

STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017

DEPARTMENT ORDER

MSAD #4/RSU 80 Piscataquis County Guilford, Maine A-68-71-J-R/A Departmental
Findings of Fact and Order
Air Emission License
Renewal and
After-the-Fact Amendment

FINDINGS OF FACT

After review of the air emission license amendment and renewal 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

MSAD #4 or RSU #80 (Piscataquis Community Schools) has applied to renew their Air Emission License for the operation of emission sources associated with their educational facility. Piscataquis Community Schools consists of the Piscataquis Community Secondary School (PCSS) consisting of Grades 7-12 and the Piscataquis Community Elementary School (PCES) consisting of Grades Pre-K through 6th. Piscataquis Community Schools has also requested an amendment to their license in order to add two emergency generators to the license after-the-fact.

The equipment addressed in this license is located at 9-25 Campus Drive, Guilford, Maine.

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B. Emission Equipment

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

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Boilers

	Max. Capacity	Location	Maximum		Date of	Date of	
Equipment	(MMBtu/hr)		Firing Rate	Fuel Type	Manuf.	Install.	Stack #
PCSS Boiler #1	4.4	PCSS	31.5 gal/hr	Distillate fuel	2006	2006	1
PCES Boiler #2*	4.4	PCES	31.5 gal/hr	Distillate fuel	2006	2006	2
PCES Boiler #3**	4.9	1	35.0 gal/hr	Distillate fuel	1994	1994	
PCES Boiler #4**	4.9	1	35.0 gal/hr	Distillate fuel	1994	1994	
PCSS Boiler #5***	2.0	PCSS	247 lb/hr	Wood pellets, 10% moisture	2013	2014	1
PCES Boiler #6***	1.6	PCES	198 lb/hr	Wood pellets, 10% moisture	2013	2014	2

^{*} Previously Named PCSS Boiler #2; moved to PCES building.

Stationary Engines (New to License)

		Max. Input Capacity	Rated Output Capacity		Firing Rate	Date of	Date of
Equipment	Location	(MMBtu/hr)	(kW)	Fuel Type	(gal/hr)	Manuf.	Install.
PCSS Generator	PCSS	1.4	128	Distillate fuel	9.9	2/22/2021	7/2022
PCES Generator	PCES	2.1	200	Distillate fuel	15.3	2/22/2021	7/2022

Piscataquis Community Schools may operate small stationary engines smaller than 0.5 MMBtu/hr. These engines are considered insignificant activities and are not required to be included in this license. However, they are still subject to applicable State and Federal regulations. More information regarding requirements for small stationary engines is available on the Department's website at the link below.

http://www.maine.gov/dep/air/publications/docs/SmallRICEGuidance.pdf

Additionally, Piscataquis Community Schools may operate <u>portable</u> engines used for maintenance or emergency-only purposes. These engines are considered insignificant activities and are not required to be included in this license. However, they may still be subject to applicable State and Federal regulations.

^{**} In the previous license renewal and amendment, A-68-71-I-R/A (August 14, 2013), Piscataquis Community Schools proposed to remove Boilers #3 and #4 and replace them with Boilers #5 and #6. The boilers were removed and replaced in 2014 and will be removed from this license.

^{***} Added in previous renewal and amendment, A-68-71-I-R/A (August 14, 2013).

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C. Definitions

<u>Biomass</u> means any biomass-based solid fuel that is not a solid waste. This includes, but is not limited to, wood residue and wood products (*e.g.*, trees, tree stumps, tree limbs, bark, lumber, sawdust, sander dust, chips, scraps, slabs, millings, and shavings). This definition also includes wood chips and processed pellets made from wood or other forest residues. Inclusion in this definition does not constitute a determination that the material is not considered a solid waste. Piscataquis Community Schools should consult with the Department before adding any new biomass type to its fuel mix.

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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.

<u>Portable or Non-Road Engine</u> means an internal combustion engine which is portable or transportable, meaning designed to be and capable of being carried or moved from one location to another. Indicia of transportability include, but are not limited to, wheels, skids, carrying handles, dolly, trailer, or platform. This definition does NOT include engines which remain or will remain at a location (excluding storage locations) for more than 12 consecutive months or a shorter period of time for an engine located at a seasonal source. <u>A location is any single site</u> at a building, structure, facility, or installation. Any engine that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period.

An engine is <u>not</u> a non-road (portable) engine if it remains or will remain at a location for more than 12 consecutive months or for a shorter period of time if sited at a seasonal source. A seasonal source is a source that remains in a single location for two years or more and which operates for fewer than 12 months in a calendar year. If an engine operates at a seasonal source for one entire season, the engine does not meet the criteria of a non-road (portable) engine and is subject to applicable stationary engine requirements.

<u>Records</u> or <u>Logs</u> mean either hardcopy or electronic records.

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D. 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.

Piscataquis Community Schools has applied to renew currently licensed emission units as well as amend their license as addressed in Section I(A) above.

The installation of new emissions units is a modification of an existing source. 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	4.63	6.6	2.0	100
PM_{10}	4.63	6.6	2.0	100
PM _{2.5}		6.6	6.6	100
SO_2	4.65	0.4	-4.3	100
NO_x	9.28	14.1	4.8	100
CO	10.2	11.1	0.9	100
VOC	0.32	0.2	-0.1	100

Therefore, this license is considered to be both a renewal and a minor modification and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 Code of Maine Rules C.M.R. ch. 115.

E. Facility Classification

The facility is licensed as follows:

- As a natural minor source of criteria pollutants, because no license restrictions are necessary to 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.

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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.

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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. Boilers

Piscataquis Community Schools operates four boilers for heat, designated PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6. PCSS Boiler #1 and PCES Boiler #2 are rated at 4.4 MMBtu/hr each and fire distillate fuel. Both boilers were manufactured and installed in 2006. PCES Boiler #2 was moved from PCSS to PCES in 2014. PCSS Boiler #5 and PCES Boiler #6 are rated at 2.0 MMBtu/hr and 1.6 MMBtu/hr, respectively, and fire wood pellets. Both boilers were manufactured in 2013 and installed in 2014. PCSS Boilers #1 and #5 exhaust through common Stack #1. PCES Boilers #2 and #6 exhaust through common Stack #2.

PCSS Boiler #1 and PCES Boiler #2 are licensed to fire distillate fuel. With limited exceptions, no person shall import, distribute, or offer for sale any distillate fuel with a sulfur content greater than 0.0015% by weight (15 ppm) pursuant to 38 M.R.S. § 603-A(2)(A)(3). Therefore, the distillate fuel purchased or otherwise obtained for use in Boilers #1 and #2 shall not exceed 0.0015% by weight (15 ppm).

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1. BPT Findings

The BPT emission limits for PCSS Boiler #1 and PCES Boiler #2 were based on the following:

Distillate Fuel

PM/PM₁₀/PM_{2.5} - 0.08 lb/MMBtu based on 06-096 C.M.R. ch. 115, BPT

SO₂ – based on firing distillate fuel with a maximum sulfur content of

0.0015% by weight

NO_x - 20 lb/1,000 gal based on AP-42 Table 1.3-1 dated 5/10 CO - 5 lb/1,000 gal based on AP-42 Table 1.3-1 dated 5/10 VOC - 0.34 lb/1,000 gal based on AP-42 Table 1.3-3 dated 5/10

Visible – 06-096 C.M.R. ch. 115, BPT

Emissions

The BPT emission limits for PCSS Boiler #5 and PCES Boiler #6 were based on the following:

Wood Pellets (10% Moisture)

PM/PM₁₀/PM_{2.5} - 0.23 lb/MMBtu based on A-68-71-I-R/A dated 8/14/2013 SO₂ - 0.025 lb/MMBtu based on AP-42 Table 1.6-2 dated 4/22 NO_x - 0.49 lb/MMBtu based on AP-42 Table 1.6-2 dated 4/22 CO - 0.6 lb/MMBtu based on AP-42 Table 1.6-2 dated 4/22 VOC - 0.017 lb/MMBtu based on AP-42 Table 1.6-2 dated 4/22

Visible – 06-096 C.M.R. ch. 115, BPT

Emissions

The BPT emission limits for PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6 are the following:

Unit	Pollutant	lb/MMBtu
PCSS Boiler #1	PM	0.08
PCES Boiler #2	PM	0.08

	PM	PM ₁₀	PM _{2.5}	SO ₂	NOx	СО	VOC
Unit	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
PCSS Boiler #1	0.35	0.35	0.35	0.01	0.63	0.16	0.01
PCES Boiler #2	0.35	0.35	0.35	0.01	0.63	0.16	0.01
PCSS Boiler #5	0.46	0.46	0.46	0.05	0.98	1.20	0.03
PCES Boiler #6	0.46	0.46	0.46	0.05	0.98	1.20	0.03

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2. Visible Emissions

a. BPT Limits

When only distillate fuel is being fired, visible emissions from Stacks #1 and #2 shall not exceed 10% opacity for each stack on a six-minute block average.

Visible emissions from Stacks #1 and #2, when biomass is being fired, shall not exceed 20% opacity for each stack on a six-minute block average basis.

b. 06-096 C.M.R. Ch. 101 Limits

When only distillate fuel is being fired, visible emissions from Stacks #1 and #2 shall not exceed 20% opacity for each stack on a six-minute block average basis. [06-096 C.M.R. ch. 101, § 4(A)(2) and (D)(1)]

Visible emissions from Stacks #1 and #2, when biomass is being fired, shall not exceed 30% opacity for each stack on a six-minute block average basis, except for periods of startup, shutdown, or malfunction during which time Piscataquis Community Schools shall either meet the normal operating visible emissions standard or the following alternative visible emissions standard.

During periods of startup, shutdown, or malfunction, visible emissions shall not exceed 40% opacity on a six-minute block average basis. This alternative visible emissions standard shall not be utilized for more than two hours (20 consecutive six-minute block averages) per event. If this alternative visible emissions standard is utilized, Piscataquis Community Schools shall keep records of the date, time, and duration of all startup, shutdown, and malfunction events and provide them to the Department upon request.

[06-096 C.M.R. ch. 101, § 4(A)(5)(a) and (D)(1)]

c. Visible Emissions Streamlining

The Department has determined that the BPT visible emission limit is more stringent than the applicable limit in 06-096 C.M.R. ch. 101. Therefore, the visible emission limit from Stacks #1 and #2 has been streamlined to the more stringent BPT limit, and only this more stringent limit shall be included in the Order of this air emission license.

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3. New Source Performance Standards (NSPS): 40 C.F.R. Part 60, Subpart Dc

Due to their size, PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6 are not subject to *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units* 40 C.F.R. Part 60, Subpart Dc for units greater than 10 MMBtu/hr manufactured after June 9, 1989. [40 C.F.R. § 60.40c]

4. National Emission Standards for Hazardous Air Pollutants (NESHAP): 40 C.F.R. Part 63, Subpart JJJJJJ

PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6 are subject to the *National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources*, 40 C.F.R. Part 63, Subpart JJJJJJ. PCSS Boiler #1 and PCES Boiler #2 are considered existing oil boilers, and PCSS Boiler #5 and PCES Boiler #6 new biomass boilers, all rated less than 10 MMBtu/hr. [40 C.F.R. §§ 63.11193 and 63.11195]

Applicable federal 40 C.F.R. Part 63, Subpart JJJJJJ requirements include the following. Additional rule information can be found on the following website: https://www.epa.gov/stationary-sources-air-pollution/compliance-industrial-commercial-and-institutional-area-source.

- a. Compliance Dates, Notifications, and Work Practice Requirements
 - (1) Boiler Tune-Up Program
 - (i) A boiler tune-up program shall be implemented. [40 C.F.R. § 63.11223]
 - (ii) Tune-ups shall be conducted every five years for PCSS Boiler #1 and PCES Boiler #2 and every two years for PCSS Boiler #5 and PCES Boiler #6 as specified by the rule and based on the size, age, and operations of each boiler. [40 C.F.R. § 63.11223(a) and Table 2]
 - (iii)The boiler tune-up program, conducted to demonstrate continuous compliance, shall be performed as specified below:
 - 1. As applicable, inspect the burner, and clean or replace any component of the burner as necessary. Delay of the burner inspection until the next scheduled shutdown is permitted, not to exceed 36 months from the previous inspection for PCSS Boiler #5 and PCES Boiler #6. Delay of the burner inspection until the next scheduled shutdown is permitted for up to 72 months from the previous inspection for PCSS Boiler #1 and PCES Boiler #2. [40 C.F.R. § 63.11223(b)(1)]

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- 2. Inspect the flame pattern, <u>as applicable</u>, and adjust the burner as necessary to optimize the flame pattern, consistent with the manufacturer's specifications. [40 C.F.R. § 63.11223(b)(2)]
- 3. Inspect the system controlling the air-to-fuel ratio, <u>as applicable</u>, and ensure it is correctly calibrated and functioning properly. Delay of the inspection until the next scheduled shutdown is permitted, not to exceed 36 months from the previous inspection for PCSS Boiler #5 and PCES Boiler #6. Delay of the inspection until the next scheduled shutdown is permitted for up to 72 months from the previous inspection for PCSS Boiler #1 and PCES Boiler #2. [40 C.F.R. § 63.11223(b)(3)]
- 4. Optimize total emissions of CO, consistent with manufacturer's specifications. [40 C.F.R. § 63.11223(b)(4)]
- 5. Measure the concentration in the effluent stream of CO in parts per million by volume (ppmv), and oxygen in volume percent, before and after adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 C.F.R. § 63.11223(b)(5)]
- 6. If a unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of start-up.

 [40 C.F.R. § 63.11223(b)(7)]
- (iv) <u>Tune-Up Report</u>: A tune-up report shall be maintained onsite and submitted to the Department and/or EPA upon request. The report shall contain the following information:
 - 1. The concentration of CO in the effluent stream (ppmv) and oxygen (volume percent) measured at high fire or typical operating load both **before** and **after** the boiler tune-up;
 - 2. A description of any corrective actions taken as part of the tune-up of the boiler; and
 - 3. The types and amounts of fuels used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 C.F.R. § 63.11223(b)(6)]

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(2) Compliance Report

A compliance report shall be prepared by March 1st which covers the previous two calendar years. The report shall be maintained by the source and submitted to the Department and/or to the EPA upon request. The report must include the items contained in §§ 63.11225(b)(1) and (2), including the following: [40 C.F.R. § 63.11225(b)]

- (i) Company name and address;
- (ii) A statement of whether the source has complied with all the relevant requirements of this Subpart;
- (iii) A statement certifying truth, accuracy, and completeness of the notification and signed by a responsible official and containing the official's name, title, phone number, email address, and signature;
- (iv) The following certifications, as applicable:
 - 1. "This facility complies with the requirements in 40 C.F.R. § 63.11223 to conduct tune-ups of each boiler in accordance with the frequency specified in this Subpart."
 - 2. "No secondary materials that are solid waste were combusted in any affected unit."
 - 3. "This facility complies with the requirement in §§ 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

b. Recordkeeping

- (1) Records shall be maintained consistent with the requirements of 40 C.F.R. Part 63, Subpart JJJJJJ including the following [40 C.F.R. § 63.11225(c)]:
 - (i) Copies of notifications and reports with supporting compliance documentation;
 - (ii) Identification of each boiler, the date of tune-up, procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned;
 - (iii)Records of the occurrence and duration of each malfunction of each applicable boiler; and
 - (iv)Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the malfunctioning boiler.
- (2) Records shall be in a form suitable and readily available for expeditious review. Each record must be kept for 5 years following the date of each recorded action. Each record must be kept on-site or be accessible from a central location by computer or other means that instantly provides access at the site for at least

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2 years after the date of each recorded action. The records may be maintained off-site for the remaining 3 years. [40 C.F.R. § 63.11225(d)] Note: Standard Condition (8) of this license requires all records be retained for six years; therefore, the five-year record retention requirement of Subpart JJJJJJ shall be streamlined to the more stringent six-year requirement.

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EPA requires submission of Notification of Compliance Status reports for tuneups and energy assessments through their electronic reporting system. [40 C.F.R. § 63.11225(a)(4)(vi)]

C. Emergency Generators

Piscataquis Community Schools operates two emergency generators, designated PCSS Generator and PCES Generator. The emergency generators are generator sets with each gen set consisting of an engine and an electrical generator. PCSS Generator and PCES Generator have engines rated at 1.4 MMBtu/hr and 2.1 MMBtu/hr, respectively. Both engines fire distillate fuel. PCSS Generator and PCES Generator were manufactured in 2021 and installed in 2022.

1. BACT Findings

The BACT emission limits for the PCSS Generator and PCES Generator are based on the following:

PM/PM₁₀/PM_{2.5} – 0.12 lb/MMBtu from 06-096 C.M.R. ch. 115, BACT

SO₂ – Combustion of distillate fuel with a maximum sulfur content

not to exceed 15 ppm (0.0015% sulfur by weight)

NO_x – 4.41 lb/MMBtu from AP-42 Table 3.3-1 dated 10/96 CO – 0.95 lb/MMBtu from AP-42 Table 3.3-1 dated 10/96 VOC – 0.36 lb/MMBtu from AP-42 Table 3.3-1 dated 10/96

Visible – 06-096 C.M.R. ch. 101

Emissions

The BACT emission limits for PCSS Generator and PCES Generator are the following:

Unit	PM (lb/hr)	PM ₁₀ (lb/hr)	PM _{2.5} (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
PCSS Generator	0.16	0.16	0.16	0.002	5.99	1.29	0.49
PCES Generator	0.25	0.25	0.25	0.003	9.23	1.99	0.75

Visible emissions from PCSS Generator and PCES Generator shall each not exceed 20% opacity on a six-minute block average basis.

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BACT for the emergency generators includes recordkeeping of all maintenance conducted on each engine.

2. Chapter 169

PCSS Generator and PCES Generator were installed prior to the effective date of *Stationary Generators*, 06-096 C.M.R. ch. 169 and are therefore exempt from this rule pursuant to section 1.

3. New Source Performance Standards

Standards of Performance for Stationary Compression Ignition Internal Combustion Engines, 40 C.F.R. Part 60, Subpart IIII is applicable to the emergency engines listed above since the units were ordered after July 11, 2005, and manufactured after April 1, 2006. [40 C.F.R. § 60.4200] By meeting the requirements of 40 C.F.R. Part 60, Subpart IIII, the units also meet 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 IIII requirements is listed below.

a. Emergency Engine Designation and Operating Criteria

Under 40 C.F.R. Part 60, Subpart IIII, 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 IIII, 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;

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- 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. Piscataquis Community Schools 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. §§ 60.4211(f) and 60.4219]

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

(1) Manufacturer Certification Requirement

The engines shall be certified by the manufacturer as meeting the emission standards for new nonroad compression ignition engines found in 40 C.F.R. § 60.4202. [40 C.F.R. § 60.4205(b)] The EPA certifications supplied by the manufacturers are in the facility's air license file.

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- (2) Ultra-Low Sulfur Fuel Requirement
 The fuel fired in the engines shall not exceed 15 ppm sulfur (0.0015% sulfur).
 [40 C.F.R. § 60.4207(b)]
- (3) Non-Resettable Hour Meter Requirement
 A non-resettable hour meter shall be installed and operated on each engine.
 [40 C.F.R. § 60.4209(a)]
- (4) Operation and Maintenance Requirements

 The engines shall be operated and maintained according to the manufacturer's emission-related written instructions. Piscataquis Community Schools may only change those emission-related settings that are permitted by the manufacturer. [40 C.F.R. § 60.4211(a)]

Piscataquis Community Schools 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]

- (5) Annual Time Limit for Maintenance and Testing
 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). [40 C.F.R. § 60.4211(f)]
- (6) Initial Notification Requirement No initial notification is required under 40 C.F.R. Part 60, Subpart IIII for emergency engines. [40 C.F.R. § 60.4214(b)]
- (7) Recordkeeping

Piscataquis Community Schools shall keep records that include 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. [40 C.F.R. § 60.4214(b)]

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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 operating PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6 for 8,760 hr/yr each and operating PCSS Generator and PCES Generator for 100 hrs/yr each.

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	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
PCSS Boiler #1	1.5	1.5	1.5		2.8	0.7	
PCES Boiler #2	1.5	1.5	1.5		2.8	0.7	
PCSS Boiler #5	2.0	2.0	2.0	0.2	4.3	5.3	0.1
PCES Boiler #6	1.6	1.6	1.6	0.2	3.4	4.2	0.1
PCSS Generator					0.3	0.1	
PCES Generator					0.5	0.1	
Total TPY	6.6	6.6	6.6	0.4	14.1	11.1	0.2

Pollutant	Tons/year
Single HAP	9.9
Total HAP	24.9

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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 renewal and amendment.

This determination is based on information provided by the applicant regarding 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 Piscataquis Community Schools 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 Renewal and Amendment A-68-71-J-R/A subject to the following conditions.

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

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STANDARD CONDITIONS

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 M.R.S. § 347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to beginning actual construction of a modification, unless specifically provided for in Chapter 115. [06-096 C.M.R. ch. 115]
- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [06-096 C.M.R. ch. 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [06-096 C.M.R. ch. 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S. § 353-A. [06-096 C.M.R. ch. 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 C.M.R. ch. 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [06-096 C.M.R. ch. 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [06-096 C.M.R. ch. 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license.

 [06-096 C.M.R. ch. 115]



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- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license.

 [06-096 C.M.R. ch. 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 C.F.R. Part 60 or other method approved or required by the Department, the licensee shall:
 - A. Perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - 1. Within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - 2. Pursuant to any other requirement of this license to perform stack testing.
 - B. Install or make provisions to install test ports that meet the criteria of 40 C.F.R. Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - C. Submit a written report to the Department within thirty (30) days from date of test completion.

[06-096 C.M.R. ch. 115]

- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
 - A. Within thirty (30) days following receipt of the written test report by the Department, or another alternative timeframe approved by the Department, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 C.F.R. Part 60 or other method approved or required by the Department; and
 - B. The days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and



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C. The licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

[06-096 C.M.R. ch. 115]

- Notwithstanding any other provisions in the State Implementation Plan approved by the (13)EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or license requirement. [06-096 C.M.R. ch. 115]
- (14)The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions unit itself that would affect emissions and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [06-096 C.M.R. ch. 115]
- (15)Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [06-096 C.M.R. ch. 115]
- (16)The licensee shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (38 M.R.S. § 605). [06-096 C.M.R. ch. 115]

SPECIFIC CONDITIONS

Boilers (PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6) (17)

A. Fuel

- 1. PCSS Boiler #1 and PCES Boiler #2 are licensed to fire distillate fuel. PCSS Boiler #5 and PCES Boiler #6 are licensed to fire wood pellets. [06-096 C.M.R. ch. 115, BPT]
- 2. The facility shall not purchase or otherwise obtain distillate fuel with a maximum sulfur content that exceeds 0.0015% by weight (15 ppm). [06-096 C.M.R. ch. 115, BPT]
- 3. Fuel sulfur content compliance shall be demonstrated by fuel delivery receipts from the supplier, a statement from the supplier that the fuel delivered meets Maine's

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fuel sulfur content standards, certificate of analysis, or testing of fuel in the tank on-site. [06-096 C.M.R. ch. 115, BPT]

B. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
PCSS Boiler #1	PM	0.08	06-096 C.M.R. ch. 115, BPT
PCES Boiler #2	PM	0.08	06-096 C.M.R. ch. 115, BPT

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

	PM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	VOC
Emission Unit	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
PCSS Boiler #1	0.35	0.35	0.35	0.01	0.63	0.16	0.01
PCES Boiler #2	0.35	0.35	0.35	0.01	0.63	0.16	0.01
PCSS Boiler #5	0.46	0.46	0.46	0.05	0.98	1.20	0.03
PCES Boiler #6	0.46	0.46	0.46	0.05	0.98	1.20	0.03

D. Visible Emissions

- 1. When only distillate fuel is being fired, visible emissions from Stacks #1 and #2 shall not exceed 10% opacity for each stack on a six-minute block average.
- 2. Visible emissions from Stacks #1 and #2, when biomass is being fired, shall not exceed 20% opacity for each stack on a six-minute block average basis. [06-096 C.M.R. ch. 115, BPT]
- E. Piscataquis Community Schools shall comply with all requirements of 40 C.F.R. Part 63, Subpart JJJJJJ applicable to PCSS Boiler #1, PCES Boiler #2, PCSS Boiler #5, and PCES Boiler #6 including, but not limited to, the following: [incorporated under 06-096 C.M.R. ch. 115, BPT]
 - 1. The facility shall implement a boiler tune-up program. [40 C.F.R. § 63.11223]
 - a. Each tune-up shall be conducted every five years for PCSS Boiler #1 and PCES Boiler #2 and every two years for PCSS Boiler #5 and PCES Boiler #6 as specified by the rule and based on the size, age, and operations of the boiler. [40 C.F.R. § 63.11223(a) and Table 2]
 - b. The boiler tune-up program, conducted to demonstrate continuous compliance, shall be performed as specified below:
 - (1) As applicable, inspect the burner, and clean or replace any component of the burner as necessary. Delay of the burner inspection until the next scheduled shutdown is permitted, not to exceed 36 months from the previous inspection for PCSS Boiler #5 and PCES Boiler #6. Delay of the burner inspection until the next scheduled shutdown is permitted for up to 72 months from the previous inspection for PCSS Boiler #1 and PCES Boiler #2. [40 C.F.R. § 63.11223(b)(1)]

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- (2) Inspect the flame pattern, <u>as applicable</u>, and adjust the burner as necessary to optimize the flame pattern, consistent with the manufacturer's specifications. [40 C.F..R § 63.11223(b)(2)]
- (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure it is correctly calibrated and functioning properly. Delay of the inspection until the next scheduled shutdown is permitted, not to exceed 36 months from the previous inspection for PCSS Boiler #5 and PCES Boiler #6. Delay of the inspection until the next scheduled shutdown is permitted for up to 72 months from the previous inspection for PCSS Boiler #1 and PCES Boiler #2. [40 C.F.R. § 63.11223(b)(3)]
- (4) Optimize total emissions of CO, consistent with manufacturer's specifications. [40 C.F.R. § 63.11223(b)(4)]
- (5) Measure the concentration in the effluent stream of CO in parts per million by volume (ppmv), and oxygen in volume percent, before and after adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer. [40 C.F.R. § 63.11223(b)(5)]
- (6) If a unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of start-up. [40 C.F.R. § 63.11223(b)(7)]
- c. <u>Tune-Up Report</u>: A tune-up report shall be maintained onsite and submitted to the Department and EPA upon request. The report shall contain the following information:
 - (1) The concentration of CO in the effluent stream (ppmv) and oxygen (volume percent) measured at high fire or typical operating load both **before** and **after** the boiler tune-up;
 - (2) A description of any corrective actions taken as part of the tune-up of the boiler; and
 - (3) The types and amounts of fuels used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit. [40 C.F.R. § 63.11223(b)(6)]

2. Compliance Report

A compliance report shall be prepared by March 1st biennially which covers the previous two calendar years. The report shall be maintained by the source and submitted to the Department and/or to the EPA upon request. The report must include the items contained in §§ 63.11225(b)(1) and (2), including the following: [40 C.F.R. § 63.11225(b)]

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- a. Company name and address;
- b. A statement of whether the source has complied with all the relevant requirements of this Subpart;
- c. A statement certifying truth, accuracy, and completeness of the notification and signed by a responsible official and containing the official's name, title, phone number, email address, and signature;
- d. The following certifications, as applicable:
 - (1) "This facility complies with the requirements in 40 C.F.R. § 63.11223 to conduct tune-ups of each boiler in accordance with the frequency specified in this Subpart."
 - (2) "No secondary materials that are solid waste were combusted in any affected unit."
 - (3) "This facility complies with the requirement in §§ 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

3. Recordkeeping

- a. Records shall be maintained consistent with the requirements of 40 C.F.R. Part 63, Subpart JJJJJJ including the following [40 C.F.R. § 63.11225(c)]:
 - (1) Copies of notifications and reports with supporting compliance documentation;
 - (2) Identification of each boiler, the date of tune-up, procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned;
 - (3) Records of the occurrence and duration of each malfunction of each applicable boiler; and
 - (4) Records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore the malfunctioning boiler.
- b. Records shall be in a form suitable and readily available for expeditious review. Each record must be kept for 5 years following the date of each recorded action. Each record must be kept on-site or be accessible from a central location by computer or other means that instantly provides access at the site for at least 2 years after the date of each recorded action. The records may be maintained off-site for the remaining 3 years. [40 C.F.R. § 63.11225(d)] Note: Standard Condition (8) of this license requires all records be retained for six years; therefore, the five-year record retention requirement of Subpart JJJJJJ shall be streamlined to the more stringent six-year requirement.

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EPA requires submission of Notification of Compliance Status reports for tuneups and energy assessments through their electronic reporting system. [40 C.F.R. § 63.11225(a)(4)(vi)]

(18) Emergency Generators (PCSS Generator and PCES Generator)

- A. Piscataquis Community Schools shall keep records of all maintenance conducted on the engines associated with PCSS Generator and PCES Generator. [06-096 C.M.R. ch. 115, BPT]
- B. Emissions shall not exceed the following [06-096 C.M.R. ch. 115, BPT]:

Unit	PM (lb/hr)	PM ₁₀ (lb/hr)	PM _{2.5} (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
PCSS Generator	0.16	0.16	0.16	0.002	5.99	1.29	0.49
PCES Generator	0.25	0.25	0.25	0.003	9.23	1.99	0.75

C. Visible Emissions

Visible emissions from PCSS Generator and PCES Generator shall not exceed 20% opacity on a six-minute block average basis. [06-096 C.M.R. ch. 101, § 4(A)(4)]

D. PCSS Generator and PCES Generator shall meet the applicable requirements of 40 C.F.R. Part 60, Subpart IIII, including the following: [incorporated under 06-096 C.M.R. ch. 115, BPT]

1. Manufacturer Certification

The engines shall be certified by the manufacturer as meeting the emission standards for new nonroad compression ignition engines found in § 60.4202. [40 C.F.R. § 60.4205(b)] The EPA certifications supplied by the manufacturers are in the facility's air license file.

2. Ultra-Low Sulfur Fuel

The fuel fired in the engines shall not exceed 15 ppm sulfur (0.0015% sulfur). Compliance with the fuel sulfur content limit shall be demonstrated by fuel delivery receipts from the supplier, fuel supplier certification, certificate of analysis, or testing of the fuel in the tank on-site. [40 C.F.R. § 60.4207(b) and 06-096 C.M.R. ch. 115, BPT]

3. Non-Resettable Hour Meter

A non-resettable hour meter shall be installed and operated on each engine. [40 C.F.R. § 60.4209(a)]

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4. 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). These 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. § 60.4211(f) and 06-096 C.M.R. ch. 115, BPT]
- b. Piscataquis Community Schools shall keep records that include 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. [40 C.F.R. § 60.4214(b)]

5. Operation and Maintenance

The engines shall be operated and maintained according to the manufacturer's emission-related written instructions. Piscataquis Community Schools may only change those emission-related settings that are permitted by the manufacturer. [40 C.F.R. § 60.4211(a)]

Piscataquis Community Schools 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]

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(19) 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, Piscataquis Community Schools may be required to submit additional information. Upon written request from the Department, Piscataquis Community Schools 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)]

Done and dated in augusta, maine this 21^{st} day of MARCH, 2024.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:

MELANIE LOYZIM, COMMISSIONER

for

The term of this license shall be ten (10) years from the signature date above.

[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: May 24, 2023

Date of application acceptance: June 2, 2023

Date filed with the Board of Environmental Protection:

This Order prepared by Kendra Nash, Bureau of Air Quality.

FILED

MAR 21, 2024

State of Maine Board of Environmental Protection