lb/MMBtu from AP-42 Table 3.2-2 dated 7/00
VOC	– 1.18x10 ⁻¹ lb/MMBtu from AP-42 Table 3.2-2 dated 7/00
Visible Emissions	– 06-096 C.M.R. ch. 115, BACT

The BACT emission limits for the 240 Main Generator are the following:

Unit	PM (lb/hr)	PM₁₀ (lb/hr)	PM_{2.5} (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
240 Main Generator	0.05	0.05	0.05	0.01	3.67	0.29	0.11

Visible emissions from the 240 Main Generator shall not exceed 10% opacity on a six-minute block average basis.

The Department has determined that the BACT visible emission limit is more stringent than the applicable limit in 06-096 C.M.R. ch. 101. Therefore, the visible emission limit for the 240 Main Generator has been streamlined to the more stringent BACT limit, and only this more stringent limit shall be included in the air emission license.

2. Chapter 169

Stationary Generators, 06-096 C.M.R. ch. 169 (Chapter 169), is applicable to the 240 Main Generator. It is an emergency generator powered by an engine with a rated output of less than 1,000 brake horsepower (747 kW). Chapter 169 identifies emission standards for generator engines subject to this chapter and stack height requirements for certain generator engines subject to this chapter.

a. Chapter 169 Emission Standards Requirements

For the 240 Main Generator, Bowdoin shall comply with the emission standards for emergency generators by complying with the applicable standards contained in 40 C.F.R. Part 60, Subpart JJJJ. [06-096 C.M.R. ch. 169, § 4(B)(1)]

b. Chapter 169 Stack Height Requirements

Chapter 169 identifies stack height requirements for any stack used to exhaust a generator engine or combination of generator engines with a combined rated output equal to or greater than 1,000 brake horsepower (747 kW). Individual generator engines with a maximum power capacity of less than 300 kW are not included in the assessment of the combined generator power capacity exhausted through a common stack. [06-096 C.M.R. ch. 169, § 6]

There are no stack height requirements in Chapter 169 applicable to the 240 Main Generator because it exhausts through its own stack and its rated output is less than 1,000 brake horsepower (747 kilowatts). [06-096 C.M.R. ch. 169, § 6]

3. New Source Performance Standards

Standards of Performance for Spark Ignition Internal Combustion Engines, 40 C.F.R. Part 60, Subpart JJJJ is applicable to the 240 Main Generator since the unit was ordered

after June 12, 2006, and manufactured after January 1, 2009. [40 C.F.R. § 60.4230] By meeting the requirements of 40 C.F.R. Part 60, Subpart JJJJ, the unit also meets the requirements found in the *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines*, 40 C.F.R. Part 63, Subpart ZZZZ. [40 C.F.R. § 63.6590(c)]

A summary of the currently applicable federal 40 C.F.R. Part 60, Subpart JJJJ requirements is listed below.

a. Emergency Engine Designation and Operating Criteria

Under 40 C.F.R. Part 60, Subpart JJJJ, a stationary reciprocating internal combustion engine (ICE) is considered an emergency stationary ICE (emergency engine) as long as the engine is operated in accordance with the following criteria. Operation of an engine outside of the criteria specified below may cause the engine to no longer be considered an emergency engine under 40 C.F.R. Part 60, Subpart JJJJ, resulting in the engine being subject to requirements applicable to non-emergency engines.

(1) Emergency Situation Operation (On-Site)

There is no operating time limit on the use of an emergency engine to provide electrical power or mechanical work during an emergency situation. Examples of use of an emergency engine during emergency situations include the following:

- Use of an engine to produce power for critical networks or equipment (including power supplied to portions of a facility) because of failure or interruption of electric power from the local utility (or the normal power source, if the facility runs on its own power production);
- Use of an engine to mitigate an on-site disaster;
- Use of an engine to pump water in the case of fire, flood, natural disaster, or severe weather conditions; and
- Similar instances.

(2) Non-Emergency Situation Operation

An emergency engine may be operated up to a maximum of 100 hours per calendar year for maintenance checks, readiness testing, and other non-emergency situations as described below.

- (i) An emergency engine may be operated for a maximum of 100 hours per calendar year for maintenance checks and readiness testing, provided that the tests are recommended by federal, state, or local government; the manufacturer; the vendor; the regional transmission organization or equivalent balancing authority and transmission operator; or the insurance

company associated with the engine. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency ICE more than 100 hours per calendar year.

- (ii) An emergency engine may be operated for up to 50 hours per calendar year for other non-emergency situations. **However, these operating hours are counted as part of the 100 hours per calendar year operating limit described in paragraph (2) and (2) (i) above.**

The 50 hours per calendar year operating limit for other non-emergency situations cannot be used for peak shaving, demand response, or to generate income for a facility by providing power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.

[40 C.F.R. §§ 60.4243(d) and 60.4248]

b. 40 C.F.R. Part 60, Subpart JJJJ Requirements

(1) Manufacturer Certification Requirement

The engine shall be certified by the manufacturer as meeting the emission standards for new nonroad spark ignition engines found in 40 C.F.R. Part 60, Subpart JJJJ, Table 1. [40 C.F.R. § 60.4233]

(2) Non-Resettable Hour Meter Requirement

A non-resettable hour meter shall be installed and operated on the engine. [40 C.F.R. § 60.4237]

(3) Operation and Maintenance Requirement

The engine shall be operated and maintained according to the manufacturer's written instructions or procedures developed by Bowdoin that are approved by the engine manufacturer. Bowdoin may only change those settings that are permitted by the manufacturer. [40 C.F.R. § 60.4243]

Bowdoin shall have available for review by the Department a copy of the manufacturer's written instructions or procedures developed by Bowdoin that are approved by the engine manufacturer for engine operation and maintenance. [06-096 C.M.R. ch. 115, BPT]

(4) Annual Time Limit for Maintenance and Testing

As an emergency engine, the unit shall be limited to 100 hours/year for maintenance and testing. The emergency engine may operate up to 50 hours per year in non-emergency situations, but those 50 hours are included in the

100 hours total allowed for maintenance and testing. The 50 hours for non-emergency use cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. [40 C.F.R. § 60.4243(d)]

(5) Recordkeeping

Bowdoin shall keep records that include maintenance conducted on the engine and the hours of operation of the engine recorded through the non-resettable hour meter. Documentation shall include the number of hours the unit operated for emergency purposes, the number of hours the unit operated for non-emergency purposes, and the reason the engine was in operation during each time. [40 C.F.R. § 60.4245(b)]

C. Visible Emissions Limit Updates

In 2023, the Department completed rulemaking on revisions to *Visible Emissions Regulation*, 06-096 C.M.R. ch. 101. The revised rule went into effect on January 1, 2024. The updated standards for the following equipment will be incorporated into this amendment.

1. General Process Emissions

Visible emissions from any general process source shall not exceed 20% opacity on a six-minute block average basis.

2. Fugitive Emissions

Bowdoin shall not cause emissions of any fugitive dust during any period of construction, reconstruction, or operation without taking reasonable precautions. Such reasonable precautions shall be included in the facility's continuing program of best management practices for suppression of fugitive particulate matter. See 06-096 C.M.R. ch. 101, § 4(C) for a list of potential reasonable precautions.

Bowdoin shall not cause or allow visible emissions within 20 feet of ground level, measured as any level of opacity and not including water vapor, beyond the legal boundary of the property on which such emissions occur. Compliance with this standard shall be determined pursuant to 40 C.F.R. Part 60, Appendix A, Method 22.

D. Annual Emissions

The table below provides an estimate of facility-wide annual emissions for the purposes of calculating the facility’s annual air license fee and establishing the facility’s potential to emit (PTE). Only licensed equipment is included, i.e., emissions from insignificant activities are excluded. Similarly, unquantifiable fugitive particulate matter emissions are not included except when required by state or federal regulations. Maximum potential emissions were calculated based on the following assumptions:

- A combined total heat input limit of 206,000 MMBtu per year for the Central Heating Plant Units, based on a 12-month rolling total;
- A combined total heat input limit of 50,000 MMBtu per year for the non-Central Heating Plant licensed units, based on a 12-month rolling total;
- Operation of 100 hours per calendar year for each emergency generator; and
- Operation of 500 hours per calendar year for the Smith Union Generator.

This information does not represent a comprehensive list of license restrictions or permissions. That information is provided in the Order section of this license.

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

	PM	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	VOC
Central Heating Plant Boilers	8.24	8.24	8.24	0.16	20.6	8.48	0.56
Non-Central Heating Plant Boilers	2.00	2.00	2.00	0.01	2.75	2.06	0.13
Bowdoin Warehouse	0.02	0.02	0.02	-	0.67	0.14	0.05
Central Heating Plant	0.04	0.04	0.04	-	0.61	0.13	0.05
Chamberlain Hall	0.03	0.03	0.03	-	0.46	0.1	0.04
Druckenmiller Hall	0.02	0.02	0.02	-	0.35	0.08	0.03
Farley Field House	-	-	-	-	0.13	0.01	-
H & L Library	-	-	-	-	0.16	0.01	-
Harpswell Apartments	0.04	0.04	0.04	-	0.59	0.13	0.05
Kanbar Hall	-	-	-	-	0.12	0.01	-
Memorial Hall	0.03	0.03	0.03	-	0.41	0.09	0.03
Moulton Union 1	-	-	-	-	0.36	0.03	0.01
Moulton Union 2 (outside)	0.04	0.04	0.04	-	0.59	0.13	0.05
Park Row	0.03	0.03	0.03	-	0.36	0.08	0.03
Rhodes Hall	-	-	-	-	0.29	0.02	0.01
Roux Hall Generator	-	-	-	-	0.06	0.11	0.03

	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
Smith Union Generator	0.04	0.04	0.04	-	0.25	0.51	0.18
Stowe Hall	-	-	-	-	0.19	0.02	0.01
Thorne Dining	0.02	0.02	0.02	-	0.9	0.19	0.07
Walker Art Museum	-	-	-	-	0.36	0.03	0.01
Watson Ice Arena	0.02	0.02	0.02	-	0.35	0.08	0.03
Wellness Center	-	-	-	-	0.16	0.01	-
Bowdoin Mills Hall	0.03	0.03	0.03	-	0.88	0.23	0.02
Ladd House Generator	0.02	0.02	0.02	-	0.67	0.14	0.05
240 Main Generator	-	-	-	-	0.18	0.01	0.01
Total TPY	10.6	10.6	10.6	0.2	32.5	12.8	1.4

Pollutant	Tons/year
Single HAP	9.9
Total HAP	24.9

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:

Pollutant	Tons/Year
PM ₁₀	25
PM _{2.5}	15
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 amendment.

This determination is based on information provided by the applicant regarding the expected construction and operation of the proposed and licensed emission units. If the Department determines that any parameter (e.g., stack size, configuration, flow rate, emission rates, nearby structures, etc.) deviates from what was included in the application, the Department may require Bowdoin to submit additional information and may require an ambient air quality impact analysis at that time.

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-76-71-AI-A subject to the conditions found in Air Emission License A-76-71-Z-R/A; in amendments A-76-71-AA-A, A-76-71-AB-M, A-76-71-AC-A, A-76-71-AE-A, A-76-71-AF-A, A-76-71-AG-A, and A-76-71-AH-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

The following shall replace Condition (19)(B) of Air Emission License A-76-71-AH-A:

(19) Emergency Generators

B. Emissions shall not exceed the following [06-096 C.M.R. ch. 115, BPT/BACT]:

Unit	PM (lb/hr)	PM₁₀ (lb/hr)	PM_{2.5} (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Bowdoin Warehouse Gen. (3.04 MMBtu/hr, distillate fuel)	0.36	0.36	0.36	0.005	13.41	2.89	1.09
Bowdoin Mills Hall Gen. (5.50 MMBtu/hr, distillate fuel)	0.66	0.66	0.66	0.01	17.50	4.65	0.49
Central Heating Plant Gen. (2.70 MMBtu/hr, distillate fuel)	0.83	0.83	0.83	0.01	11.82	2.55	0.96
Chamberlain Hall Gen. (2.10 MMBtu/hr, distillate fuel)	0.64	0.64	0.64	0.01	9.06	1.95	0.74
Druckenmiller Hall Gen. (1.50 MMBtu/hr, distillate fuel)	0.48	0.48	0.48	0.01	6.83	1.47	0.56
Farley Field House Gen. (0.60 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	2.53	0.20	0.07

Unit	PM (lb/hr)	PM₁₀ (lb/hr)	PM_{2.5} (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Harpswell Apartments Gen. (2.69 MMBtu/hr, distillate fuel)	0.83	0.83	0.83	--	11.86	2.56	0.97
H & L Library Gen. (0.80 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	3.28	0.26	0.09
Kanbar Hall Gen. (0.60 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	2.42	0.19	0.07
Ladd House Generator (3.1 MMBtu/hr distillate fuel)	0.36	0.36	0.36	0.01	13.41	2.89	1.06
Memorial Hall Gen. (1.80 MMBtu/hr, distillate fuel)	0.56	0.56	0.56	0.01	7.98	1.72	0.65
Moulton Union Gen. 1 (1.80 MMBtu/hr, natural gas)	0.02	0.02	0.02	--	7.31	0.57	0.21
Moulton Union Gen. 2 (outside) (2.60 MMBtu/hr, distillate fuel)	0.81	0.81	0.81	0.01	11.54	2.49	0.94
Park Row Gen. (1.63 MMBtu/hr, distillate fuel)	0.51	0.51	0.51	--	7.19	1.55	0.59
Rhodes Hall Gen. (1.40 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	5.71	0.44	0.17
Roux Hall Gen. (1.80 MMBtu/hr, natural gas)	0.09	0.09	0.09	--	1.11	2.22	0.55
Smith Union Generator (3.50 MMBtu/hr, natural gas)	0.17	0.17	0.17	--	1.01	2.03	0.71
Stowe Hall Gen. (0.90 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	3.86	0.30	0.11
Thorne Dining Gen. (4.00 MMBtu/hr, distillate fuel)	0.48	0.48	0.48	0.01	17.58	3.79	1.44
Walker Art Museum Gen. (1.80 MMBtu/hr, natural gas)	0.02	0.02	0.02	--	7.31	0.57	0.21
Watson Ice Arena Gen. (1.60 MMBtu/hr, distillate fuel)	0.48	0.48	0.48	0.01	6.89	1.48	0.56
Wellness Center Gen. (0.80 MMBtu/hr, natural gas)	0.01	0.01	0.01	--	3.32	0.26	0.10
240 Main Generator (0.9 MMBtu/hr, natural gas)	0.05	0.05	0.05	0.01	3.67	0.29	0.11

The following shall replace Condition (19)(F) of Air Emission License A-76-71-AF-A:

(19) Emergency Generators

- F. The Farley Field House, H & L Library, Rhodes Hall, Wellness Center Generator, and 240 Main Generator shall each meet the applicable requirements of 40 C.F.R. Part 60, Subpart JJJJ, including the following:
[incorporated under 06-096 C.M.R. ch. 115, BPT and BACT]

1. **Manufacturer Certification**

The engines shall be certified by the manufacturer as meeting the emission standards for new nonroad spark ignition engines found in 40 C.F.R. Part 60, Subpart JJJJ, Table 1.

2. **Non-Resetable Hour Meter**

A non-resettable hour meter shall be installed and operated on each engine. [40 C.F.R. § 60.4237 and 06-096 C.M.R. ch. 115, BPT and BACT]

3. **Annual Time Limit for Maintenance and Testing**

a. As emergency engines, the units shall each be limited to 100 hours/year for maintenance checks and readiness testing. Up to 50 hours/year of the 100 hours/year may be used in non-emergency situations (this does not include peak shaving, demand response, or to generate income for a facility by providing power to an electric grid or otherwise supply power as part of a financial arrangement with another entity). The limits are based on a calendar year. Compliance shall be demonstrated by records (electronic or written log) of all engine operating hours. [40 C.F.R. § 60.4243(d) and 06-096 C.M.R. ch. 115, BPT and BACT]

b. Bowdoin shall keep records that include maintenance conducted on the engines and the hours of operation of each engine recorded through the non-resettable hour meter. Documentation shall include the number of hours each unit operated for emergency purposes, the number of hours each unit operated for non-emergency purposes, and the reason each engine was in operation during each time.

4. **Operation and Maintenance**

Each engine shall be operated and maintained according to the manufacturer's written instructions or procedures developed by Bowdoin that are approved by the engine manufacturer. Bowdoin may only change those settings that are permitted by the manufacturer. [40 C.F.R. § 60.4243]

Bowdoin shall have available for review by the Department a copy of the manufacturer's emission-related written instructions for engine operation and maintenance. [06-096 C.M.R. ch. 115, BPT and BACT]

The following shall replace Condition (20) of Air Emission License A-76-71-Z-R/A:

(20) Fugitive Emissions

- A. Bowdoin shall not cause emissions of any fugitive dust during any period of construction, reconstruction, or operation without taking reasonable precautions. Such reasonable precautions shall be included in the facility's continuing program of best management practices for suppression of fugitive particulate matter. See 06-096 C.M.R. ch. 101, § 4(C) for a list of potential reasonable precautions.
- B. Bowdoin shall not cause or allow visible emissions within 20 feet of ground level, measured as any level of opacity and not including water vapor, beyond the legal boundary of the property on which such emissions occur. Compliance with this standard shall be determined pursuant to 40 C.F.R. Part 60, Appendix A, Method 22.
[06-096 C.M.R. ch. 101, § 4(C)]

The numbering of Condition (20) of Air Emission License A-76-71-AH-A will be corrected to Condition (24):

- (24) If the Department determines that any parameter value pertaining to construction and operation of the emissions units, including but not limited to stack size, configuration, flow rate, emission rates, nearby structures, etc., deviates from what was submitted in the application or ambient air quality impact analysis for this air emission license, Bowdoin may be required to submit additional information. Upon written request from the Department, Bowdoin shall provide information necessary to demonstrate AAQS will not be exceeded, potentially including submission of an ambient air quality impact analysis or an application to amend this air emission license to resolve any deficiencies and ensure compliance with AAQS. Submission of this information is due within 60 days of the Department's written request unless otherwise stated in the Department's letter.
[06-096 C.M.R. ch. 115, § 2(O)]

The following is a new Condition of Air Emission License A-76-71-Z-R/A:

(25) **General Process Sources**

Visible emissions from any general process source shall not exceed 20% opacity on a six-minute block average basis. [06-096 C.M.R. ch. 101, § 4(B)(4)]

DONE AND DATED IN AUGUSTA, MAINE THIS 22nd DAY OF JULY, 2024.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:  for
MELANIE LOYZIM, COMMISSIONER

The term of this license amendment shall be ten (10) years from the issuance of Air Emission License A-76-71-Z-R/A (issued 8/14/2015).

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

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 4/1/24

Date of application acceptance: 4/2/24

Date filed with the Board of Environmental Protection:

This Order prepared by Chris Ham, Bureau of Air Quality.

