

Caribou Generating Station)
Aroostook County)
Caribou, Maine)
A-240-70-A-I)

Departmental
Findings of Fact and Order
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Initial Part 70 License

After review of the Initial Part 70 License application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A, Section 344 and Section 590, the Department finds the following facts:

I. Registration

A. Introduction

FACILITY	Caribou Generating Station
LICENSE NUMBER	A-240-70-A-I
LICENSE TYPE	Initial Part 70 License
SIC CODES	4911
NATURE OF BUSINESS	Electric Services
FACILITY LOCATION	Caribou, Maine
DATE OF LICENSE ISSUANCE	April 10, 2001
LICENSE EXPIRATION DATE	April 10, 2006

B. Emission Equipment

The following emission units are addressed by this Part 70 License:

EMISSION UNIT ID	UNIT CAPACITY	UNIT TYPE
1S-Boiler #1	125.2 MMBtu/hr	Boiler
2S-Boiler #2	187.0 MMBtu/hr	Boiler
2D-Diesel #2	26.6 MMBtu/hr	Diesel Engine
3D-Diesel #3	26.6 MMBtu/hr	Diesel Engine
4D-Diesel #4	10.9 MMBtu/hr	Diesel Engine
5D-Diesel #5	13.3 MMBtu/hr	Diesel Engine
6-Heating Boiler	2.8 MMBtu/hr	Boiler

Caribou Generating Station has additional insignificant activities which do not need to be listed in the emission equipment table above. The list of insignificant activities can be found in the Part 70 license application and in Appendix B of Chapter 140 of the Department's Regulations.

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C. Application Classification

The application for Caribou Generating Station does not include the licensing of increased emissions or the installation of new or modified equipment, therefore the license is considered to be an Initial Part 70 License issued under Chapter 140 of the Department's regulations for a Part 70 source.

II. EMISSION UNIT DESCRIPTION

A. Process Description

Caribou Generating Station is an electric generating facility located in Caribou, Maine. The plant consists of four generation units, all of which fire #2 distillate fuel oil and a small (2.8 MMBtu/hr) oil-fired boiler which provides building heat and auxiliary steam. Two steam generating units are also listed on the license, but are not currently in operation. These two units are boilers #1 and #2 rated at 125.2 and 187.0 MMBtu/hr licensed to fire #6 fuel oil.

NO_x RACT

Caribou Generating Station is in an attainment area for all US EPA designated criteria air pollutants, however, Aroostook County is designated as a transport region for ozone. Chapter 138 of the Maine Air Regulations requires that every source which has the potential to emit equal to or greater than 100 tons per year apply NO_x RACT to their applicable NO_x emissions. Chapter 138 NO_x RACT requirements are incorporated into this initial Part 70 license.

Streamlining

Caribou Generating Station has accepted streamlining for certain requirements, as stated below under the applicable sections. Streamlining is the process of listing the applicable regulations and accepting only the most stringent.

B. Boilers #1 and #2, residual oil-fired boilers

Unit Size and Age

Boilers #1 and #2 were manufactured by Combustion Engineering with a maximum design heat input of 125.2 and 187.0 MMBtu/hr, respectively, each firing #6 fuel oil. The boilers were installed in 1950 and 1955, prior to the New Source Performance Standards (NSPS) Subpart Db applicability date. The boilers are steam generating units that are currently inactive. Emissions for boilers #1 and #2 exit through separate 132.3 ft stack, designated as stacks #S1 and #S2.

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Streamlining

Opacity

Caribou Generating Station accepts streamlining for opacity requirements. Chapter 101, Section 2(D) of the Department's regulations and Best Practical Treatment (BPT) requirements are applicable. The Best Practical Treatment (BPT) opacity limit is more stringent. Therefore, only the more stringent BPT opacity limit is included in this license.

Periodic Monitoring

Periodic monitoring shall consist of recordkeeping which includes records of fuel use through purchase receipts indicating amounts (gallons) and percent sulfur by weight.

C. Diesel Units #2 - #5, distillate oil-fired electrical generating units

Unit Size and Age

Diesel units #2 and #3 were manufactured by Nordberg with a maximum design heat input of 26.6 MMBtu/hr each, firing #2 fuel oil. Diesel unit #4 was manufactured by Superior with a maximum design heat input of 10.9 MMBtu/hr firing #2 fuel oil and diesel unit #5 was manufactured by General Motors with a maximum design heat input of 13.3 MMBtu/hr firing #2 fuel oil. Emissions for diesel units #2-#5 each exit through a separate stack, designated as stacks #CD2, #CD3, #CD4, and #CD5 with heights of 50.5, 50.5, 47.0, and 30.0 feet, respectively.

Streamlining

Opacity

Caribou Generating Station accepts streamlining for opacity requirements. Chapter 101, Section 2(A)(1) of the Department's regulations and Best Practical Treatment (BPT) requirements are applicable. The Best Practical Treatment (BPT) opacity limit is more stringent. Therefore, only the more stringent BPT opacity limit is included in this license.

Fuel Oil Sulfur Content

Caribou Generating Station accepts streamlining for fuel oil sulfur content. Chapter 106, Section 2(A)(2) of the Department's regulations and Best Practical Treatment (BPT) requirements are applicable. The Best Practical Treatment (BPT) sulfur content limit is more stringent. Therefore, only the more stringent BPT sulfur content limit is included in this license.

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Periodic Monitoring

Periodic monitoring shall consist of recordkeeping which includes records of fuel use through purchase receipts indicating amounts (gallons) and percent sulfur by weight and hours of operation for each unit.

D. Heating Boiler, distillate oil-fired boiler

Unit Size and Age

The heating boiler was manufactured by Superior Combustion Industries with a maximum design heat input of 2.8 MMBtu/hr firing #2 fuel oil. The heating boiler was installed in 1950, prior to the New Source Performance Standards (NSPS) Subpart D applicability date. Emissions for the heating boiler exit through a stack, designated as stack #3 with a height of 88.6 feet.

Streamlining

Opacity

Caribou Generating Station accepts streamlining for opacity requirements. Chapter 101, Section 2(A)(1) of the Department's regulations and Best Practical Treatment (BPT) requirements are applicable. The Best Practical Treatment (BPT) opacity limit is more stringent. Therefore, only the more stringent BPT opacity limit is included in this license.

Fuel Oil Sulfur Content

Caribou Generating Station accepts streamlining for fuel oil sulfur content. Chapter 106, Section 2(A)(2) of the Department's regulations and Best Practical Treatment (BPT) requirements are applicable. The Best Practical Treatment (BPT) sulfur content limit is more stringent. Therefore, only the more stringent BPT sulfur content limit is included in this license.

Periodic Monitoring

Periodic monitoring shall consist of recordkeeping which includes records of fuel use through purchase receipts indicating amounts (gallons) and percent sulfur by weight.

Based on best management practices and the type of fuel for which the boiler was designed, it is unlikely that the boiler will exceed the opacity limits. Therefore, periodic monitoring by the source for opacity in the form of visible emission testing is not required. However, neither the EPA nor the State is precluded from performing its own testing and may take enforcement action for any violations discovered.

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E. Facility Emissions

Total Allowable Annual Emissions for the Facility
(used to calculate the license fee)

Pollutant	Tons/Year
PM	281.1
PM ₁₀	281.1
SO ₂	2885.5
NO _x	644.5
CO	80.2
VOC	16.8

III. AIR QUALITY ANALYSIS

Caribou Generating Station previously submitted an ambient air quality analysis demonstrating that emissions from the facility, in conjunction with all other sources, do not violate ambient air quality standards in their proposed configuration. This analysis can be found in Air Emission License A-240-71-A-R issued on April 1, 1998. An additional ambient air quality analysis is not required for this Initial Part 70 License, however, an analysis will be required prior to the operation of boilers #1 and #2.

ORDER

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

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

The Department hereby grants the Part 70 License A-240-70-A-I, subject to the following conditions:

For each standard and special condition which is state enforceable only, state-only enforceability is designated with the following statement: **Enforceable by State-only.**

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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 emission 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 and this license;
- (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 140;
- (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;
- (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; **Enforceable by State-only**
- (5) The licensee shall pay the annual air emissions license fee to the Department, calculated pursuant to Title 38 MRSA §353;
- (6) The Part 70 license does not convey any property rights of any sort, or any exclusive privilege;
- (7) The licensee shall maintain and operate all emission units and air pollution control systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions; **Enforceable by State-only**
- (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 or in accordance with other provisions of this license;

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- (9) The licensee shall comply with all terms and conditions of the air emission license. The submission of notice of intent to reopen for cause by the Department, 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 the renewal of a Part 70 license or amendment shall not stay any condition of the Part 70 license;
- (10) All terms and conditions are enforceable by EPA and citizens under the CAA unless specifically designated as state enforceable;
- (11) 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;
- (12) 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 under circumstances representative of the facility's normal process and operating conditions:
 - (i) 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;
 - (ii) to demonstrate compliance with the applicable emission standards; or
 - (iii) 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 emissions testing; and
 - (c) submit a written report to the Department within thirty (30) days from the date of test completion.

Enforceable by State-only

- (13) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicates 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 a interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

Enforceable by State-only

- (14) Notwithstanding any other provision 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.
- (15) Compliance with the conditions of this Part 70 license shall be deemed compliance with any Applicable requirement as of the date of license issuance and is deemed a permit shield, provided that:
 - (a) Such Applicable and state requirements are included and are specifically identified in the Part 70 license, except where the Part 70 license term or condition is specifically identified as not having a permit shield; or
 - (b) The Department, in acting on the Part 70 license application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the Part 70 license includes the determination or a concise summary, thereof.

Nothing in this section or any Part 70 license shall alter or effect the provisions of Section 303 of the CAA (emergency orders), including the authority of EPA under Section 303; the liability of an owner or operator of a source for any violation of Applicable requirements prior to or at the time of permit issuance; or the ability of EPA to obtain information from a source pursuant to section 114 of the CAA.

- (16) The licensee shall retain records of all required monitoring data and support information for a period of at least six (6) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the Part 70 license.
- (17) The licensee shall maintain records of all deviations from license requirements. Such deviations shall include, but are not limited to malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emission unit itself 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 working day, whichever is later, of such occasions and shall report the probable cause, corrective action, and any excess emissions in the units of the applicable emission limitation;
- (18) Upon the written request of 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 manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status.
- (19) The licensee shall submit semiannual reports of any required periodic monitoring. All instances of deviations from Part 70 license requirements must be clearly identified in such reports. All required reports must be certified by a responsible official.
- (20) The licensee shall submit a compliance certification to the Department and EPA at least annually, or more frequent if specified in the Applicable requirement by the Department. The compliance certification shall include the following:
- (a) The identification of each term or condition of the Part 70 license that is the basis of the certification;
 - (b) The compliance status;
 - (c) Whether compliance was continuous or intermittent;
 - (d) The method(s) used for determining the compliance status of the source, currently and over the reporting period; and

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- (e) Such other facts as the Department may require to determine the compliance status of the source;
- (21) The Part 70 license shall be reopened for cause by the Department or EPA, prior to the expiration of the Part 70 license, if:
- (a) Additional Applicable requirements under the CAA become applicable to the Part 70 major source with a remaining Part 70 license term of 3 or more years. However, no opening is required if the effective date of the requirement is later than the date on which the Part 70 license is due to expire, unless the original Part 70 license or any of its terms and conditions has been extended pursuant to Chapter 140;
 - (b) Additional requirements (including excess emissions requirements) become applicable to the Title IV source under the acid rain program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the Part 70 license;
 - (c) The Department or EPA determines that the Part 70 license contains a material mistake or that inaccurate statements were made in establishing the emission standards or other terms of conditions of the Part 70 license; or
 - (d) The Department or EPA determines that the Part 70 license must be revised or revoked to assure compliance with the Applicable requirements.

The licensee shall furnish to the Department within a reasonable time any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the Part 70 license or to determine compliance with the Part 70 license.

- (22) No license revision or amendment shall be required, under any approved economic incentives, marketable licenses, emissions trading and other similar programs or processes for changes that are provided for in the Part 70 license.

SPECIAL CONDITIONS

- (23) **Permit Shield for Non-Applicable Requirements**
The following requirements have been specifically identified as not applicable based upon information submitted by the licensee in an application dated March 30, 2000.

	SOURCE	CITATION	DESCRIPTION	BASIS FOR DETERMINATION
a.	Boilers #1 and #2	40 CFR Part 60 Subpart Db	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	Commenced construction prior to June 19, 1984
b.	Tanks 1S, 2S, 1D and 2D	40 CFR Part 60 Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids	Commenced construction prior to June 11, 1973
c.	small fuel tank	40 CFR Part 60 Subpart K	Standards of Performance for Storage Vessels for Petroleum Liquids	Size does meet minimum requirements

(24) Boilers #1 and #2

- A. Caribou Generating Station is licensed to operate boilers #1 and #2 rated at 125.2 and 187.0 MMBtu/hr, respectively, each licensed to fire #6 fuel oil. [ME DEP, Chapter 140, BPT]
- B. The sulfur content of the fuel oil fired shall not exceed the sulfur content as prescribed by the modeling analysis required by condition 24(G). [ME DEP, Chapter 106]
- C. Emissions from boilers #1 and #2 shall each not exceed the following limits:

<i>Pollutant</i>	<i>lb/MMBtu</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.20	ME DEP, Chapter 103, Section 2(A)(1)	-
PM ₁₀	0.20	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	0.40	ME DEP, Chapter 138	-

- D. Emissions from boiler #1 shall not exceed the following limits:

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	25.0	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	25.0	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	262.9	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	50.1	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	5.1	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	1.3	ME DEP, Chapter 140, BPT	Enforceable by State-only

- E. Emissions from boiler #2 shall not exceed the following limits:

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	37.4	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	37.4	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	392.7	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	74.8	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	7.5	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	1.9	ME DEP, Chapter 140, BPT	Enforceable by State-only

F. Caribou Generating Station shall operate boilers #1 and #2 such that the visible emissions from stacks #S1 and #S2 each do not exceed 30% opacity on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period. [ME DEP, Chapter 140, BPT]

G. Caribou Generating Station shall not operate boiler #1 and #2 until such time that a modeling analysis demonstrating compliance with Maine Ambient Air Quality Standards has been approved by the Department and a license amendment has been issued. [ME DEP, Chapter 140, BPT]

H. Caribou Generating Station shall perform a compliance stack test for NO_x for boilers #1 and #2 in accordance with 40 CFR Part 60, Appendix A or another method approved by the Department and/or the EPA for each year that Caribou Generating Station burns more than 125,000 gallons of fuel oil between the dates of May 1 and September 30 in boilers #1 and #2. [ME DEP, Chapter 138, NO_x RACT]

(25) Diesel Units #2-#5

A. Caribou Generating Station is licensed to operate diesel units #2-#5 rated at 26.6, 26.6, 10.9, and 13.3 MMBtu/hr, respectively, each licensed to fire #2 fuel oil. [ME DEP, Chapter 140, BPT]

B. The sulfur content of the fuel oil fired shall not exceed 0.35% by weight demonstrated by purchase records from the supplier. [ME DEP, Chapter 140, BPT]

C. Emissions from diesel units #2-#5 shall each not exceed the following limits:

<i>Pollutant</i>	<i>lb/MMBtu</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.20	ME DEP, Chapter 103, Section 2(A)(1)	-
PM ₁₀	0.20	ME DEP, Chapter 140, BPT	Enforceable by State-only

D. Emissions from diesel units #2 and #3 shall each not exceed the following limits:

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	5.3	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	5.3	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	9.6	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	95.8	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	24.5	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	2.7	ME DEP, Chapter 140, BPT	Enforceable by State-only

E. Emissions from diesel unit #4 shall not exceed the following limits:

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	2.2	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	2.2	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	3.9	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	39.2	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	10.0	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	1.1	ME DEP, Chapter 140, BPT	Enforceable by State-only

F. Emissions from diesel unit #5 shall not exceed the following limits:

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	2.7	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	2.7	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	4.8	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	47.9	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	12.2	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	1.3	ME DEP, Chapter 140, BPT	Enforceable by State-only

G. Caribou Generating Station shall operate diesel units #2-#5 such that the visible emissions from each unit do not exceed 30% opacity on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period. [ME DEP, Chapter 140, BPT]

H. Caribou Generating Station shall limit the operation of the diesel units (#2-#5) to a cumulative total of no more than 2000 hours per year (based on a 12 month rolling total). [ME DEP, Chapter 138, NO_x RACT]

I. Caribou Generating Station shall operate hour meters to record the hours of operation for each of the diesel units #2-#5 and record these in a log. [ME DEP, Chapter 138, NO_x RACT]

J. Caribou Generating Station shall be required to re-submit for re-evaluation the NO_x RACT proposal for diesel units #2-#5 should the hours of operation for any unit exceed 500 hours per year (based on a 12 month rolling total). This analysis shall be submitted within 60 days of the exceedance. [ME DEP, Chapter 138, NO_x RACT]

(26) Heating Boiler

A. Caribou Generating Station is licensed to operate a heating boiler rated at 2.8 MMBtu/hr, licensed to fire #2 fuel oil. [ME DEP, Chapter 140, BPT]

B. The sulfur content of the fuel oil fired shall not exceed 0.35% by weight demonstrated by purchase records from the supplier. [ME DEP, Chapter 140, BPT]

C. Emissions from heating boiler shall each not exceed the following limits:

<i>Pollutant</i>	<i>lb/MMBtu</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.20	ME DEP, Chapter 103, Section 2(A)(1)	-
PM ₁₀	0.20	ME DEP, Chapter 140, BPT	Enforceable by State-only

<i>Pollutant</i>	<i>lb/hr</i>	<i>Origin and Authority</i>	<i>Enforceability</i>
PM	0.56	ME DEP, Chapter 140, BPT	Enforceable by State-only
PM ₁₀	0.56	ME DEP, Chapter 140, BPT	Enforceable by State-only
SO ₂	1.0	ME DEP, Chapter 140, BPT	Enforceable by State-only
NO _x	0.39	ME DEP, Chapter 140, BPT	Enforceable by State-only
CO	0.11	ME DEP, Chapter 140, BPT	Enforceable by State-only
VOC	0.03	ME DEP, Chapter 140, BPT	Enforceable by State-only

D. Caribou Generating Station shall operate the heating boiler such that the visible emissions from each do not exceed 20% opacity on a six (6) minute block average basis, except for no more than two (2) six (6) minute block averages in a 3-hour period. [ME DEP, Chapter 140, BPT]

(27) Recordkeeping

For all recordkeeping required by this license, the licensee shall maintain records of the most current six year period. [ME DEP, Chapter 140]

A. The following records shall be maintained for boilers #1 and #2:

1. Annual #6 fuel use indicating the quantity of fuel consumed (gallons), the percent (%) sulfur content of the fuel by weight, and the heat content of the fuel demonstrated by purchase receipts from the supplier.

2. The annual average capacity factor (based on a 12 month rolling total) as demonstrated on a monthly basis through fuel oil firing rates for each boiler.
 - B. The following records shall be maintained for diesel units #2-#5:
 1. Annual #2 fuel use indicating the quantity of fuel consumed (gallons), the percent (%) sulfur content of the fuel by weight, and the heat content of the fuel demonstrated by purchase receipts from the supplier.
 2. The hours of operation for each unit as demonstrated by hour meters operated on each unit at all times.
 - C. The following records shall be maintained for the heating boiler:
Annual #2 fuel use indicating the quantity of fuel consumed (gallons), the percent (%) sulfur content of the fuel by weight, and the heat content of the fuel demonstrated by the purchase receipts from the supplier.
 - D. Caribou Generating Station shall maintain records of fuel oil delivered to each storage tank at the facility on a monthly basis.
- (28) The following conditions shall immediately apply to boilers #1 and #2 at such time that operations exceed 30% of the annual average capacity factor:
- A. Boilers #1 and #2 shall be equipped with a continuous opacity monitoring system (COMS) prior to operation. This equipment shall be fully operational upon start-up of boilers #1 and #2. [ME DEP, Chapter 117]
 - B. The COMS shall be maintained and operated according to the following:
 1. The COMS required by this license shall be the primary means of demonstrating compliance with emission standards set by this Order, statute, state or federal regulation, as applicable. [ME DEP, Chapter 140, BPT]
 2. Performance Specifications
All COMS shall meet the sampling and performance criteria specified in 40 CFR Part 51 Appendix P, and shall be operated in accordance with 40 CFR Part 60 Appendix F and Chapter 117 of the Department's regulations. [ME DEP, Chapter 117]
 - a. conduct relative accuracy testing (RATA) and/or performance audits in accordance with Chapter 117 of the Department's regulations.
 - b. develop and maintain an updated quality assurance plan for all COMS in accordance with 40 CFR Part 60 Appendix F and Chapter 117 of the Department's regulations.

3. Recordkeeping

For all of the continuous opacity monitoring (COMS) and recording required by this license, the licensee shall maintain records of the most current six year period and the records shall include: [ME DEP, Chapter 117]

- a. documentation which shows monitor operational status during all source operating time, including specifics for calibration and audits; and
- b. a complete data set of all monitored parameters as specified in this license. All parameter records shall be made available to the Bureau of Air Quality upon request.
- c. for all COMS, the records shall include:
 1. documentation that all COMS are continuously accurate, reliable and operated in accordance with Chapter 117, 40 CFR Part 51 Appendix P and 40 CFR Part 60 Appendices B and F;
 2. records of all measurements, performance evaluations, calibration checks, and maintenance or adjustments for each COMS as required by 40 CFR Part 51 Appendix P.

4. Quarterly Reporting

The licensee shall submit a quarterly report to the Bureau of Air Quality within 30 days after the end of each calendar quarter, detailing the following for the COMS required by this license: [ME DEP, Chapter 117]

- a. all control equipment downtime and malfunctions;
- b. all COMS downtime and malfunctions;
- c. all parameter monitor downtime and malfunctions;
- d. all excess events of emission and operational limitations set by this Order, Statute, state or federal regulations, as appropriate. The following information shall be reported for each excess event:
 1. standard exceeded;
 2. date, time, and duration of excess event;
 3. maximum and average values of the excess event, reported in the units of the applicable standard, and copies of the pertinent strip charts and printouts when requested;
 4. a description of what caused the excess event;
 5. the strategy employed to minimize the excess event, and
 6. the strategy employed to prevent occurrence.
- e. a report certifying there were no excess emissions, if that is the case.

(29) **Semiannual Reporting**

The licensee shall submit semiannual reports every six months to the Bureau of Air Quality. The initial semiannual report is due July 31, 2001 30 days from the end of the second calendar quarter following the date of signature of this license. [ME DEP, Chapter 140]

- A. Each semiannual report shall include a summary of the periodic monitoring required by this license.
- B. All instances of deviations from license requirements and the corrective action taken must be clearly identified and provided to the Department in summary form for each six-month interval.

(30) **Annual Compliance Certification**

The licensee shall submit an annual compliance certification to the Department in accordance with Condition (20) of this license. The initial annual compliance certification is due January 31, 2002 with the submittal of the second semiannual report after the signature date of this license. [ME DEP, Chapter 140]

(31) **Annual Emission Statement**

The licensee shall annually report to the Department, in a specified format, fuel use, operating rates, use of materials and other information necessary to accurately update the State's emission inventory. [ME DEP, Chapter 137]

- (32) The licensee is subject to the State regulations listed below.

Origin and Authority	Requirement Summary
Chapter 102	Open Burning
Chapter 109	Emergency Episode Regulation
Chapter 110	Ambient Air Quality Standard
Chapter 116	Prohibited Dispersion Techniques

- (33) The licensee is subject to all applicable requirements of 40 CFR Part 82, Subpart F (Refrigerant Control).

(34) **Certification by a Responsible Official**

All reports (including semiannual reports and annual compliance certifications) required by this license to be submitted to the Bureau of Air Quality must be signed by a responsible official. [ME DEP, Chapter 140]

Caribou Generating Station)
Aroostook County)
Caribou, Maine)
A-240-70-A-I **18**

Departmental
Findings of Fact and Order
Air Emission License
Initial Part 70 License

(35) The term of this license shall be five (5) years from the signature date below.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2001.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: March 31, 2000

Date of application acceptance: March 31, 2000

Date filed with the Board of Environmental Protection _____

This Order prepared by Stephanie C. Toothaker, Bureau of Air Quality.