Naval Computer and	**)**	**Departmental**
Telecommunications Area Master	**)**	**Findings of Fact and Order**
Station Atlantic Detachment Cutler	**)**	**Part 70 Air Emission License**
Washington County	**)**	
East Machias, Maine	**)**	
A-210-70-A-I	**)**	

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	Naval Computer and Telecommunications Area Master Station Atlantic Detachment (NCTAMS LANT DET)
LICENSE NUMBER	A-210-70-A-I
LICENSE TYPE	Initial Part 70 License
SIC CODES	9711 National Security (Federal Facility) 4911 Electrical Power Generation 3443 Oil Storage Tanks
NATURE OF BUSINESS	Naval communications; generates electricity and produces energy for space heating
FACILITY LOCATION	Route 191 Cutler, Maine
DATE OF LICENSE ISSUANCE	January 14, 2002
LICENSE EXPIRATION DATE	January 14, 2007

B. Emission Equipment

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

EMISSION UNIT ID	UNIT CAPACITY	UNIT TYPE	FUEL, % SULFUR CONTENT
GAS-B#1 (DF-01), boiler	4.0 MMBtu/hr	Fuel burning	diesel fuel, 0.5%
GAS-B#2 (DF-02), boiler	8.4 MMBtu/hr	Fuel burning	diesel fuel, 0.5%
GAS-B#3 (DF-04), boiler	1.2 MMBtu/hr	Fuel burning	diesel fuel, 0.5%
VLF-B#15 (DF-08), boiler	2.2 MMBtu/hr	Fuel burning	diesel fuel, 0.5%
VLF-D#1 (DIE-01), Stationary Internal Combustion Engine (SICE)	2750 kW	Electrical generation	diesel fuel, 0.05%
VLF-D#2 (DIE-02), SICE	3000 kW	Electrical generation	diesel fuel, 0.05%

VLF-D#3 (DIE-03), SICE	3000 kW	Electrical generation	diesel fuel, 0.05%
VLF-D#4 (DIE-04), SICE	3000 kW	Electrical generation	diesel fuel, 0.05%
VLF-D#5 (DIE-05), SICE	3000 kW	Electrical generation	diesel fuel, 0.05%
VLF-D#6 (DIE-06), SICE	750 kW	Electrical generation	diesel fuel, 0.05%
GAS-D#5 (DIE-07), SICE	620 kW	Electrical generation	diesel fuel, 0.05%
GAS-D#6 (DIE-08), SICE	1000 kW	Electrical generation	diesel fuel, 0.05%
DIE-09, SICE	120 kW	Electrical generation	diesel fuel, 0.05%
VLF-B#6 (WDF-01), boiler	6.4 MMBtu/hr	Fuel burning	diesel fuel, 0.05% and waste oil
OB-01	-	Open Burning	grass, weeds
OB-02	-	Open Burning	construction debris
U-02	-	Underground Storage Tank	unleaded gasoline
SLV-01	-	Parts Washers	solvents
FUG-01	-	Fugitive Emissions, roadways	paved and unpaved roads

NCTAMS LANT DET 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.

C. Application Classification

The application for NCTAMS LANT DET 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

NCTAMS LANT DET is licensed to operate emission sources associated with their naval computer and communications center in Cutler, Maine. The license includes two sites: the General Administration Site (North Site) which includes the General Administration Area and the High Frequency (HF) Antenna Array Area; and the Very Low Frequency (VLF) Antenna Array Site (South Site) which includes the VLF Power Plant and the VLF Transmitter Area. NCTAMS LANT DET is an active Naval Computer and Telecommunications Station, which is staffed by civilian government workers for the operation of VLF and HF transmitters. NCTAMS LANT DET provides VLF and HF communications to the operating forces of the Atlantic Fleet and Northeast Region Shore Commands.

NCTAMS LANT DET generates electricity from diesel engines and produces energy for space heating requirements.

Site	Equipment
General Administration	GAS-B#1 (DF-01), Boiler #1
	GAS-B#2 (DF-02), Boiler #2
	GAS-B#3 (DF-04), Boiler #3
	GAS-D#5 (DIE-07), SICE #7
	GAS-D#6 (DIE-08), SICE #8
VLF Antenna Array	
	VLF-B#6 (WDF-01), Boiler #6
	VLF-B#15 (DF-08), Boiler #15
	VLF-D#1 (DIE-01), SICE #1
	VLF-D#2 (DIE-02), SICE #2
	VLF-D#3 (DIE-03), SICE #3
	VLF-D#4 (DIE-04), SICE #4
	VLF-D#5 (DIE-05), SICE #5
	VLF-D#6 (DIE-06), SICE #6
	DIE-09

NCTAMS LANT DET accepts streamlining for sulfur content as specified below for each unit.

B. Streamlining

Opacity

NCTAMS LANT DET accepts streamlining for opacity requirements. MEDEP Chapter 101 and Best Practical Treatment (BPT) requirements are applicable. Only the more stringent BPT requirements are included in this license.

Sulfur Dioxide

NCTAMS LANT DET accepts streamlining for sulfur dioxide requirements. MEDEP Chapter 106 is applicable for all diesel-firing units. Only the more stringent BPT sulfur dioxide limit is included in this license.

C. <u>GAS-B#1 (Boiler #1)</u>

GAS-B#1 was manufactured by H.B. Smith with a maximum design heat input of 4.0 MMBtu/hr firing diesel fuel, with a sulfur content not to exceed 0.5% by weight. The boiler was manufactured in 1985 and installed in 1986. The boiler was installed prior to the New Source Performance Standards (NSPS) Subpart Dc applicability date, and is also below the minimum threshold of 10 MMBtu/hr, and is therefore not subject to NSPS. Potential to emit for NO_X is less than 10.0 tons

per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 27 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based upon AP-42 factors dated 9/98 for fuel oil combustion.

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.

D. GAS-B#2 (Boiler #2)

GAS-B#2 was manufactured by Frederick Boiler Company with a maximum design heat input of 8.4 MMBtu/hr diesel fuel, with a sulfur content not to exceed 0.5% by weight. The boiler was manufactured in 1959 and was installed in 1960. The boiler was installed prior to NSPS Subpart Dc applicability date, and is also below the minimum threshold of 10 MMBtu/hr, and is therefore not subject to NSPS. Potential to emit for NO_X is less than 10.0 tons per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 27 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, NO_X, CO and VOC are based upon AP-42 factors dated 9/98 for fuel oil combustion.

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.

E. GAS-B#3 (Boiler #3)

GAS-B#3 is a model number WOU 41-6, manufactured by Crane with a maximum design heat input of 2.2 MMBtu/hr firing diesel fuel, with a sulfur content not to exceed 0.5% by weight. The boiler was manufactured in 1984, and was installed in 1985. The boiler was installed prior to NSPS Subpart Dc applicability date, and is also below the minimum threshold of 10 MMBtu/hr, and is therefore not subject to NSPS. Potential to emit for NO_X is less than 10.0 tons per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 34.3 ft stack. Emission rates for PM, PM_{10}, SO_2, NO_X, CO and VOC are based upon AP-42 factors dated 9/98 for fuel oil combustion.

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.

F. VLF-B#6 (Boiler #6)

VLF-B#6 was manufactured by Kewanee Manufacturing with a maximum design heat input capacity of 6.4 MMBtu/hr firing diesel fuel with a sulfur content not to exceed 0.05% by weight, and waste oil. The boiler was manufactured in 1996 and was installed in 1997. The boiler is below the minimum NSPS Subpart Dc threshold of 10 MMBtu/hr, and is therefore not subject to NSPS. Potential to emit for NO_X is less than 10.0 tons per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 45.4 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, NO_X, CO and VOC are based upon AP-42 factors dated 9/98 for fuel oil combustion.

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.

G. VLF-B#15 (Boiler #15)

VLF-B#15 was manufactured by Weil-McLean with a maximum design heat input capacity of 2.2 MMBtu/hr firing diesel fuel, with a sulfur content not to exceed 0.5% by weight. The boiler was manufactured and installed in 2000. The boiler is below the minimum threshold of 10 MMBtu/hr, and is therefore not subject to NSPS. Potential to emit for NO_X is less than 10.0 tons per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 19.6 ft stack. Emission rates for PM, PM_{10}, SO_2, NO_X, CO and VOC are based upon AP-42 factors dated 9/98 for fuel oil combustion.

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.

H. VLF-D#1 (SICE #1)

VLF-D#1 was manufactured by Hamilton with a maximum input rating of 2750 kW firing diesel fuel with a sulfur content not to exceed 0.05% by weight. The engine was manufactured in 1959 and was installed in 1960. Emissions exit through a 56.5 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based upon previous AP-42 factors dated 10/96 for large stationary internal combustion engines. NO_X emission rates are considered to be meeting NO_X RACT requirements.

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.

I. VLF-D#2 (SICE #2), VLF-D#3 (SICE #3), VLF-D#4 (SICE #4) and VLF-D#5 (SICE #5)

VLF-D#2, VLF-D#3, VLF-D#4 and VLF-D#5 are identical units – model number LSV 16 GDT manufactured by Cooper-Bessemer in 1975, and installed in 1976. Each unit has a maximum input rating of 3000 kW firing diesel fuel with a sulfur content not to exceed 0.05% by weight. Each of the engines is maintained with ignition timing retard for NO_X emissions control. Emissions exit each unit through 56.5 ft stacks. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based upon AP-42 factors dated 10/96 for large stationary internal combustion engines. NO_X emission rates are considered to be meeting NO_X RACT requirements.

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.

J. VLF-D#6 (SICE #6)

VLF-D#6 was manufactured by Caterpillar in 1996, and was installed in 1997. The engine has a maximum input rating of 750 kW, and fires diesel fuel with a sulfur content not to exceed 0.05% by weight. Emissions exit through a 19.6 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based upon AP-42 factors dated 10/96 for large stationary internal combustion engines. NO_X emission rates are considered to be meeting NO_X RACT requirements.

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.

K. GAS-D#5 (SICE #7)

GAS-D#5 was manufactured by Fairbanks Morse in 1959, and was installed in 1960. The engine has a maximum input rating of 1000 kW, and fires diesel fuel with a sulfur content not to exceed 0.05% by weight. Emissions exit through a 45.4 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based upon AP-42 factors dated

10/96 for large stationary internal combustion engines. NO_X emission rates are considered to be meeting NO_X RACT requirements.

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.

L. GAS-D#6 (SICE #8)

GAS-D#6 was manufactured by Caterpillar in 1987, and was installed in 1988. The engine has a maximum input rating of 620 kW, and fires diesel fuel with a sulfur content not to exceed 0.05% by weight. Emissions exit through a 45.4 ft stack. Emission rates for PM and PM_{10} are based upon MEDEP Chapter 103. Emission rates for SO_2, CO and VOC are based AP-42 factors dated 10/96 for large stationary internal combustion engines. NO_X emission rates are considered to be meeting NO_X RACT requirements.

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.

M. DIE-09 (SICE #9)

DIE-09 was manufactured by Caterpillar in 1987, and was installed in 1988. The engine has a maximum input rating of 120 kW, and fires diesel fuel with a sulfur content not to exceed 0.05% by weight. Potential to emit for NO_X is less than 10.0 tons per year, therefore this unit is exempt from NO_X RACT requirements. Emissions exit through a 4 ft stack. Emission rates for PM, PM_{10}, NO_X, SO_2, CO and VOC are based upon AP-42 factors dated 10/96 for diesel industrial engines. NO_X emission rates are based upon NO_X RACT requirements.

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.

N. U-02, Gasoline Storage

U-02 is an underground storage tank for unleaded gasoline, with a maximum holding capacity of 6,000 gallons. U-02 currently has an annual throughput of approximately 21,000 gallons. This gives an approximate throughput of 1750 gallons per month, which is less than the initial applicability threshold of 10,000 gallons per month. Therefore, U-02 is subject to MEDEP Chapter 118, Stage I,

Sections 3(A) and 9(B). Section 3(A) requires that a submerged fill pipe extend into the stationary gasoline storage tank to within 6 inches of the bottom of the tank. Section 9(B) requires that NCTAMS LANT DET shall maintain on its premises records of gasoline throughput which will allow the monthly and annual throughput to be determined. Should the monthly or annual throughput ever exceed the initial applicability threshold, NCTAMS LANT DET shall notify the Department of its applicability within 30 days.

Periodic Monitoring

Periodic monitoring shall consist of recordkeeping, which includes records of annual throughput.

O. Degreaser Unit

The four degreaser units were manufactured and installed in 1994 and each has a design capacity of 30 gallons, using diesel fuel as a solvent.

Periodic monitoring

Periodic monitoring for the degreaser units shall consist of recordkeeping including records of solvent added and removed.

P. Facility Emissions

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

Pollutant	Tons/Year
PM	40.7
PM_{10}	40.7
SO_2	36.4
NO_X	768.0
CO	147.8
VOC	60.1

III. AIR QUALITY ANALYSIS

Ambient air quality analyses performed in September 1996 and February 1998 demonstrate that emissions from the facility, in conjunction with other sources, do not violate ambient air quality standards. The ambient air quality analysis can be found in Air Emission License A-210-71-H-A, and was updated in Air Emission License A-210-71-J-M. An additional ambient air quality analysis is not required for this Initial Part 70 License.

ORDER

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

- 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-210-70-A-I pursuant to MEDEP Chapter 140 and the pre-construction permitting requirements of MEDEP Chapter 115 and subject to the standard and special conditions below.

All federally enforceable and State-only enforceable conditions in existing air licenses previously issued to NCTAMS LANT DET pursuant to the Department's pre-construction permitting requirements in Chapters 108 or 115 have been incorporated into this Part 70 license, except for such conditions that MEDEP has determined are obsolete, extraneous or otherwise environmentally insignificant, as explained in the Findings of Fact accompanying this permit. As such the conditions in this license supercede all previously issued air license conditions.

Federally enforceable conditions in this Part 70 license must be changed pursuant to the applicable requirements in Chapter 115 for making such changes and pursuant to the applicable requirements in Chapter 140.

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

Standard Statements

(1) 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;

(2) The Part 70 license does not convey any property rights of any sort, or any exclusive privilege;

(3) All terms and conditions are enforceable by EPA and citizens under the CAA unless specifically designated as state enforceable.

(4) 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;

(5) 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.

(6) 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.

(7) 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 a 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 a 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 emissions standards or other terms or 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.

(8) 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.

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 and this license (Title 38 MRSA §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 140;

(3) 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;

(4) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 MRSA §353.

(5) 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;

(6) 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. The records shall be submitted to the Department upon written request or in accordance with other provisions of this license;

(7) 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.

(8) 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 emission testing; and

(c) submit a written report to the Department within thirty (30) days from date of test completion.

(9) 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 an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.

(10) 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.

a. The licensee shall notify the Commissioner within 48 hours of a violation in emission standards and/or a malfunction or breakdown in any component part that causes a violation of any emission standard, and shall report the probable cause, corrective action, and any excess emissions in the units of the applicable emission limitation;

b. The licensee shall submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component part causes a violation of any emission standard, together with any exemption requests.

Pursuant to 38 MRSA § 349(9), the Commissioner may exempt from civil penalty an air emission in excess of license limitations if the emission occurs during start-up or shutdown or results exclusively from an unavoidable malfunction entirely beyond the control of the licensee and the licensee has taken all reasonable steps to minimize or prevent any emission and takes corrective action as soon as possible. There may be no exemption if the malfunction is caused, entirely or in part, by poor maintenance, careless operation, poor design or any other reasonably preventable condition or preventable equipment breakdown. The burden of proof is on the licensee seeking the exemption under this subsection.

c. All other deviations shall be reported to the Department in the facility's semiannual report.

(11) 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.

(12) 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.

(13) The licensee shall submit a compliance certification to the Department and EPA at least annually, or more frequently if specified in the applicable requirement or 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

(e) Such other facts as the Department may require to determine the compliance status of the source;

The compliance certification for the Department shall be sent to the compliance inspector for the appropriate regional office (listed on the footer of the first page of this license), and the EPA copy shall be sent to the following address:

EPA
One Congress Street
Suite 1100, Mail Code: CAP
Boston, MA 02114-2023

Specific Conditions

(14) Boilers – GAS-B#1, GAS-B#2, GAS-B#3, VLF-B#6, and VLF-B#15

A. NCTAMS LANT DET is licensed to operate boilers GAS-B#1 (4.0 MMBtu/hr); GAS-B#2 (8.4 MMBtu/hr); GAS-B#3 (2.2 MMBtu/hr) and VLF-B#15 (1.8 MMBtu/hr), which are licensed to fire diesel heating fuel, with a sulfur content not to exceed 0.5% by weight.
[MEDEP Chapter 140, BPT]

B. NCTAMS LANT DET is also licensed to operate boiler VLF-B#6 (6.4 MMBtu/hr), which is licensed to fire diesel fuel, with a sulfur content not to exceed 0.05% by weight. VLF-B#6 may also fire up to 10,000 gallons per year based on a 12-month rolling total of specification waste oil, with a sulfur content not to exceed 0.7% by weight.
[MEDEP Chapter 140, BPT]

C. The sulfur content of the diesel fuel fired shall not exceed 0.5% by weight demonstrated by purchase records from the supplier. [MEDEP Chapter 106]

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

Equipment		**PM**	**PM_{10}**	**SO_2**	**NO_X**	**CO**	**VOC**
GAS-B#1	lb/MMBtu	0.12	-	-	-	-	-
	lb/hr	0.48	0.48	2.08	0.76	0.15	0.01
GAS-B#2	lb/MMBtu	0.12	-	-	-	-	-
	lb/hr	1.01	1.01	4.36	1.23	0.31	0.03
GAS-B#3	lb/hr	0.04	0.04	1.15	0.32	0.09	0.01
VLF-B#6	lb/MMBtu	0.12	-	-	-	-	-
	lb/hr	0.77	0.77	4.53	0.93	0.24	0.02
VLF-B#15	lb/hr	0.03	0.03	0.94	0.26	0.07	0.01

NOTE: 1. Lb/hr limits are Enforceable by State-only.
2. PM lb/MMBtu limit based upon MEDEP Chapter 103.

E. NCTAMS LANT DET shall operate each boiler such that the visible emissions from each stack does not exceed 20% opacity on a six-minute block average basis. [MEDEP Chapter 140, BPT]

F. NCTAMS LANT DET shall maintain records of annual fuel use indicating the quantity of fuel consumed (gallons), and the percent (%) sulfur content of the fuel by weight, demonstrated by purchase records from the supplier. [MEDEP Chapter 140, BPT]

G. NCTAMS LANT DET shall not exceed an annual diesel (with 0.5% sulfur content) fuel cap of 780,087 gallons per year based on a 12-month rolling total, demonstrated by fuel use records to be maintained on a monthly basis, in addition to a 12-month rolling total. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

H. VLF-B#6 (Boiler #6) shall keep records of all specification waste oil fired in VLF-D#6, including annual certification of specification waste oil sulfur content. The records shall be made available to the Department upon request. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

(15) Stationary Internal Combustion Engines–GAS-D#5, GAS-D#6, VLF-D#1, VLF-D#2, VLF-D#3, VLF-D#4, VLF-D#5, VLF-D#6 and DIE-09

A. NCTAMS LANT DET is licensed to operate engines GAS-D#5 (620 kW), GAS-D#6 (1000 kW), VLF-D#1 (2750 kW), VLF-D#2 (3000 kW), VLF-D#3 (3000 kW), VLF-D#4 (3000 kW), VLF-D#5 (3000 kW), VLF-D#6 (750 kW) and DIE-09 (120 kW), which are licensed to fire diesel fuel, with a sulfur content not to exceed 0.05% by weight. [MEDEP Chapter 140, BPT]

B. The sulfur content of the diesel fuel fired shall not exceed 0.05% by weight demonstrated by purchase records from the supplier. [MEDEP Chapter 140, BPT]

C. NCTAMS LANT DET shall only operate four of the units VLF-D#2, #3, #4, #5 and #6 at any time (out of the maximum five) under normal operating scenarios. However, NCTAMS LANT DET may operate all five of the units for short periods of time for emergency purposes (i.e., deicing) for no more than 500 hours per year. NCTAMS LANT DET shall record the time in hours that the units operate in this emergency mode. [MEDEP Chapter 140, BPT]

D. Emissions from each engine shall not exceed the following limits:

Equipment		PM	PM_{10}	SO_2	NO_X	CO	VOC
GAS-D#5	lb/MMBtu	0.20	-	-	4.10	-	-
	lb/hr	1.97	1.97	0.49	40.42	8.33	3.43
GAS-D#6	lb/MMBtu	0.20	-	-	4.10	-	-
	lb/hr	1.22	1.22	0.30	25.04	5.19	2.14
VLF-D#1	lb/MMBtu	0.20	-	-	4.10	-	-
	lb/hr	5.38	5.38	1.36	111.17	22.87	9.42
VLF-D#2	lb/MMBtu	0.20	-	-	4.50	-	-
	lb/hr	5.86	5.86	1.47	133.09	24.91	10.26
VLF-D#3	lb/MMBtu	0.20	-	-	4.50	-	-
	lb/hr	5.86	5.86	1.47	133.09	24.91	10.26
VLF-D#4	lb/MMBtu	0.20	-	-	4.50	-	-
	lb/hr	5.86	5.86	1.47	133.09	24.91	10.26
VLF-D#5	lb/MMBtu	0.20	-	-	4.50	-	-
	lb/hr	5.86	5.86	1.47	133.09	24.91	10.26
VLF-D#6	lb/MMBtu	0.20	-	-	4.10	-	-
	lb/hr	1.48	1.48	0.37	30.33	6.21	2.56
DIE-09	lb/hr	0.38	0.38	0.07	3.84	1.14	0.42

NOTE: 1. Lb/hr limits are Enforceable by State-only.

E. NCTAMS LANT DET shall operate each engine such that the visible emissions from each stack shall not exceed 20% opacity on a six-minute block average basis, except for no more than 2 six-minute block averages in any three-hour period. [MEDEP Chapter 101]

F. NCTAMS LANT DET shall maintain records of annual fuel use indicating the quantity of fuel consumed (gallons), and the percent (%) sulfur content of the fuel by weight, demonstrated by purchase records from the supplier. [MEDEP Chapter 140, BPT]

G. NCTAMS LANT DET shall not exceed an annual low-sulfur diesel (0.05% sulfur or less) fuel cap of 2,504,221 gallons per year based on a 12-month rolling total, demonstrated by fuel use records to be maintained on a monthly basis, in addition to a 12-month rolling total. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

H. NCTAMS LANT DET shall not fire more than 133,000 gallons per year of low-sulfur diesel fuel in VLF-D#6, based on a 12-month rolling total. NAVCOMTELSTA shall maintain records demonstrating hours of operation

and fuel consumption for VLF-D#6. [MEDEP Chapter 140, BPT] **Enforceable by State-only**

I. NCTAMS LANT DET shall utilize a portable NOx monitor to measure once per calendar month the NOx emissions from each SICE unit. The NOx monitor shall be operated and maintained according to manufacturer's specifications, and first use of the monitor shall begin no later than July 31st, 2002.

(16) NCTAMS LANT DET shall comply with the following NO_X RACT requirements: [MEDEP Chapter 138]

a. NCTAMS LANT DET shall not exceed the following emission limits:

General Administration Site Emission Limits

Equipment	NO_X lb/MMBtu	NO_X lb/hr
GAS-B#1	-	0.58
GAS-B#2	-	1.23
GAS-B#3	-	0.32
GAS-D#5	3.20	31.36
GAS-D#6	3.20	19.52

VLF Antenna Array Site Emission Limits

Equipment	NO_X lb/MMBtu	NO_X lb/hr
VLF-B#6	-	0.93
VLF-B#15	-	0.26
VLF-D#1	3.20	86.08
VLF-D#2	3.20	93.76
VLF-D#3	3.20	93.76
VLF-D#4	3.20	93.76
VLF-D#5	3.20	93.76
VLF-D#6	3.20	23.36
DIE-09	4.41	5.30

b. For the VLF Antenna Array Site, NCTAMS LANT DET shall be limited to a maximum operating scenario. Only four of the diesel units #2, #3, #4, #5 or #6 may operate at any time (out of the maximum five), except for emergency conditions as specified in Condition (15)C.

c. For the VLF Antenna Array Site, NCTAMS LANT DET shall maintain timing retard on the units VLF-D#2, #3, #4, #5 and #6.

d. For electrical power generating purposes at the VLF Antenna Array Site, only Diesel Unit #6 (VLF-D#6) may be operated when peak plant load demand drops below 750 kW. NCTAMS LANT DET shall maintain records to document compliance with this condition and shall make the records available upon request by EPA or the Department.

(17) For the purpose of Condition (1) of this license, the Department shall use appropriate procedures to gain access to the facility in accordance with national security guidelines. [MEDEP Chapter 140]

(18) Parts Washer

NCTAMS LANT DET is subject to MEDEP Chapter 130 for the four degreaser units. Requirements include, but are not limited to: label the parts washer with operational standards, equip the washer with cover if vapor pressure >15 mmHG at 100°F, close cover when not in use, drain parts for 15 seconds or longer, shall not degrease porous material, keep drafts < 40 m/minute, repair leaks, and keep records of solvent added and removed. [MEDEP Chapter 130]

(19) Gasoline Storage Tank

A. The fill pipe shall extend within 6 inches of the bottom of the gasoline storage tank. [MEDEP Chapter 118]

B. The licensee shall maintain records of the monthly and annual throughput of gasoline. [MEDEP Chapter 118]

(20) Recordkeeping

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

(21) **Semiannual Reporting**

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

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.
[MEDEP Chapter 140]

(22) **Annual Compliance Certification**

The licensee shall submit an annual compliance certification to the Department in accordance with Condition (13) of this license. The initial annual compliance certification is due January 31st with the submittal of the second semiannual report after the signature date of this license. [MEDEP Chapter 140]

(23) **A. Annual Emission Statement**

In accordance with MEDEP Chapter 137, the licensee shall annually report to the Department the information necessary to accurately update the State's emission inventory by means of:

1) A computer program and accompanying instructions supplied by the Department; **or**
2) A written emission statement containing the information required in MEDEP Chapter 137.

Reports and questions should be directed to:

Attn: Criteria Emission Inventory Coordinator
Maine DEP
Bureau of Air Quality
17 State House Station
Augusta, ME 04333-0017

Phone: (207) 287-2437

The emission statement must be submitted by September 1.

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

Origin and Authority	**Requirement Summary**
Chapter 101	Visible Emissions Regulation
Chapter 102	Open Burning
Chapter 103	Fuel Burning Equipment Particulate Emission Standard
Chapter 105	General Process Source Particulate Emission Standard
Chapter 106	Low Sulfur Fuel Regulation
Chapter 109	Emergency Episode Regulation
Chapter 110	Ambient Air Quality Standard
Chapter 116	Prohibited Dispersion Techniques
Chapter 117	Source Surveillance
Chapter 130	Solvent Degreasers
Chapter 134	VOC RACT
Chapter 137	Emissions Statements
Chapter 138	NO_X RACT

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

(26) Certification by a Responsible Official
All reports (including quarterly reports, 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. [MEDEP Chapter 140]

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

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2002.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: October 18, 1999
Date of application acceptance: October 20, 1999

Date filed with the Board of Environmental Protection _____

This Order prepared by Elisha McVay, Bureau of Air Quality.