



TITLE V OPERATING PERMIT

Permit No: **TV-0011**
Date Issued: **May 7, 2010**

This certifies that:

Dartmouth-Hitchcock Medical Center
One Medical Center Drive
Lebanon, NH 03756

has been granted a Title V Operating Permit for the following facility and location:

Dartmouth-Hitchcock Medical Center
One Medical Center Drive
Lebanon, NH 03756

Facility ID No: **3300900003**
Application No: **09-0201**, Renewal of Title V Operating Permit

This Title V Operating Permit is hereby issued under the terms and conditions specified in the Title V application referenced above filed with the New Hampshire Department of Environmental Services under the signature of the responsible official certifying to the best of her knowledge that the statements and information therein are true, accurate and complete.

Responsible Official:
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This Permit is issued by the New Hampshire Department of Environmental Services, Air Resources Division pursuant to its authority under New Hampshire RSA 125-C and in accordance with the provisions of the Code of Federal Regulations, Title 40, Part 70.

This Permit is effective upon issuance and expires on **May 31, 2015**.

A handwritten signature in blue ink is written over a large, bold, blue "COPY" stamp.

Director, Air Resources Division

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ABBREVIATIONS

ARD	Air Resources Division
AAL	Ambient Air Limit
acf	actual cubic foot
ags	above ground surface
ASTM	American Society of Testing and Materials
Btu	British thermal units
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CAM	Compliance Assurance Monitoring
CAS	Chemical Abstracts Service
cfm	cubic feet per minute
CFR	Code of Federal Regulations
CO	Carbon Monoxide
DER	Discrete Emission Reduction
DES	New Hampshire Department of Environmental Services
Env-A	New Hampshire Code of Administrative Rules – Air Resources Division
ERC	Emission Reduction Credit
ft	foot or feet
ft ³	cubic feet
gal	gallon
HAP	Hazardous Air Pollutant
hp	horsepower
hr	hour
kW	kilowatt
lb	pound
LPG	Liquefied Petroleum Gas
MM	million
MSDS	Material Safety Data Sheet
MW	megawatt
NAAQS	National Ambient Air Quality Standard
NG	Natural Gas
NO _x	Oxides of Nitrogen
NSPS	New Source Performance Standard
PM ₁₀	Particulate Matter < 10 microns
ppm	parts per million
psig	pounds per square inch gauge
QIP	Quality Improvement Plan
RACT	Reasonably Available Control Technology
RSA	Revised Statutes Annotated
RTAP	Regulated Toxic Air Pollutant
scf	standard cubic foot
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TSP	Total Suspended Particulate
tpy	tons per consecutive 12-month period
USEPA	United States Environmental Protection Agency

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Facility Specific Title V Operating Permit Conditions

I. Facility Description of Operations

Dartmouth-Hitchcock Medical Center (DHMC) is a 1.9 million square foot health-care facility that includes Mary Hitchcock Memorial Hospital, the Hitchcock Clinic (Lebanon site) and the Dartmouth Medical School (Lebanon site). The three facilities share the same infrastructure, including three boilers and five emergency generators. These devices are operated by the Hospital on behalf of all three organizations, with operating permit requirements being administered by the Hospital Facilities Management office.

Three steam boilers at DHMC, rated at 47 MMBtu/hr each, generate steam for use in space heating, domestic water heating, humidification and process steam for sterilizers at the facility. Four emergency generators, with nameplate rating of 1250 kW each and one emergency generator, with nameplate rating of 800 kW for standby power, are available to supply electricity for DHMC in the event of a utility power failure. These generators are limited to less than 500 hours of operations per year for each unit. In addition, there are 8 boilers that are considered insignificant activities based on their size. The facility is a major source for sulfur dioxide and is therefore required to obtain a Title V Operating Permit.

II. Permitted Activities

In accordance with all of the applicable requirements identified in the Permit, the Owner or Operator is authorized to operate the devices and/or processes identified in Sections III, IV, V, and VI within the terms and conditions specified in this permit.

III. Emission Unit Identification

A. Significant Activities

The activities identified in Table 1 are subject to and regulated by this Title V Operating Permit.

Table 1 - Significant Activities			
Emission Unit ID	Description of Emission Unit	Installation Date	Maximum Design Capacity and Permitted Fuel Types¹
EU01	Cleaver Brooks Boiler #1 Model #DL52RH Serial #W-3500	April, 1988	47 MMBtu/hr #6 fuel oil - equivalent to 313 gal/hr #2 fuel oil – equivalent to 336 gal/hr
EU02	Cleaver Brooks Boiler #2 Model #DL52RH Serial #W-3647	April, 1988	47 MMBtu/hr #6 fuel oil - equivalent to 313 gal/hr #2 fuel oil – equivalent to 336 gal/hr
EU03	Cleaver Brooks Boiler #3 Model #DL52RH Serial #W-3501	April, 1988	47 MMBtu/hr #6 fuel oil - equivalent to 313 gal/hr #2 fuel oil – equivalent to 336 gal/hr
EU04	1250 kW Emergency Generator #1 Manufacturer: Caterpillar Model #3512 STD Serial #24702958	1988	12.82 MMBtu/hr #2 fuel oil – equivalent to 91.6 gals/hr
EU05	1250 kW Emergency Generator #2 Manufacturer: Caterpillar Model #3512 STD	1988	12.82 MMBtu/hr #2 fuel oil – equivalent to 91.6 gals/hr

¹ The hourly fuel rates presented in Table 1 are set assuming a heating value of 150,000 Btu/gal for #6 fuel oil, 140,000 Btu/gal for #2 fuel oil and 94,000 Btu/gal for propane (LPG).

Table 1 - Significant Activities			
Emission Unit ID	Description of Emission Unit	Installation Date	Maximum Design Capacity and Permitted Fuel Types¹
EU06	Serial #24702956 1250 kW Emergency Generator #3 Manufacturer: Caterpillar Model #3512 STD Serial #24702950	1988	12.82 MMBtu/hr #2 fuel oil – equivalent to 91.6 gals/hr
EU07	1250 kW Emergency Generator #4 Manufacturer: Caterpillar Model #3512 STD Serial #24702954	1988	12.82 MMBtu/hr #2 fuel oil – equivalent to 91.6 gals/hr
EU08	800 kW Emergency Generator Manufacturer: Caterpillar Model #3508 Serial #G7AO2816	November, 2008	8.29 MMBtu/hr #2 fuel oil – equivalent to 59.2 gals/hr

B. Stack Criteria

- A. The following devices at the Facility shall have exhaust stacks that discharge vertically, without obstruction, and meet the criteria in Table 2:

Table 2 - Stack Criteria			
Stack #	Emission Unit #	Minimum Height (feet above ground surface)	Maximum Exit Diameter (feet)
Stack 1	EU01, EU02 & EU03	150	4.67

- B. Stack criteria described in Table 2 may be changed without prior approval from the Division provided that:
1. An air quality impact analysis is performed either by the facility or the Division (if requested by the facility in writing) in accordance with Env-A 606, Air Pollution Dispersion Modeling Impact Analysis Requirements, and the “Guidance and Procedure for Performing Air Quality Impact Modeling in New Hampshire,” and
 2. The analysis demonstrates that emissions from the modified stack will continue to comply with all applicable emission limitations and ambient air limits.
- C. All air modeling data and analyses shall be kept on file at the facility for review by the Division upon request.
- D. The Owner or Operator shall provide written notification to the Division of the stack change within 15 days after making the change. Such notification shall include:
1. A description of the change; and
 2. The date on which the change occurred.

IV. Insignificant Activities Identification

All activities at this facility, which meet the criteria identified in Env-A 609.04, shall be considered insignificant activities. Emissions from the insignificant activities shall be included in the total facility emissions for the emission-based fee calculation described in Section XXIII of this Permit.

V. Exempt Activities Identification

All activities identified in Env-A 609.03(c) shall be considered exempt activities and shall not be included in the total facility emissions for the emission-based fee calculation described in Section XXIII of this permit.

VI. Pollution Control Equipment Identification

There are no add-on pollution control devices at this facility.

VII. Alternative Operating Scenarios

No alternative operating scenarios were identified for this permit.

VIII. Applicable Requirements

A. State-only Enforceable Operational and Emission Limitations

The Owner or Operator shall be subject to the state-only² operational and emission limitations identified in Table 3 below:

Table 3 - State-only Enforceable Operational and Emission Limitations			
Item #	Applicable Requirements	Applicable Emission Unit	Regulatory Citation
1.	<p><u>Activities Exempt from Visible Emission Standards</u></p> <p>The average opacity shall be allowed to be in excess of those standards specified in Env-A 2002.02 for one period of 6 continuous minutes in any 60 minute period during startup, shutdown, malfunction, soot blowing, grate cleaning, and cleaning of fires.</p>	Facility-wide	Env-A 2002.04(c) (effective 4-23-2005)
2.	<p><u>Activities Exempt from Visible Emission Standards</u></p> <p>Exceedances of the opacity standard in Env-A 2002 shall not be considered violations if the Owner or Operator demonstrates to DES that such exceedances:</p> <ul style="list-style-type: none"> a. Were the result of the adherence to good boiler operating practices which, in the long term, result in the most efficient or safe operation of the boiler; b. Occurred during periods of cold startup of a boiler over a continuous period of time resulting in efficient heat-up and stabilization of its operation and the expeditious achievement of normal operation of the unit; c. Occurred during periods of continuous soot blowing of the entire boiler tube section over regular time intervals as determined by the operator and in conformance with good boiler operating practice; 	EU01, EU02 & EU03	Env-A 2002.04(d), (e), and (f) (effective 4-23-2005)

² The term “state-only requirement” is used to refer to those requirements that are not federally enforceable but are state requirements as defined in Env-A 101.184.

Table 3 - State-only Enforceable Operational and Emission Limitations			
Item #	Applicable Requirements	Applicable Emission Unit	Regulatory Citation
	<p style="text-align: center;">or</p> <p>d. Were the result of the occurrence of an unplanned incident in which the opacity exceedance was beyond the control of the operator and in response to such incident, the operator took appropriate steps in conformance with good boiler operating practice to eliminate the excess opacity as quickly as possible.</p>		

B. Federally Enforceable Operational and Emission Limitations

The Owner or Operator shall be subject to the Federally enforceable operational and emission limitations identified in Table 4 below:

Table 4 - Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Citation
1.	The Facility shall comply with the National Ambient Air Quality Standards (NAAQS) and the applicable requirements of RSA 125-C:11 and Env-A 606.04.	Facility Wide	RSA 125-C:11 & Env-A 606.04
2.	<p><u>Maximum Sulfur Content Allowable in Liquid Fuels</u></p> <p>The sulfur content of No. 6 fuel oil shall not exceed 1.0 percent sulfur by weight.</p>	EU01, EU02 & EU03	TP-B-0504
3.	<p><u>Maximum Sulfur Content Allowable in Liquid Fuels</u></p> <p>The sulfur content of No. 2 fuel oil shall not exceed 0.4 percent sulfur by weight.</p>	EU01, EU02, EU03, EU04, EU05, EU06 & EU07	Env-A 1604.01 (effective 4-23-2005)
4.	<p><u>Maximum Sulfur Content Allowable in Liquid Fuels</u></p> <p>a. The sulfur content of diesel fuel burned in the emergency generator (EU08) shall not exceed 500 ppm (0.05 percent sulfur by weight); and</p> <p>b. After October 1, 2010, the sulfur content of diesel fuel burned in the emergency generator (EU08) shall not exceed 15 ppm (0.0015 percent sulfur by weight).</p>	EU08	40 CFR 60.4207 (Subpart III)
5.	<p><u>Fuel Usage Limitations</u></p> <p>In order to meet the NAAQS for sulfur dioxide, the maximum usage #6 fuel oil for the three boilers combined shall be limited to 15,000 gallons over any consecutive 24-hour period.</p>	EU01, EU02 & EU03	TP-B-0504
6.	<p><u>Fuel Usage Limitations</u></p> <p>Fuel consumption (#2, #6 or both) for all three boilers combined shall be limited to 3,000,000 gallons during any consecutive 12-month period.</p>	EU01, EU02 & EU03	PO-B-1700, 1701 & 1702
7.	<p><u>Visible Emission Standard for Fuel Burning Devices Installed After May 13, 1970</u></p> <p>The average opacity from fuel burning devices installed after May 13, 1970 shall not exceed 20 percent for any continuous 6-minute period.</p>	Facility-wide	Env-A 2002.02 (effective 4-23-2005)

Table 4 - Federally Enforceable Operational and Emission Limitations

Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Citation
8.	<p><u>Particulate Emission Standards for Fuel Burning Devices Installed on or After January 1, 1985</u></p> <p>The particulate matter emissions from fuel burning devices installed on or after January 1, 1985 shall not exceed 0.30 lb/MMBtu.</p>	Facility-wide	Env-A 2002.08 effective 4-23-2005 (formerly Env-A 1202)
9.	<p><u>Emergency Generators</u></p> <p>The emergency generator shall only operate:</p> <ol style="list-style-type: none"> a. As a mechanical or electrical power source when the primary power source for the Facility has been lost during an emergency such as a power outage; b. During normal maintenance and testing as recommended by the manufacturer; or c. During periods in which ISO New England (ISO-NE) declares the implementation of Action 12 of ISO-NE Operating Procedure 4, Action During a Capacity Deficiency. 	EU04, EU05, EU06, EU07 & EU08	Env-A 101.661
10.	<p><u>Emergency Generators</u></p> <p>Each emergency generator shall be limited to 500 hours of operation during any consecutive 12-month period.</p>	EU04, EU05, EU06 & EU07	Env-A 1211.11(b)
11.	<p><u>Emergency Generators</u></p> <p>The emergency generator shall be limited to 100 hours of operation during any consecutive 12-month period for maintenance checks and readiness testing and total operation shall be limited to 500 hours of operation during any consecutive 12-month period.</p>	EU08	40 CFR 60.4211(e) (Subpart III) & Env-A 1211.11(b)
12.	<p><u>Emission Standards and Control Options for Emergency Generators</u></p> <p>The Owner or Operator shall set and maintain the ignition timing of the engine 4 degrees retarded relative to standard timing, provided that the ignition timing shall not be retarded beyond the point that:</p> <ol style="list-style-type: none"> a. The carbon monoxide (CO) emission concentration increases beyond 100 pmvd, corrected to 15% oxygen; b. The turbocharger speed is increased beyond the maximum operating speed recommended by the manufacturer; c. The exhaust port temperature increases beyond the manufacturer's recommended maximum operating temperature; or d. The opacity of the emissions from the engine exhaust is equal to or greater than 20% opacity; 	EU08	Env-A 1211.11(d)
13.	<p><u>Accidental Release Program Requirements</u></p> <p>The quantities of regulated chemicals stored at the facility are less than the applicable threshold quantities established in 40 CFR 68.130. The facility is subject to the Purpose and General Duty clause of the 1990 Clean Air Act, Section 112(r)(1). General Duty includes the following responsibilities:</p> <ol style="list-style-type: none"> a. Identify potential hazards which result from such releases using appropriate hazard assessment techniques; b. Design and maintain a safe facility; c. Take steps necessary to prevent releases; and 	Facility wide	CAAA 112(r)(1)

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Table 4 - Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Citation
	d. Minimize the consequences of accidental releases that do occur.		

C. Emission Reductions Trading Requirements

The Owner or Operator did not request emissions reductions trading in its operating permit application. At this point, DES has not included any permit terms authorizing emissions trading in this permit. All emission reduction trading, must be authorized under the applicable requirements of either Env-A 3000 *Emissions Reductions Credits Trading Program*, or Env-A 3100 *Discrete Emissions Reductions Trading Program* and 42 U.S.C §§7401 et seq. (the “Act”), and must be provided for in this permit.

D. Monitoring and Testing Requirements

The Owner or Operator is subject to the monitoring and testing requirements as contained in Table 5 below:

Table 5 - Monitoring/Testing Requirements					
Item #	Parameter	Method of Compliance	Frequency of Method	Applicable Emission Unit	Regulatory Citation
1.	Sulfur Content of Liquid Fuels	Conduct testing in accordance with appropriate ASTM test methods or retain delivery tickets in accordance with Table 6, Item #5 in order to demonstrate compliance with the sulfur content limitation provisions specified in this permit for liquid fuels.	For each delivery of fuel oil to the facility	Facility Wide	Env-A 806.02 & Env-A 806.05 (effective 04-27-2007)
2.	Fuel Consumption	A flow meter shall be continuously operated on the fuel inlet line to EU01, EU02 and EU03 to measure the total amount of fuel oil consumption by each boiler.	Daily	EU01, EU02 & EU03	40 CFR 70.6 (a)(3)(i)(B)
3.	Periodic Monitoring	Calibration of the fuel oil metering devices following manufacturer’s recommended procedures shall occur at least once annually or in a manner and/or frequency approved by the Division.	Annually	EU01, EU02 & EU03	40 CFR 70.6 (a)(3)(i)(B)
4.	NOx RACT Compliance	Before April 1 st of each year the Owner or operator shall: <ul style="list-style-type: none"> a. Perform an efficiency test using the test procedures specified in chapter 3, Combustion Efficiency Tables, Taplin, Harry, R., Fairmont Press, 1991; and b. Adjust the combustion process of the boiler in accordance with the procedures specified in chapter 5, Combustion Efficiency Tables, Taplin, Harry R., 	Annually, before April 1 st	EU01, EU02 & EU03	Env-A 1211.05(b)

Table 5 - Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Applicable Emission Unit	Regulatory Citation
		Fairmont Press, 1991.			
5.	Gaseous concentration measurements	<p>Following the performance of tuneup activities as specified in item #4 above, the Owner or Operator shall perform applicable gaseous concentration measurements for nitrogen oxides, carbon monoxide, oxygen and carbon dioxide as specified below:</p> <ol style="list-style-type: none"> a. Any of the following monitors shall be acceptable for making the gaseous concentration measurements: <ol style="list-style-type: none"> i. All analyzers meeting the specifications set forth in the applicable sections of 40 CFR 60, Appendix B, Performance Specifications 2 through 4; ii. Portable extractive monitors using an electrochemical sensor for performing the gas concentration measurement; and iii. Alternative monitors, if written technical information is provided to the division demonstrating that the analyzer in the alternative monitor is at least as accurate as the analyzer using the electrochemical sensor; b. A concentration monitor shall be operated following the operating procedures specified by the manufacturer; c. Measurements shall be taken at one minute intervals at each representative operation condition over a minimum of a 15-minute period following achievement of stable operation; d. All measurements shall be documented and averaged over the period of testing; e. Prior to and following measurement, the owner or operator shall perform, following the manufacturer's recommended procedures, 2 calibrations as follows: <ol style="list-style-type: none"> i. A calibration with a gas containing between 0% and 20% of the expected concentration of the gas being measured, based on manufacturer's data or EPA-published emission 	Annually, before April 1 st	EU01, EU02 & EU03	Env-A 803.04 effective 12-22-2004

Table 5 - Monitoring/Testing Requirements

Item #	Parameter	Method of Compliance	Frequency of Method	Applicable Emission Unit	Regulatory Citation
		<p>factors for the device; and</p> <p>iv. A calibration with a gas containing between 80% and 150% of the expected concentration of the gas being measured, based on manufacturer's data or EPA-published emission factors for the device;</p> <p>f. All calibration data shall be recorded and kept on-site;</p> <p>g. Concentration measurements shall be reported on a dry basis; and</p> <p>h. If a direct measurement is on a wet basis, the basis for the percentage moisture used and the correction calculation to dry basis shall be documented.</p>			
6.	Opacity	<p>The Owner or Operator shall make visual determinations of opacity:</p> <p>a. As specified in 40 CFR 60, Appendix A, Method 9, Visual Determination of the Opacity of Emissions from Stationary Sources; and</p> <p>b. For a period of at least 18 minutes during normal operation of the device.</p>	Annually	EU01, EU02 & EU03	Env-A 807.03 effective 10-31-2002
7.	Hours of Operation	<p>The emergency generators shall be equipped with a non-resettable hour meter.</p>	Continuous	EU04, EU05, EU06, EU07 & EU08	40 CFR 60.4209(a) (Subpart III) & Env-A 1211.11(d)(2)
8.	To Be Determined	<p>When conditions warrant, the Division may require the Owner or Operator to conduct stack testing in accordance with USEPA or other Division approved methods.</p>	Upon request by the Division	Facility Wide	RSA 125-C:6, XI

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E. Recordkeeping Requirements

The Owner or Operator shall be subject to the recordkeeping³ requirements identified in Table 6 below:

Table 6 - Applicable Recordkeeping Requirements				
Item #	Applicable Recordkeeping Requirement	Records Retention/ Frequency	Applicable Emission Unit	Regulatory Citation
1.	The Owner or Operator shall retain records of all required monitoring data, recordkeeping and reporting requirements, and support information for a period of at least 5 years from the date of origination.	Retain for a minimum of 5 years	Facility Wide	40 CFR 70.6(a)(3)(ii)(B)
2.	The Owner or Operator shall maintain records of monitoring requirements as specified in Table 5 of this Permit including: <ul style="list-style-type: none"> a. Summary of testing and/or delivery ticket certifications for sulfur content limitation provisions; and b. Summary of maintenance, calibration, and repair records of the fuel oil metering devices. 	Maintain on a continuous basis	Facility Wide	40 CFR 70.6(a)(3)(iii)(A)
3.	The Owner or Operator shall maintain records of NO _x RACT testing results for the three boilers in a permanently bound log book containing the following information: <ul style="list-style-type: none"> a. The date(s) on which: <ul style="list-style-type: none"> i. The efficiency test was conducted; and ii. The combustion process was last adjusted; b. The name(s), title and affiliation of the person(s) who: <ul style="list-style-type: none"> i. Conducted the efficiency test; and ii. Made the adjustments; c. The NO_x emission concentration, in ppmvd, corrected to 15% oxygen, after the adjustments are made; d. The CO emission concentration, in ppmvd, corrected to 15% oxygen, after the adjustments are made; and e. The opacity readings. 	Maintain on a continuous basis	EU01, EU02 & EU03	Env-A 1211.05(b)(2)
4.	<u>General Recordkeeping Requirements</u> For each fuel burning device at the facility, the Owner or Operator shall keep records of fuel utilization in accordance with the following:	Monthly	Facility Wide	Env-A 901.03 (SIP approved rule) & Env-A 903.03 (Effective 4-21-2007)

³ NH rules cited in this section as Federally Enforceable are contained in the EPA-approved State Implementation Plan (SIP), or they are awaiting EPA approval and are at least as stringent as the SIP rule. Each citation of a non-SIP rule is followed by the effective date of that rule.

Table 6 - Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirement	Records Retention/ Frequency	Applicable Emission Unit	Regulatory Citation
	<ul style="list-style-type: none"> a. Consumption; b. Fuel type; c. Viscosity (for liquid fuels); d. For No. 6 fuel oil, sulfur content in terms of percent sulfur by weight; e. For No. 2 fuel oil, documentation that the fuel meets state sulfur limits; f. Heating value (in MMBtu/gallon) of fuel; and g. Hours of operation. 			
5.	<p><u><i>No. 6 Liquid Fuel Oil Recordkeeping Requirements</i></u> In lieu of sulfur testing pursuant to Table 5, Item 1, the Owner or Operator may maintain fuel delivery tickets that contain the following information:</p> <ul style="list-style-type: none"> a. The date of delivery; b. The quantity of delivery; c. The name, address and telephone number of the company making the delivery; and d. The maximum weight percentage of sulfur. 	For each delivery of No. 6 fuel oil to the facility	EU01, EU02 & EU03	Env-A 806.05 (Effective 4-27-2007)
6.	<p><u><i>No. 2 Liquid Fuel Oil Recordkeeping Requirements</i></u> In lieu of sulfur testing pursuant to Table 5, Item 1, the Owner or Operator may maintain fuel delivery tickets that contain the following information: A written statement from the fuel supplier that the sulfur content of the fuel as delivered does not exceed state or federal standards for that fuel.</p>	For each delivery of #2 fuel oil/diesel to the facility	Facility Wide	Env-A 806.05 (Effective 4-27-2007)
7.	<p><u><i>General NO_x Recordkeeping Requirements</i></u> If the actual annual NO_x emissions from all permitted devices located at the Facility are greater than or equal to 10 tpy, then record the following information:</p> <ul style="list-style-type: none"> a) Identification of each fuel burning device; b) Operating schedule during the high ozone season (June 1 through August 31) for each fuel burning device identified in Table 6, Item 7.a, above, including: <ul style="list-style-type: none"> 1. Typical hours of operation per day; 2. Typical days of operation per calendar month; 3. Number of weeks of operation; 4. Type and amount of each fuel burned; 5. Heat input rate in MMBtu/hr; 6. Actual NO_x emissions for the calendar year and a typical high ozone day during 	Maintain Current Data	Facility Wide	Env-A 905.02 & TP-B-0555

Table 6 - Applicable Recordkeeping Requirements

Item #	Applicable Recordkeeping Requirement	Records Retention/ Frequency	Applicable Emission Unit	Regulatory Citation
	that calendar year; and 7. Emission factors and the origin of the emission factors used to calculate the NO _x emissions.			
8.	<u>Additional Recordkeeping Requirements</u> The Owner or Operator shall also maintain daily and consecutive 12-month rolling total of combined fuel oil usage in the three boilers in order to verify compliance with Items 5 and 6 in Table 4.	Daily and Consecutive 12-month rolling total	EU07	Env-A 906 (effective 4-23-1999)
9.	Maintain records of actual emissions for each significant and insignificant activity for determination of emission based fees.	Annually	Facility wide	Env-A 705.03
10.	<u>NSPS Recordkeeping Requirements for Internal Combustion Engines</u> Maintain documentation from the engine manufacturer certifying that the engine complies with the applicable emissions standards stated in 40 CFR 60 Subpart IIII.	Maintain current data	EU08	40 CFR 60.4211 (Subpart IIII)
11.	Maintain records to certify that the ignition timing of the engine has been inspected and adjusted (as specified in Table 4, Item 12) at least once every 3 years.	Once every 3 years	EU08	Env-A 1211.11(d)(4)

F. Reporting Requirements

The Owner or Operator shall be subject to the reporting requirements³ identified in Table 7 below. All emissions data submitted to the Division shall be available to the public. Claims of confidentiality for any other information required to be submitted to the Division pursuant to this permit shall be made at the time of submission in accordance with Env-A 103, *Claims of Confidentiality*.

Table 7 - Applicable Reporting Requirements

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
1.	Any report submitted to the DES and/or EPA shall include the certification of accuracy statement outlined in Section XXI.B. of this Permit and shall be signed by the responsible official.	As specified in Section XXI. B.	Facility Wide	40 CFR 70.6(c)(1)
2.	<u>Semi-annual Permit Deviation and Monitoring Report</u> The Owner or Operator shall submit a semi-annual permit	Semi-annually by July 31 st and January 31 st of	Facility Wide	40 CFR 70.6(a)(3)(iii)(A)

Table 7 - Applicable Reporting Requirements

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
	<p>deviation and monitoring report, which contains:</p> <ul style="list-style-type: none"> a. Summaries of testing and/or delivery ticket certifications for fuel sulfur content limitation provisions; b. Summaries of all maintenance, calibration, and repair records of the fuel oil metering devices; c. Summary of annual NO_x RACT testing; and d. A summary of all permit deviations that have occurred during the reporting period. 	each calendar year.		
3.	<p><u>NO_x Reporting Requirements</u></p> <p>For fuel burning devices, including boilers, and engines, the owner or operator shall submit to the Director, annually (no later than April 15th of the following year), reports of the data required by Item #7 of Table 6, including total annual quantities of all NO_x emissions. The following information shall also be included in this report:</p> <ul style="list-style-type: none"> a. A breakdown of NO_x emissions reported pursuant to Table 7, Item 5 by month; b. Annual fuel oil usage for all the three boilers combined; and c. Annual hours of operation for each emergency generator. 	Annually (no later than April 15 th of the following year)	Facility Wide	Env-A 901.09
4.	<p><u>Payment of Emission-Based Fee</u></p> <p>Annual payment of emission based fees shall be conducted in accordance with Section XXIII of this Permit.</p>	Annually (received by DES no later than April 15 th of the following year)	Significant & Insignificant Activities	Env-A 705.04
5.	<p><u>Annual Emissions Report</u></p> <p>The Owner or Operator shall submit an annual emissions report which shall include the following information:</p> <ul style="list-style-type: none"> (a) Actual calendar year emissions from each device of NO_x, CO, SO₂, TSP, and VOCs; (b) The methods used in calculating such emissions in accordance with Env-A 705.02, <i>Determination of Actual Emissions for Use in Calculating Emission-Based Fees</i>; and (c) All information recorded in accordance with Item #4 of Table 6. 	Annually (received by DES no later than April 15 th of the following year)	Facility Wide	Env-A 907.01
6.	<p>Prompt reporting of deviations from Permit requirements shall be conducted in accordance with Section XXVIII of this Permit.</p>	Prompt reporting (within 24 hours of an occurrence)	Facility Wide	40 CFR 70.6(a)(3)(iii)(B)

Table 7 - Applicable Reporting Requirements				
Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
7.	Annual compliance certification shall be submitted in accordance with Section XXI of this Permit.	Annually (no later than April 15 th of the following year)	Facility wide	40 CFR 70.6(c)(1)

IX. Requirements Currently Not Applicable

Requirements not currently applicable to the facility were not identified by the Owner or Operator.

General Title V Operating Permit Conditions

X. Issuance of a Title V Operating Permit

- A. This Permit is issued in accordance with the provisions of Env-A 609. In accordance with 40 CFR 70.6(a)(2), this Permit shall expire on the date specified on the cover page of this Permit, which shall not be later than the five (5) years after issuance of this Permit.
- B. Permit expiration terminates the Owner or Operator's right to operate the emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is **received by the Department** at least 6 months before the expiration date.

XI. Title V Operating Permit Renewal Procedures

Pursuant to Env-A 609.07(b), an application for renewal of this Permit shall be considered timely if it is **received by the Department** at least six months prior to the designated expiration date of the current Title V operating permit.

XII. Application Shield

Pursuant to Env-A 609.08, if an applicant submits a timely and complete application for the issuance or renewal of a Permit, the failure to have a Permit shall not be considered a violation of this part until the Director takes final action on the application.

XIII. Permit Shield

- A. Pursuant to Env-A 609.09(a), a permit shield shall provide that:
 - 1. For any applicable requirement or any state requirement found in the New Hampshire Rules Governing the Control of Air Pollution specifically included in this Permit, compliance with the conditions of this Permit shall be deemed compliance with said applicable requirement or said state requirement as of the date of permit issuance; and
 - 2. The Owner or Operator need not comply with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and specifically identified in Section IX of this Title V Operating Permit as not applicable to the stationary source or area source.
- B. The permit shield identified in Section XIII.A. of this Permit shall apply only to those conditions incorporated into this Permit in accordance with the provisions of Env-A

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609.09(b). It shall not apply to certain conditions as specified in Env-A 609.09(c) that may be incorporated into this Permit following permit issuance by DES.

- C. If a Title V Operating Permit and amendments thereto issued by the DES does not expressly include or exclude an applicable requirement or a state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, that applicable requirement or state requirement shall not be covered by the permit shield and the Owner or Operator shall comply with the provisions of said requirement to the extent that it applies to the Owner or Operator, or device.
- D. If DES determines that this Title V Operating Permit was issued based upon inaccurate or incomplete information provided by the applicant, any permit shield provisions in said Title V Operating Permit shall be void as to the portions of said Title V Operating Permit which are affected, directly or indirectly, by the inaccurate or incomplete information.
- E. Pursuant to Env-A 609.09(f), nothing contained in Section XIII of this Permit shall alter or affect the ability of the DES to reopen this Permit for cause in accordance with Env-A 609.19 or to exercise its summary abatement authority.
- F. Pursuant to Env-A 609.09(g), nothing contained in this section or in any Title V operating permit issued by the DES shall alter or affect the following:
 - 1. The ability of the DES to order abatement requiring immediate compliance with applicable requirements upon finding that there is an imminent and substantial endangerment to public health, welfare, or the environment;
 - 2. The state of New Hampshire's ability to bring an enforcement action pursuant to RSA 125-C:15,II;
 - 3. The provisions of section 303 of the CAA regarding emergency orders including the authority of the EPA Administrator under that section;
 - 4. 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;
 - 5. The applicable requirements of the acid rain program, consistent with section 408(a) of the CAA;
 - 6. The ability of the DES or the EPA Administrator to obtain information about a stationary source, area source, or device from the Owner or Operator pursuant to section 114 of the CAA; or
 - 7. The ability of the DES or the EPA Administrator to enter, inspect, and/or monitor a stationary source, area source, or device.

XIV. Reopening for Cause

The Director shall reopen and revise a Title V Operating Permit for cause if any of the circumstances contained in Env-A 609.19(a) exist. In all proceedings to reopen and reissue a Title V Operating Permit, the Director shall follow the provisions specified in Env-A 609.19(b) through (g).

XV. Administrative Permit Amendments

- A. Pursuant to Env-A 612.01, the Owner or Operator may implement the changes addressed in the request for an administrative permit amendment as defined in Env-A 101 immediately upon submittal of the request.

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- B. Pursuant to Env-A 612.01, the Director shall take final action on a request for an administrative permit amendment in accordance with the provisions of Env-A 612.01(b) and (c).

XVI. Operational Flexibility

- A. Pursuant to Env-A 612.02, the Owner or Operator subject to and operating under this Title V Operating Permit may make changes involving trading of emissions, off-permit changes, and section 502(b)(10) changes at the permitted stationary source or area source without filing a Title V Operating Permit application for and obtaining an amended Title V Operating Permit, provided that all of the following conditions are met, as well as conditions specified in Section XVI. B through E of this permit, as applicable. At this point, DES has not included any permit terms authorizing emissions trading in this permit.
1. The change is not a modification under any provision of Title I of the CAA;
 2. The change does not cause emissions to exceed the emissions allowable under the Title V operating permit, whether expressed therein as a rate of emissions or in terms of total emissions;
 3. The Owner or Operator has obtained any temporary permit required by Env-A 600;
 4. The Owner or Operator has provided written notification to the director and administrator of the proposed change and such written notification includes:
 - a. The date on which each proposed change will occur;
 - b. A description of each such change;
 - c. Any change in emissions that will result;
 - d. A request that the operational flexibility procedures be used; and
 - e. The signature of the responsible official, consistent with Env-A 605.04(b);
 5. The change does not exceed any emissions limitations established under any of the following:
 - a. The New Hampshire Code of Administrative Rules, Env-A 100-3800;
 - b. The CAA; or
 - c. This Title V Operating Permit; and
 6. The Owner or Operator, DES, and EPA have attached each written notice required above to their copy of this Title V Operating Permit.
- B. For changes involving the trading of emissions, the Owner or Operator must also meet the following conditions:
1. The Title V Operating Permit issued to the stationary source or area source already contains terms and conditions including all terms and conditions which determine compliance required under 40 CFR 70.6(a) and (c) and which allow for the trading of emissions increases and decreases at the permitted stationary source or area source solely for the purpose of complying with a federally-enforceable emissions cap that is established in the permit independent of otherwise applicable requirements;
 2. The Owner or Operator has included in the application for the Title V Operating Permit proposed replicable procedures and proposed permit terms which ensure

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that the emissions trades are quantifiable and federally enforceable for changes to the Title V Operating Permit which qualify under a federally- enforceable emissions cap that is established in the Title V Operating Permit independent of the otherwise applicable requirements;

3. The Director has not included in the emissions trading provision any devices for which emissions are not quantifiable or for which there are no replicable procedures to enforce emissions trades; and
 4. The written notification required above is made at least 7 days prior to the proposed change and includes a statement as to how any change in emissions will comply with the terms and conditions of the Title V Operating Permit.
- C. For off-permit changes, the Owner or Operator must also meet the following conditions:
1. Each off-permit change meets all applicable requirements and does not violate any existing permit term or condition;
 2. The written notification required above is made contemporaneously with each off-permit change, except for changes that qualify as insignificant under the provisions of Env-A 609.04;
 3. The change is not subject to any requirements under Title IV of the CAA and the change is not a Title I modification;
 4. The Owner or Operator keeps a record describing the changes made at the source which result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under this Permit, and the emissions resulting from those changes; and
 5. The written notification required above includes a list of the pollutants emitted and any applicable requirement that would apply as a result of the change.
- D. For section 502(b)(10) changes, the Owner or Operator must also meet the following conditions:
1. The written notification required above is made at least 7 days prior to the proposed change; and
 2. The written notification required above includes any permit term or condition that is no longer applicable as a result of the change.
- E. Pursuant to Env-A 612.02(f), the off-permit change and section 502(b)(10) change shall not qualify for the permit shield under Env-A 609.09.

XVII. Minor Modifications

- A. Prior to implementing a minor permit modification, the Owner or Operator shall submit a written request to the Director in accordance with the requirements of Env-A 612.05(b).
- B. The Director shall take final action on the minor permit amendment request in accordance with the provisions of Env-A 612.05(c) through (g).
- C. Pursuant to Env-A 612.05(h), the permit shield specified in Env-A 609.09 shall not apply to minor permit amendments under Section XVII. of this Permit.

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- D. Pursuant to Env-A 612.05(a), the Owner or Operator shall be subject to the provisions of RSA 125-C:15 if the change is made prior to the filing with the Director of a request for a minor permit amendment.

XVIII. Significant Permit Modifications

- A. Pursuant to Env-A 612.06, a change at the facility shall qualify as a significant permit amendment if it meets the criteria specified in Env-A 612.06(a)(1) through (5).
- B. Prior to implementing the significant permit amendment, the Owner or Operator shall submit a written request to the Director which includes all the information as referenced in Env-A 612.06(b) and (c) and shall be issued an amended Title V Operating Permit from the DES. The Owner or Operator shall be subject to the provisions of RSA 125-C:15 if a request for a significant permit amendment is not filed with the Director and/or the change is made prior to the issuance of an amended Title V Operating Permit.
- C. The Director shall take final action on the significant permit amendment in accordance with the Procedures specified in Env-A 612.06(d), (e) and (f).

XIX. Title V Operating Permit Suspension, Revocation or Nullification

- A. Pursuant to RSA 125-C:13, the Director may suspend or revoke any final permit issued hereunder if, following a hearing, the Director determines that:
1. The Owner or Operator has committed a violation of any applicable statute or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution, order or permit condition in force and applicable to it; or
 2. The emissions from any device to which this Permit applies, alone or in conjunction with other sources of the same pollutants, presents an immediate danger to the public health.
- B. The Director shall nullify any Permit if, following a hearing in accordance with RSA 541-A:30, II, a finding is made that the Permit was issued in whole or in part based upon any information proven to be intentionally false or misleading.

XX. Inspection and Entry

EPA and DES personnel shall be granted access to the facility covered by this Permit, in accordance with RSA 125-C:6,VII for the purposes of: inspecting the proposed or permitted site; investigating a complaint; and assuring compliance with any applicable requirement or state requirement found in the New Hampshire Rules Governing the Control of Air Pollution and/or conditions of any Permit issued pursuant to Chapter Env-A 600.

XXI. Certifications

- A. Compliance Certification Report

In accordance with 40 CFR 70.6(c) the Responsible Official shall certify for the previous calendar year that the facility is in compliance with the requirements of this permit. The report shall be submitted annually, no later than April 15th of the following year. The report shall be submitted to the DES and to the U.S. Environmental Protection Agency – Region I. The report shall be submitted in compliance with the submission requirements below.

In accordance with 40 CFR 70.6(c)(5), the report shall describe:

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1. The terms and conditions of the Permit that are the basis of the certification;
2. The current compliance status of the source with respect to the terms and conditions of this Permit, and whether compliance was continuous or intermittent during the reporting period;
3. The methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
4. Any additional information required by the DES to determine the compliance status of the source.

B. Certification of Accuracy Statement

All documents submitted to the DES shall contain a certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in accordance with the requirements of 40 CFR 70.5(d) and contain the following language:

"I am authorized to make this submission on behalf of the facility for which the submission is made. Based on information and belief formed after reasonable inquiry, I certify that the statements and information in the enclosed documents are to the best of my knowledge and belief true, accurate and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."

All reports submitted to DES (except those submitted as emission based fees as outlined in Section XXIII of this Permit) shall be submitted to the following address:

New Hampshire Department of Environmental Services
Air Resources Division
29 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095
ATTN: Section Supervisor, Compliance Bureau

All reports submitted to EPA shall be submitted to the following address:

EPA-New England, Region 1
5 Post Office Sq. Suite 100
Mail Code OEP05-2
Boston, MA 02109-3912

XXII. Enforcement

Any noncompliance with a permit condition constitutes a violation of RSA 125-C:15, and, as to the conditions in this permit which are federally enforceable, a violation of the Clean Air Act, 42 U.S.C. Section 7401 et seq., and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by the DES and/or EPA. Noncompliance may also be grounds for assessment of administrative, civil or criminal penalties in accordance with RSA 125-C:15 and/or the Clean Air Act. This Permit does not relieve the

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Owner or Operator from the obligation to comply with any other provisions of RSA 125-C, the New Hampshire Rules Governing the Control of Air Pollution, or the Clean Air Act, or to obtain any other necessary authorizations from other governmental agencies, or to comply with all other applicable Federal, State, or Local rules and regulations, not addressed in this Permit.

In accordance with 40 CFR 70.6 (a)(6)(ii), the Owner or Operator shall not claim as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this Permit.

XXIII. Emission-Based Fee Requirements

- A. Env-A 705.01, *Emission-based Fees*: The Owner or Operator shall pay to the Division each year an emission-based fee for emissions from the facility.
- B. Env-A 705.02, *Determination of Actual Emissions for use in Calculating of Emission-based Fees*: The Owner or Operator shall determine the total actual annual emissions from the facility for each calendar year in accordance with the methods specified in Env-A 616, *Determination of Actual Emissions*.
- C. Env-A 705.03, *Calculation of Emission-based Fees*: The Owner or Operator shall calculate the annual emission-based fee for each calendar year in accordance with the procedures specified in Env-A 705.03 and the following equation:

$$FEE = E * DPT$$

where:

- FEE = The annual emission-based fee for each calendar year as specified in Env-A 705;
- E = Total actual emissions as determined pursuant to Condition XXIII.B; and
- DPT = The dollar per ton fee the Division has specified in Env-A 705.03⁴.

- D. Env-A 705.04, *Payment of Emission-based Fee*: The Owner or Operator shall submit, to the Division, payment of the emission-based fee so that the Division receives it on or before April 15th for emissions during the previous calendar year.

XXIV. Duty To Provide Information

In accordance with 40 CFR 70.6 (a)(6)(v), upon the DES's written request, the Owner or Operator shall furnish, within a reasonable time, any information necessary for determining whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Owner or Operator shall furnish to the DES copies of records that the Owner or Operator is required to retain by this Permit. The Owner or Operator may make a claim of confidentiality as to any information submitted pursuant to this condition in accordance with Env-A 103 at the time such information is submitted to DES. DES shall evaluate such requests in accordance with the provisions of Env-A 103.

XXV. Property Rights

Pursuant to 40 CFR 70.6 (a)(6)(iv), this Permit does not convey any property rights of any sort, or any exclusive privilege.

XXVI. Severability Clause

Pursuant to 40 CFR 70.6 (a)(5), the provisions of this Permit are severable, and if any provision of this Permit, or the application of any provision of this Permit to any circumstances is held invalid,

⁴ For additional information on emission-based fees, visit the DES website at <http://des.nh.gov/organization/divisions/air/pehb/apps/fees.htm>

the application of such provision to other circumstances, and the remainder of this Permit, shall not be affected thereby.

XXVII. Emergency Conditions

Pursuant to 40 CFR 70.6 (g), the Owner or Operator shall be shielded from enforcement action brought for noncompliance with technology based⁵ emission limitations specified in this Permit as a result of an emergency⁶. In order to use emergency as an affirmative defense to an action brought for noncompliance, the Owner or Operator shall demonstrate the affirmative defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- A. An emergency occurred and that the Owner or Operator can identify the cause(s) of the emergency;
- B. The permitted facility was at the time being properly operated;
- C. During the period of the emergency, the Owner or Operator took all reasonable steps as expeditiously as possible, to minimize levels of emissions that exceeded the emissions standards, or other requirements in this Permit; and
- D. The Owner or Operator submitted notice of the emergency to the DES within two (2) business days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emission, and corrective actions taken.

XXVIII. Permit Deviation

In accordance with 40 CFR 70.6(a)(3)(iii)(B), the Owner or Operator shall report to the DES all instances of deviations from Permit requirements, by telephone, fax, or e-mail (pdeviations@des.state.nh.us) within 24 hours of discovery of such deviation. This report shall include the deviation itself, including those attributable to upset conditions as defined in this Permit, the probable cause of such deviations, and any corrective actions or preventative measures taken.

Within 10 days of discovery of the permit deviation, the Owner or Operator shall submit a written report including the above information as well as the following: preventive measures taken to prevent future occurrences; date and time the permitted device returned to normal operation; specific device, process or air pollution control equipment that contributed to the permit deviation; type and quantity of excess emissions emitted to the atmosphere due to permit deviation; and an explanation of the calculation or estimation used to quantify excess emissions.

Said Permit deviation shall also be submitted in writing to the DES in the semi-annual summary report of monitoring and testing requirements due July 31st and January 31st of each calendar year.

⁵ Technology based emission limits are those established on the basis of emission reductions achievable with various control measures or process changes (e.g., a new source performance standard) rather than those established to attain health based air quality standards.

⁶ An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation would require immediate corrective action to restore normal operation, and that causes the source to exceed a technology based limitation under the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operations, operator error or decision to keep operating despite knowledge of any of these things.

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Deviations are instances where any Permit condition is violated and has not already been reported as an emergency pursuant to Section XXVII. of this Permit.

Reporting a Permit deviation is not an affirmative defense for action brought for noncompliance.