

STATE OF MAINE
DEPARTMENT OF ENVIRONMENTAL PROTECTION



PAUL R. LEPAGE
GOVERNOR



PAUL MERCER
COMMISSIONER

**Northern Maine Community College
Aroostook County
Presque Isle, Maine
A-444-71-I-R**

**Departmental
Findings of Fact and Order
Air Emission License
Renewal**

FINDINGS OF FACT

After review of the air emission license 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 Annotated (M.R.S.A.), §344 and §590, the Maine Department of Environmental Protection (Department) finds the following facts:

I. REGISTRATION

A. Introduction

Northern Maine Community College (NMCC) has applied to renew their Air Emission License permitting the operation of emission sources associated with their educational facility.

NMCC has requested to replace their current 'Paintbooth Spray Gun' with a 'Down-Draft Paintbooth Spray Gun'. Because NMCC will continue to apply VOC and/or HAP containing paint in the same manner, emissions from the painting operation shall remain exactly as previously licensed.

The equipment addressed in this license is located at 33 Edgemont Drive in Presque Isle, Maine.

B. Emission Equipment

The following equipment is addressed in this air emission license:

Boilers

Equipment	Maximum Capacity (MMBtu/hr)	Fuel Type	Maximum Firing Rate	Sulfur	Manufacture Date	Stack #
Boiler B-600	3.78	Distillate	27.0 gal/hour	0.5%	2003	6
Boiler B-610	2.59	Distillate	18.5 gal/hour	0.5%	1979	6
Boiler B-650	4.76	Distillate	34.0 gal/hour	0.5%	2000	6
Boiler B-700-1	2.0	Distillate	14.4 gal/hour	0.5%	2010	9

AUGUSTA
17 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0017
(207) 287-7688 FAX: (207) 287-7826
RAY BLDG., HOSPITAL ST.

BANGOR
106 HOGAN ROAD, SUITE 6
BANGOR, MAINE 04401
(207) 941-4570 FAX: (207) 941-4584

PORTLAND
312 CANCO ROAD
PORTLAND, MAINE 04103
(207) 822-6300 FAX: (207) 822-6303

PRESQUE ISLE
1235 CENTRAL DRIVE, SKYWAY PARK
PRESQUE ISLE, MAINE 04769
(207) 764-0477 FAX: (207) 760-3143

Boiler B-700-2	2.0	Distillate	14.4 gal/hour	0.5%	2011	9
Boiler B-793-1	1.05	Distillate	7.5 gal/hour	0.5%	1992	14
Boiler B-793-2	1.05	Distillate	7.5 gal/hour	0.5%	1992	14
Boiler B-800-1	3.62	Wood Pellets	0.27 tons/hour	negligible	2011	15

NMCC also operates the following equipment that have been previously determined to be insignificant activities pursuant to 06-096 CMR 115. Therefore, this equipment is listed for inventory purposes only.

Equipment	Maximum Capacity (MMBtu/hr)	Fuel Type	Maximum Firing Rate (gal/hour)	Sulfur	Manufacture Date	Stack #
Boiler B-725-3	0.87	Propane	9.26	negligible	2008	16
Water Heater 725-1	0.10	Propane	-	negligible	2011	10
Furnace B-226	0.25	Distillate	1.75	0.5%	2002	17
Furnace B-310	0.32	Distillate	2.25	0.5%	1992	3
Boiler B-752	0.49	Distillate	5.75	0.5%	2015	13
Boiler B-751	0.62	Distillate	4.45	0.5%	1980	12
Boiler B-269	0.91	Distillate	6.50	0.5%	1976	2
Boiler B-750	0.91	Distillate	6.50	0.5%	2002	11
AltEnergy-920	0.51	Distillate	5.00	0.5%	2011	20

NMCC also operates a number of parts washers and two paint spray booths in the auto body shop:

Parts Washers

Equipment	Capacity (gallons)	Solvent	% VOC (pounds/gallon)
Parts Washer D-1	30	Aqueous	0.13
Parts Washer D-2	30	Aqueous	0.13
Parts Washer D-3	104	Metal Wash II Soap/Water	na
Spray Gun Cleaner AB-1	5	Thinner	6.6
Parts Washer AM-1	50	Metal Wash II Soap/Water	na
Parts Washer AM-2	20	Aqueous	0.13

Paint Spray Booths

Equipment	Rate (gallons/hour)	Control Device(s)	Stack #
Down Draft Paintbooth Spray Gun #1	1	Polyester Filters	Fugitive
Down Draft Paintbooth Spray Gun #2	1	Polyester Filters	Fugitive

C. Definitions

Distillate Fuel means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials 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.

D. Application Classification

The application for NMCC does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of currently licensed emission units only and has been processed through *Major and Minor Source Air Emission License Regulations*, 06-096 Code of Maine Rules (CMR) 115 (as amended). With the annual facility-wide fuel limit, NMCC is licensed below the major source thresholds for criteria pollutants and is considered a minor source. NMCC is also licensed below the major source thresholds for hazardous air pollutants (HAP) and is considered an area source of 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 06-096 CMR 100 (as amended). Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

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 B-600, B-610, B-650, B-700-1, B-700-2, B793-1, B793-2 and B-800-1

NMCC uses multiple boilers to satisfy the school's heating and hot water needs for its campus buildings. Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 range in size from 1.05 to 4.76 MMBtu/hour and are licensed to fire distillate fuel with a sulfur content not to exceed 0.5% by weight.

Boiler B-800-1 is licensed to fire wood pellets.

1. BPT Findings

The BPT emission limits for distillate-firing boilers were based on the following:

PM/PM₁₀ 0.08 lb/MMBtu based on 06-096 CMR 115, BPT
SO₂ 0.5 lb/MMBtu, firing 0.5%S distillate fuel
NO_x 0.3 lb/MMBtu, previous BACT determination
CO 5.0 lb/1000 gallons, AP-42, Table 1.3-1, dated 5/10
VOC 0.34 lb/1000 gallons, AP-42, Table 1.3-3, dated 5/10
Opacity 06-096 CMR 101, previous BACT determination

The BPT emission limits for the wood pellet-firing boiler were based on the following:

PM/PM₁₀ 0.25 lb/MMBTU, previous BACT determination
SO₂ 0.025 lb/MMBTU, AP-42 Table 1.6-2, dated 9/03
NO_x 0.49 lb/MMBTU, AP-42 Table 1.6-2, dated 9/03
CO 0.6 lb/MMBTU, AP-42 Table 1.6-2, dated 9/03
VOC 0.017 lb/MMBTU, AP-42 Table 1.6-3, dated 9/03
Opacity 06-096 CMR 101, previous BACT determination

The BPT emission limits for the boilers are the following:

Equipment	Firing	PM (lb/hr)	PM ₁₀ (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler B-600	Distillate Fuel	0.30	0.30	1.90	1.14	0.14	0.01
Boiler B-610	Distillate Fuel	0.21	0.21	1.31	0.78	0.09	0.01
Boiler B-650	Distillate Fuel	0.38	0.38	2.40	1.43	0.17	0.01
Boiler B-700-1	Distillate Fuel	0.16	0.16	1.01	0.60	0.07	0.01
Boiler B-700-2	Distillate Fuel	0.16	0.16	1.01	0.60	0.07	0.01
Boiler B-793-1	Distillate Fuel	0.08	0.08	0.53	0.32	0.04	0.01
Boiler B-793-2	Distillate Fuel	0.08	0.08	0.53	0.32	0.04	0.01
Boiler B-800-1	Wood Pellets	0.91	0.91	0.09	1.77	2.17	0.06

NMCC shall operate a multi-cyclone to control particulate emissions from Boiler B-800-1 whenever the boiler is in operation.

Total facility-wide distillate fuel use shall not exceed 250,000 gallons/year, on a calendar-year basis. Boiler B-800-1 may operate up to a maximum of 8,760 hours per calendar-year.

Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 are licensed to fire distillate fuel which, by definition, has a sulfur content of 0.5% or less by weight. Per 38 M.R.S.A. §603-A(2)(A)(3), as of July 1, 2018, no person shall import, distribute, or offer for sale any distillate fuel with a sulfur content greater than 0.0015% by weight (15 ppm). Therefore, beginning July 1, 2018, the distillate fuel purchased or otherwise obtained for use in Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 shall not exceed 0.0015% by weight (15 ppm).

Visible emissions from Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 shall not exceed 20% opacity on a six-minute block average basis, except for no more than one six-minute block average in a three-hour period.

Visible emissions from Boiler B-800-1 shall not exceed 30% opacity on a six-minute block average basis, except for no more than two six-minute block averages in a continuous three-hour period.

2. Periodic Monitoring

Periodic monitoring for all boilers shall include recordkeeping to document fuel use both on a monthly and calendar-year basis. Documentation shall include the type of fuel used and sulfur content of the fuel, if applicable.

3. 40 CFR Part 60, Subpart Dc

Due to each boiler having a maximum design heat input capacity less than 10 MMBtu/hour, none of the boilers are subject to the New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart Dc, *Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units*, for units greater than 10 MMBtu/hour manufactured after June 9, 1989.

4. 40 CFR Part 63, Subpart JJJJJ

Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1, B793-2 and B-800-1 are all subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (40 CFR Part 63 Subpart JJJJJ) as these units are considered existing oil or biomass boilers rated less than 10 MMBtu/hour.

A summary of the currently applicable federal 40 CFR Part 63 Subpart JJJJJ requirements is listed below. At this time, the Department has not taken delegation of this area source MACT (Maximum Achievable Control Technology) rule promulgated by EPA, however NMCC is still subject to the requirements. Notification forms and additional rule information can be found on the following website: <http://www.epa.gov/ttn/atw/boiler/boilerpg.html>.

a. Compliance Dates, Notifications, and Work Practice Requirements

(1) Initial Notification of Compliance

An Initial Notification was submitted to EPA September 16, 2011. [40 CFR Part 63.11225(a)(2)]

(2) Boiler Tune-Up Program

- (i) A boiler tune-up program shall be implemented. [40 CFR Part 63.11223]
- (ii) Each tune-up shall be conducted at a frequency specified by the rule and based on the size, age, and operations of the boiler. See chart below:

<i>Boiler Category</i>	<i>Tune-Up Frequency</i>
New or Existing Oil, Biomass and Coal fired boilers that are not designated as "Boilers with less frequent tune up requirements" listed below	Every 2 years
<i>New and Existing Oil, Biomass, and Coal fired Boilers with less frequent tune up requirements</i>	
Seasonal (see definition §63.11237)	Every 5 years
Limited use (see definition §63.11237)	Every 5 years
Oil-fired boilers with a heat input capacity of ≤5MMBtu/hr	Every 5 years
Boiler with oxygen trim system which maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune up	Every 5 years

[40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or equal to 5 MMBtu/hour, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(1)]
 2. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern, consistent with the manufacturer’s specifications. [40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or equal to 5 MMBtu/hour, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(3)]
 4. Optimize total emissions of CO, consistent with manufacturer’s specifications. [40 CFR Part 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 CFR Part 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 CFR Part 63.11223(b)(7)]

(iv) Tune-Up Report: A tune-up report shall be maintained onsite and, if requested, submitted to USEPA. 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 twelve 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 CFR §63.11223(b)(6)]

(v) After conducting the initial boiler tune-up, a Notification of Compliance Status shall be submitted to EPA no later than July 19, 2014. [40 CFR Part 63.11225(a)(4) and 40 CFR Part 63.11214(b)]

(3) Compliance Report:

A compliance report shall be prepared by March 1st every five years which covers the previous five calendar years. The report shall be maintained by the source and submitted to the Department and to the EPA upon request. The report must include the items contained in §63.11225(b)(1) and (2), including the following: [40 CFR §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 CFR §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 40 CFR §§63.11214(d) to conduct a tune-up of each applicable boiler according to 40 CFR §63.11223(b)."

C. Parts Washer

NMCC operates a total of six part washers. Each part washer is subject to *Solvent Cleaners*, 06-096 CMR 130 (as amended), and records shall be kept documenting compliance.

D. Paint Spray Booths

NMCC operates two down draft spray booths in the auto body shop. These booths are used infrequently for instructional and educational purposes only. NMCC accepts a limit of 50 gallons per calendar year (combined) of VOC or HAP containing paint to be used in the two paint spray booths. This limit exempts the booths from additional requirements per 06-096 CMR 115 Appendix B (B11).

E. Plumbing and Heating Classroom Boilers

NMCC operates several small boilers and a waste oil burner in their plumbing and heating shop. These units are repaired and infrequently fired for instructional and training purposes only. Due to their size and the nature of their use, the classroom boilers and waste oil burner are considered to be insignificant activities and are exempt from the requirements of the license.

F. Annual Emissions

1. Total Annual Emissions

NMCC shall be restricted to the following annual emissions which are based on firing 250,000 gallons of distillate fuel per calendar year and maximum operation of 8,760 hours per year for the wood pellet boiler:

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

Equipment	PM	PM ₁₀	SO ₂	NO _x	CO	VOC
Distillate Fired Boilers	1.4	1.4	8.8	2.5	0.6	0.1
Wood Pellet Fired Boiler	4.0	4.0	0.4	7.7	9.5	0.3
Total TPY	5.4	5.4	9.2	10.2	10.1	0.4

2. Greenhouse Gases

Greenhouse gases are considered regulated pollutants as of January 2, 2011, through 'Tailoring' revisions made to EPA's *Approval and Promulgation of Implementation Plans*, 40 CFR Part 52, Subpart A, §52.21, *Prevention of Significant Deterioration of Air Quality* rule. Greenhouse gases, as defined in 06-096 CMR 100 (as amended), are the aggregate group of the following gases: carbon dioxide, nitrous oxide, methane, hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. For licensing purposes, greenhouse gases (GHG) are calculated and reported as carbon dioxide equivalents (CO₂e).

The quantity of CO₂e emissions from this facility is less than 100,000 tons per year, based on the following:

- the types of fuel being fired;
- the facility's fuel use limit;
- worst case emission factors from the following sources: U.S. EPA's AP-42, the Intergovernmental Panel on Climate Change (IPCC), and 40 CFR Part 98, *Mandatory Greenhouse Gas Reporting*; and
- global warming potentials contained in 40 CFR Part 98.

No additional licensing actions to address GHG emissions are required at this time.

III. AMBIENT AIR QUALITY ANALYSIS

The level of ambient air quality impact modeling required for a minor source shall be determined by the Department on a case-by case basis. In accordance with 06-096 CMR 115, an ambient air quality impact analysis is not required for a minor source if the total licensed annual emissions of any pollutant released do not exceed the following levels and there are no extenuating circumstances:

Pollutant	Tons/Year
PM	25

PM ₁₀	25
SO ₂	50
NO _x	100
CO	250

The total licensed annual emissions for the facility are below the emission levels contained in the table above and there are no extenuating circumstances; therefore, an ambient air quality impact analysis is not required as part of this license.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards, and
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-444-71-I-R, subject to the following conditions.

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

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.A. §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115.
[06-096 CMR 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 CMR 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 CMR 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353-A. [06-096 CMR 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [06-096 CMR 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 CMR 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 CMR 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 CMR 115]
- (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 CMR 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR 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 CFR 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 CMR 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 such test results, 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 CFR 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
 - 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 CMR 115]
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the 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 Part 70 license requirement. [06-096 CMR 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 CMR 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 CMR 115]

SPECIFIC CONDITIONS

- (16) **Distillate-Fired Boilers: B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2**

A. Fuel

1. Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 are each licensed to fire distillate fuel with sulfur content not to exceed 0.5%, by weight.
[06-096 CMR 115, BPT]
2. Prior to July 1, 2018, any distillate fuel fired in Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 shall have a maximum sulfur content not to exceed 0.5% by weight. [06-096 CMR 115, BPT]
3. Beginning July 1, 2018, NMCC shall not purchase or otherwise obtain distillate fuel with a maximum sulfur content that exceeds 0.0015% by weight (15 ppm) for use in Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2. [06-096 CMR 115, BPT]
4. Total facility-wide distillate fuel use shall not exceed 250,000 gallons/year, on a calendar-year basis.
5. Compliance shall be demonstrated by fuel records from the supplier showing the type, amount and the percent sulfur of the fuel delivered, if applicable.
[06-096 CMR 115, BPT]

- B. Emissions shall not exceed the following [06-096 CMR 115, BPT]:

Equipment	Firing	PM (lb/hr)	PM ₁₀ (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler B-600	Distillate	0.30	0.30	1.90	1.14	0.14	0.01
Boiler B-610	Distillate	0.21	0.21	1.31	0.78	0.09	0.01
Boiler B-650	Distillate	0.38	0.38	2.40	1.43	0.17	0.01
Boiler B-700-1	Distillate	0.16	0.16	1.01	0.60	0.07	0.01
Boiler B-700-2	Distillate	0.16	0.16	1.01	0.60	0.07	0.01
Boiler B-793-1	Distillate	0.08	0.08	0.53	0.32	0.04	0.01
Boiler B-793-2	Distillate	0.08	0.08	0.53	0.32	0.04	0.01

- C. Visible emissions from each boiler shall not exceed 20% opacity on a six-minute block average basis, except for no more than one six-minute block average in a three-hour period. [06-096 CMR 101(2)(B)(1)(b)]
- D. Boiler MACT (40 CFR Part 63, Subpart JJJJJ) Requirements for Boilers B-600, B-610, B-650, B-700-1, B-700-2, B793-1 and B793-2 [incorporated under 06-096 CMR 115, BPT]
 - 1. The facility shall implement a boiler tune-up program. [40 CFR Part 63.11223]
 - a. Each tune-up shall be conducted at a frequency specified by the rule and based on the size, age, and operations of the boiler. See chart below:

<i>Boiler Category</i>	<i>Tune-Up Frequency</i>
New or Existing Oil, Biomass and Coal fired boilers that are not designated as "Boilers with less frequent tune up requirements" listed below	Every 2 years
<i>New and Existing Oil, Biomass, and Coal fired Boilers with less frequent tune up requirements</i>	
Seasonal (see definition §63.11237)	Every 5 years
Limited use (see definition §63.11237)	Every 5 years
Oil-fired boilers with a heat input capacity of ≤5MMBtu/hr	Every 5 years
Boiler with oxygen trim system which maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune up	Every 5 years

[40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or equal to 5 MMBtu/hr, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(1)]
 - (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern, consistent with the manufacturer's specifications. [40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or

equal to 5 MMBtu/hr, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(3)]

- (4) Optimize total emissions of CO, consistent with manufacturer's specifications. [40 CFR Part 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 CFR Part 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 CFR Part 63.11223(b)(7)]

c. Tune-Up Report: A tune-up report shall be maintained onsite and, if requested, submitted to EPA. 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 CFR §63.11223(b)(6)]

d. After conducting the initial boiler tune-up, a Notification of Compliance Status shall be submitted to EPA no later than July 19, 2014. [40 CFR Part 63.11225(a)(4) and 40 CFR Part 63.11214(b)]

2. Compliance Report

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

- 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 CFR §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 40 CFR §§63.11214(d) to conduct a tune-up of each applicable boiler according to 40 CFR §63.11223(b)."

(17) **Wood Pellet-Fired Boiler B-800-1**

A. Fuel

Boiler B-800-1 is licensed to fire wood pellets. [06-096 CMR 115, BPT]

B. Emissions shall not exceed the following [06-096 CMR 115, BPT]:

Equipment	Firing	PM (lb/hr)	PM ₁₀ (lb/hr)	SO ₂ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler B-800-1	Wood Pellets	0.91	0.91	0.09	1.77	2.17	0.06

- C. NMCC shall operate a multi-cyclone to control particulate emissions from Boiler B-800-1 whenever the boiler is in operation. [06-096 CMR 115, BACT]
- E. Visible emissions from Boiler B-800-1 shall not exceed 30% opacity on a six-minute block average basis, except for no more than two six-minute block averages in a three-hour period. [06-096 CMR 101(2)(B)(1)(c)]
- F. Ash from Boiler B-800-1 shall be disposed of in accordance with the Department's Bureau of Remediation and Waste Management (BRWM). Ash shall be sufficiently conditioned with water or transported in covered containers so as to prevent fugitive emissions. [06-096 CMR 115, BACT]

G. Boiler MACT (40 CFR Part 63, Subpart JJJJJ) Requirements for Boilers B-800-1
[incorporated under 06-096 CMR 115, BPT]

1. The facility shall implement a boiler tune-up program. [40 CFR Part 63.11223]
 - a. Each tune-up shall be conducted at a frequency specified by the rule and based on the size, age, and operations of the boiler. See chart below:

<i>Boiler Category</i>	<i>Tune-Up Frequency</i>
New or Existing Oil, Biomass and Coal fired boilers that are not designated as "Boilers with less frequent tune up requirements" listed below	Every 2 years
<i>New and Existing Oil, Biomass, and Coal fired Boilers with less frequent tune up requirements</i>	
Seasonal (see definition §63.11237)	Every 5 years
Limited use (see definition §63.11237)	Every 5 years
Oil-fired boilers with a heat input capacity of ≤ 5 MMBtu/hr	Every 5 years
Boiler with oxygen trim system which maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune up	Every 5 years

[40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or equal to 5 MMBtu/hr, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(1)]
 - (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern, consistent with the manufacturer's specifications. [40 CFR Part 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 72 months from the previous inspection for oil fired boilers less than or equal to 5 MMBtu/hr, boilers with oxygen trim systems, seasonal boilers, and limited use boilers. [40 CFR Part 63.11223(b)(3)]

- (4) Optimize total emissions of CO, consistent with manufacturer's specifications. [40 CFR Part 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 CFR Part 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 CFR Part 63.11223(b)(7)]
- c. Tune-Up Report: A tune-up report shall be maintained onsite and, if requested, submitted to EPA. 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 CFR §63.11223(b)(6)]
- d. After conducting the initial boiler tune-up, a Notification of Compliance Status shall be submitted to EPA no later than July 19, 2014. [40 CFR Part 63.11225(a)(4) and 40 CFR Part 63.11214(b)]

2. Compliance Report

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

- 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 CFR §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 40 CFR §§63.11214(d) to conduct a tune-up of each applicable boiler according to 40 CFR §63.11223(b)."

(18) **Parts Washers**

Parts washers at NMCC are subject to *Solvent Cleaners*, 06-096 CMR 130 (as amended).

- A. NMCC shall keep records of the amount of solvent added to each parts washer. [06-096 CMR 115, BPT]
- B. The following are exempt from the requirements of 06-096 CMR 130 [06-096 CMR 130]:
 1. Solvent cleaners using less than two liters (68 oz) of cleaning solvent with a vapor pressure of 1.00 mmHg, or less, at 20° C (68° F);
 2. Wipe cleaning; and,
 3. Cold cleaning machines using solvents containing less than or equal to 5% VOC by weight.
- C. The following standards apply to cold cleaning machines that are applicable sources under Chapter 130.
 1. NMCC shall attach a permanent conspicuous label to each unit summarizing the following operational standards [06-096 CMR 130]:
 - a. Waste solvent shall be collected and stored in closed containers.

- b. Cleaned parts shall be drained of solvent directly back to the cold cleaning machine by tipping or rotating the part for at least 15 seconds or until dripping ceases, whichever is longer.
- c. Flushing of parts shall be performed with a solid solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure that does not exceed 10 psig. Flushing shall be performed only within the freeboard area of the cold cleaning machine.
- d. The cold cleaning machine shall not be exposed to drafts greater than 40 meters per minute when the cover is open.
- e. Sponges, fabric, wood, leather, paper products and other absorbent materials shall not be cleaned in the parts washer.
- f. When a pump-agitated solvent bath is used, the agitator shall be operated to produce no observable splashing of the solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used.
- g. Spills during solvent transfer shall be cleaned immediately. Sorbent material used to clean spills shall then be immediately stored in covered containers.
- h. Work area fans shall not blow across the opening of the parts washer unit.
- i. The solvent level shall not exceed the fill line.

- 2. The remote reservoir cold cleaning machine shall be equipped with a perforated drain with a diameter of not more than six inches. [06-096 CMR 130]

(19) **Paint Spray Booths**

NMCC shall not exceed 50 gallons per calendar year (combined) of VOC and/or HAP containing paint used in the Paint Spray Booths. NMCC shall keep records of the amount of paint used in the paint spray booths, on a calendar-year basis. [06-096 CMR 115, BPT]

(20) **Fugitive Emissions**

Visible emissions from a fugitive emission source (including stockpiles and roadways) shall not exceed an opacity of 20%, except for no more than five minutes in any one-hour period. Compliance shall be determined by an aggregate of the individual fifteen-second opacity observations which exceed 20% in any one hour. [06-096 CMR 101]

(21) **General Process Sources**

Visible emissions from any general process source shall not exceed an opacity of 20% on a six-minute block average basis, except for no more than one six-minute block average in a one-hour period. [06-096 CMR 101]

- (22) NMCC 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.A. §605).

DONE AND DATED IN AUGUSTA, MAINE THIS 25 DAY OF April, 2016.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:

Marc Allen Robert Corne for
PAUL MERCER, COMMISSIONER

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

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

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: November 16, 2015

Date of application acceptance: November 23, 2015

Date filed with the Board of Environmental Protection:

This Order prepared by Kevin J Ostrowski, Bureau of Air Quality.

