



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Northeast Regional Office • 205B Lowell Street, Wilmington MA 01887 • 978-694-3200

DEVAL L. PATRICK
Governor

MAEVE VALLELY BARTLETT
Secretary

DAVID W. CASH
Commissioner

FINAL AIR QUALITY OPERATING PERMIT

(Administrative Amendment to MBR-95-OPP-040R, Transmittal W117284)

Issued by the Massachusetts Department of Environmental Protection ("MassDEP") pursuant to its authority under M.G.L. c. 111, §142B and §142D, 310 CMR 7.00 et seq., and in accordance with the provisions of 310 CMR 7.00: Appendix C.

ISSUED TO ["the Permittee"]:

United States Air Force
Hanscom Air Force Base
66 ABG/CEIE
120 Grenier Street
Hanscom AFB, Massachusetts 01731

INFORMATION RELIED UPON:

Application No. MBR-95-OPP-040R & MBR-95-OPP-040RA
Transmittal No. W117284, X231755, X234170, X252305
X262390

FACILITY LOCATION:

Hanscom Air Force Base
66 ABG/CEIE
120 Grenier Street
Hanscom AFB, Massachusetts 01731

FACILITY IDENTIFYING NUMBERS:

AQ ID No. 119-0499
FMF FAC No. 131339
FMF RO No. 52291

NATURE OF BUSINESS:

Air Force Base without a flying mission

SIC CODE: 9711

NIACS: 928110

RESPONSIBLE OFFICIAL:

Name: Colonel **Michael A. Vogel**
Title: Commander, 66th Air Base Group
Phone: 781-377-2301

FACILITY CONTACT PERSON:

Name: Mr. Robert Spelfogel
Title: Environmental Engineer
Phone: 781-225-6145
e-mail: Robert.Spelfogel@hanscom.com.af.mil

This Operating Permit shall expire on October 9, 2013 (Note: Hanscom AFB submitted an Operating Permit Renewal Application (MBR-95-OPP-040R2) on April 8, 2013. This Renewal Application is currently under review by MassDEP.)

For the Department of Environmental Protection, Bureau of Waste Prevention

This final document copy is being provided to you electronically by the
Department of Environmental Protection. A signed copy of this document
is on file at the DEP office listed on the letterhead.

Susan Ruch
Deputy Regional Director, Bureau of Waste Prevention

October 3, 2014
Date

TABLE OF CONTENTS

SPECIAL CONDITIONS FOR OPERATING PERMIT	3
1. PERMITTED ACTIVITIES	3
DESCRIPTION OF FACILITY AND OPERATIONS	3
2. EMISSION UNIT IDENTIFICATION	3
3. IDENTIFICATION OF EXEMPT ACTIVITIES	4
4. APPLICABLE REQUIREMENTS	4
<i>A. EMISSION LIMITS AND RESTRICTIONS</i>	<i>4</i>
<i>B. COMPLIANCE DEMONSTRATION</i>	<i>6</i>
<i>C. GENERAL APPLICABLE REQUIREMENTS</i>	<i>9</i>
<i>D. REQUIREMENTS NOT CURRENTLY APPLICABLE</i>	<i>9</i>
5. SPECIAL TERMS AND CONDITIONS	9
6. ALTERNATIVE OPERATING SCENARIOS	10
7. EMISSIONS TRADING	10
8. COMPLIANCE SCHEDULE	10
GENERAL CONDITIONS FOR OPERATING PERMIT	11
9. FEES	11
10. COMPLIANCE CERTIFICATION	11
11. NONCOMPLIANCE	12
12. PERMIT SHIELD	12
13. ENFORCEMENT	12
14. PERMIT TERM	13
15. PERMIT RENEWAL	13
16. REOPENING FOR CAUSE	13
17. DUTY TO PROVIDE INFORMATION	13
18. DUTY TO SUPPLEMENT	13
19. TRANSFER OF OWNERSHIP OR OPERATION	13
20. PROPERTY RIGHTS	14
21. INSPECTION AND ENTRY	14
22. PERMIT AVAILABILITY	14
23. SEVERABILITY CLAUSE	14
24. EMERGENCY CONDITIONS	14
25. PERMIT DEVIATION	15
26. OPERATIONAL FLEXIBILITY	15
27. MODIFICATIONS	16
APPEAL CONDITIONS FOR OPERATING PERMIT	16
28. LEGEND OF ABBREVIATED TERMS IN OPERATING PERMIT	17

SPECIAL CONDITIONS FOR OPERATING PERMIT

1. PERMITTED ACTIVITIES

In accordance with the provisions of 310 CMR 7.00: Appendix C and applicable rules and regulations, the Permittee is authorized to operate air emission units as shown in Table 1 and exempt and insignificant activities as described in 310 CMR 7.00: Appendix C(5)(h) and (i). The units described in Table 1 are subject to the terms and conditions shown in Sections 4, 5, and 6 and to other terms and conditions as specified in this Permit. Emissions from the exempt activities shall be included in the total facility emissions for the emission-based portion of the fee calculation described in 310 CMR 4.00 and this Permit.

DESCRIPTION OF FACILITY AND OPERATIONS

Hanscom Air Force Base is a base without a flying mission, the primary mission is research and development for electronic systems. The largest air pollution sources at the facility are fuel burning equipment, the most significant of which are four oil and natural gas burning boilers as well as several diesel powered emergency generators. The facility is not classified as a major source of hazardous air pollutants (HAPs).

Facility requirements for applicable emission units are listed in the following tables:

Table 3 states the emission limits and restrictions; Table 4 states the monitoring and testing requirements; Table 5 states the record keeping requirements; Table 6 states the reporting requirements; and Table 7 states regulations to which the facility is not subject.

2. EMISSION UNIT IDENTIFICATION

The following emission units (Table 1) are subject to and regulated by this Operating Permit:

Table 1			
Emission Unit (EU#)	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE
EU01	E. Keller Boiler No. 1 (Heat Plant)	49.15 MMBtu per hour	None
EU02	Erie City Zurn Boiler No. 2 (Heat Plant)	49.15 MMBtu per hour	
EU03	Erie City Zurn Boiler No. 3 (Heat Plant)	49.15 MMBtu per hour	
EU04	Erie City Zurn Boiler No. 4 (Heat Plant)	49.15 MMBtu per hour	
EU05	Cummins Standby Generator, Building 1435	4.7 MMBtu per hour	
EU06	Cummins Standby Generator, Building 1201	5.8 MMBtu per hour	
EU07	Gas Driven Chiller, Building 1201	5.286 MMBtu per hour	
EU08	Underground Storage Tank, Unleaded Plus Gasoline, Building 1639	10,000 Gallons	Stage I Vapor Control System
EU09	Underground Storage Tank, Super Unleaded Gasoline, Building 1639	10,000 Gallons	
EU10	Underground Storage Tank, Regular Unleaded Gasoline, Building 1639	12,000 Gallons	
EU11	Underground Storage Tank, Regular Unleaded Gasoline, Building 1642	10,000 Gallons	
EU12	Underground Storage Tank, Unleaded Plus Gasoline, Building 1642	10,000 Gallons	

Table 1			
Emission Unit (EU#)	DESCRIPTION OF EMISSION UNIT	EU DESIGN CAPACITY	POLLUTION CONTROL DEVICE
EU13	Gasoline Fuel Dispensing, Building 1639	1,102,493 gallons/year	Stage II Vapor Control System
EU14	Gasoline Fuel Dispensing, Building 1642	72,188 gallons/year	
EU44	Caterpillar Standby Generator, Building 1607	3.12 MMBtu/hr	None
EU45	Caterpillar Standby Generator, Building 1614W	5.082 MMBtu/hr	
EU46	Kohler Standby Generator, Building 1614E	8.05 MMBtu/hr	

3. IDENTIFICATION OF EXEMPT ACTIVITIES

The following are considered exempt activities in accordance with the criteria contained in 310 CMR 7.00: Appendix C(5)(h):

Table 2	
DESCRIPTION OF CURRENT EXEMPT ACTIVITIES	REASON
The list of current exempt activities is contained in the Operating Permit application and shall be updated by the Permittee to reflect changes at the facility over the Permit term. An up-to-date copy of exempt activities list shall be kept on-site at the facility and a copy shall be submitted to the MassDEP's Regional Office. Emissions from these activities shall be reported on the annual emissions statement pursuant to 310 CMR 7.12.	310 CMR 7.00: Appendix C(5)(h)

4. APPLICABLE REQUIREMENTS

A. EMISSION LIMITS AND RESTRICTIONS

The Permittee is subject to the emission limits/restrictions as contained in Table 3 below:

Table 3					
Emission Unit (EU#)	FUEL	RESTRICTIONS	POLLUTANT	EMISSION LIMIT/STANDARD	APPLICABLE REGULATION AND/OR APPROVAL NO.
EU01, EU02, EU03, EU04	Primary: No. 6 fuel oil ≤ 1% S by weight Secondary: natural gas	NA	NOx ¹	Optimum values as determined by performance of adjustments & tune ups as required in 310 CMR 7.19(6)	310 CMR 7.19(6) MBR-85-COM-112
			CO ¹		
			PM	≤0.10 lb/MMBtu	310 CMR 7.02(8)(h) MBR-85-COM-112
			S in Fuel	≤0.55 lb/MMBtu	310 CMR 7.05(1)(a)1 MBR-85-COM-112

Table 3					
Emission Unit (EU#)	FUEL	RESTRICTIONS	POLLUTANT	EMISSION LIMIT/STANDARD	APPLICABLE REGULATION AND/OR APPROVAL NO.
EU05, EU06, EU44, EU45, EU46	No. 2 fuel oil ≤0.0015% S by weight	Operation restricted to no more than 300 hours per rolling 12-month period	S in Fuel	≤ 15 ppm	310 CMR 7.03(10) 310 CMR 7.02(8)(i) 310 CMR 7.05(1)(a)3
EU07	Natural gas	Fuel usage restricted to no more than 3.67 MCF per month and 13.4 MCF per rolling 12-month period. Operation restricted to no more than 2,628 hours per rolling 12-month period	NO _x ¹	2.0 grams per brake horsepower-hour and 3.7 tons per rolling 12-month period.	MBR-97-COM-013
			CO ¹	1.7 grams per brake horsepower-hour and 3.1 tons per rolling 12-month period	
EU08 through EU12	Unleaded gasoline	NA	VOC	Submerged fill and vapor balance system	310 CMR 7.24(3)(a), 7.24(3)(b), 7.24(3)(d), 40CFR63 Subpart CCCCCC
EU13, EU14	Unleaded gasoline	NA	VOC	Stage II vapor recovery system	310 CMR 7.24(6), 40CFR63 Subpart CCCCCC
Facility-wide	see above	NA	Smoke	<No. 1 of Chart ² , except No.1 to < No. 2 of Chart for ≤ 6 minutes during any one hour	310 CMR 7.06(1)(a)
			Opacity	<20%, except 20% to <40% for ≤2 minutes during any one hour	310 CMR 7.06(1)(b)

Table 3 Notes:

- 1 Compliance with emission limit(s)/standard(s) for NO_x and CO shall be based on a one-hour averaging time.
- 2 Chart means the Ringelmann Scale for grading the density of smoke, as published by the United States Bureau of Mines and as referred to in the Bureau of Mines Information Circular No. 8333, or any smoke inspection guide approved by MassDEP.

B. COMPLIANCE DEMONSTRATION

The Permittee is subject to the monitoring/testing, record keeping, and reporting requirements as contained in Tables 4,5, and 6 below and 310 CMR 7.00 Appendix C(9) and (10), as well as the applicable requirements contained in Table 3:

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
EU01 through EU04	Conduct annual tune-ups in accordance with 310 CMR 7.19 (6)(a), and in accordance with 310 CMR 7.19(6)(b), verify that settings determined during tune-ups have not changed at least once per month.
	In accordance with 310 CMR 7.04(2)(a), no person shall cause, suffer, allow, or permit the burning of any grade oil or solid fuel in any fuel utilization facility having an energy input capacity rated by MassDEP equal to or greater than 40 MMBtu per hour, unless such facility is equipped with a smoke density sensing instrument and recorder which are properly maintained in an accurate operating condition, operates continuously and is equipped with an audible alarm to signal the need for combustion equipment adjustment or repair when the smoke density is equal to or greater than No. 1 of the Chart. Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., the use of Continuous Opacity Monitoring Systems (COMS) equipped with audible alarms and recorders that signal the need for combustion equipment adjustment or repair when the Opacity is equal to or greater than 20 percent shall constitute compliance with this requirement. The Opacity COMS shall meet Performance Specification 1 of 40 CFR Part 60, Appendix B.
	In accordance with 310 CMR 7.04(4)(a), inspect and maintain fuel utilization facility in accordance with manufacturer's recommendations and test for efficient operation at least annually.
	Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., opacity shall be determined in accordance with 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.
EU05, EU06, EU44, EU45, EU46	Monitor fuel usage and hours of operation to demonstrate compliance with requirements listed in 310 CMR 7.03(10) and 310 CMR 7.02(8)(i).
EU07	Monitor fuel usage and hours of operation to demonstrate compliance with fuel restrictions required in Final Approval MBR-97-COM-013.
EU08 through EU12	In accordance with 310 CMR 7.24(3)(f), and where applicable, 40CFR63.11120, maintain and properly operate vapor balance system, and maintain all gauges, meters or other specified testing devices in proper working order.
	Conduct testing, at MassDEP's request, of vapor recovery system to determine compliance with the requirements of 310 CMR 7.24(4)(b). In accordance with 310 CMR 7.24(4)(i), testing shall be conducted in accordance with EPA Method 27 as described in Appendix A of CFR Title 40 Part 60, or by any methods approved by MassDEP and EPA.
EU13, EU14	In accordance with 310 CMR 7.24 (6), conspicuously post Stage II system operating instructions on both sides of all motor vehicle fuel dispensers which is clearly visible to the system operator during the refueling process. Such instructions shall include: a clear pictorial or written description of how to correctly dispense motor vehicle fuel using a Stage II system; a warning not to continue dispensing motor vehicle fuel ("topping off") after automatic system shutoff has engaged; and the telephone number of MassDEP's Stage II Consumer Hotline.
	Conduct operation and maintenance requirements in accordance with 310 CMR 7.24 (6)(b).
	Perform Compliance Testing and Certification Requirements in accordance with 310 CMR 7.24 (6)(c), and where applicable, 40CFR63.11120.

Table 4	
EU#	MONITORING/TESTING REQUIREMENTS
Facility-wide	Conduct Emissions Compliance Testing (stack testing) in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A, if and when requested by MassDEP or the United States Environmental Protection Agency (EPA).
	Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., monitor sulfur content of each new shipment of fuel received. Compliance with 310 CMR 7.05(1)(a) for sulfur content of the fuel can be demonstrated through fuel analysis. The analysis of sulfur content of the fuel shall be in accordance with the applicable American Society for Testing Materials (ASTM) test methods or any other method approved by MassDEP and the United States EPA. Fuel sulfur information may be provided by fuel suppliers.
	Monitor operations such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
EU01 through EU04	In accordance with 310 CMR 7.19(6)(b), maintain records of tune-ups, including: date of tune-up, person(s) conducting tune-up, O ₂ /smoke spot correlations obtained during tune-up, boiler/burner manufacturer's recommended set points, final set points as a result of tune-up, normal boiler/burner maintenance records.
	In accordance with 310 CMR 7.04(2)(a), maintain records of Smoke Density Indicator Recording Charts. The keeping of COMS records shall constitute compliance with this requirement.
	Consistent with the requirements of 310 CMR 7.04(2)(a), record opacity determined in accordance 40 CFR Part 60, Appendix A, Method 9 in the event of COMS malfunction. This method shall also apply to any detached plumes.
	In accordance with 310 CMR 7.04(4)(a), maintain results of fuel utilization facility inspection, maintenance, and testing and the date upon which it was performed posted conspicuously on or near the facility.
	Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., record unit parameters, as necessary, to ensure continuous compliance with PM emission limits.
EU05, EU06, EU44, EU45, EU46	Monitor to ensure that the following records are maintained for each unit as required in 310 CMR 7.03(10) and 310 CMR 7.02(8)(i): information of equipment type, make and model, and maximum power input/output; and monthly logs of hours of operation, gallons of fuel used, fuel type and heating value, and a monthly calculation of the total hours operated and gallons of fuel used in the previous twelve months shall be kept on site; and purchase orders, invoices and other documents to support information in the monthly log.
EU07	Maintain records of hours of operation and fuel usage to demonstrate compliance with Final Approval MBR-97-COM-013.
EU08 through EU12	In accordance with 310 CMR 7.24(3)(f) and where applicable, 40CFR63.11125, maintain records of daily throughput, all maintenance performed, including the type of maintenance and the date when maintenance was performed; as well as all malfunctions, including the date the malfunction was observed, and the date the malfunction was repaired.
EU13, EU14	Maintain records of all persons trained to operate and maintain Stage II systems in accordance with 310 CMR 7.24(6)(b)2.
	Maintain records of all weekly visual inspections of Stage II system, and all maintenance performed for the most recent rolling 12-month period in accordance with 310 CMR 7.24(6)(b)3.
	Maintain records of all compliance testing and transfer documents in accordance with 310 CMR 7.24(7)(d), 7.24(7)(e)(2), and where applicable, 40CFR63.11125.

Table 5	
EU#	RECORD KEEPING REQUIREMENTS
Facility-wide	In accordance with 310 CMR 7.00: Appendix C(10)(b), maintain records of all monitoring data and supporting information required by this Operating Permit on site for five (5) years from the date of the monitoring sample, measurement, report or initial Operating Permit Application.
	Maintain the test results of any Emissions Compliance Testing (stack testing) performed in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A. Maintain the test results of any other testing requested by MassDEP or EPA.
	Maintain records such that information may be compiled for the annual preparation of a Source Registration/Emission Statement Form as required by 310 CMR 7.12.
	Keep copies of Source Registration/Emission Statement Forms submitted annually to MassDEP as required by 310 CMR 7.12.
	Maintain records for opacity in accordance with EPA Test Method 9, as specified in 40 CFR Part 60, Appendix A, if and when requested by MassDEP or EPA. This method shall also apply to any detached plumes.
	Pursuant to MassDEP's authority through 310 CMR 7.00: Appendix C(9)(b)2., maintain fuel analysis results used to demonstrate compliance with fuel sulfur content requirements.

Table 6	
EU#	REPORTING REQUIREMENTS
EU13, EU14	Submit Compliance Certifications and Notification as required by 310 CMR 726(6), and where applicable, 40CFR63.11126.
Facility-wide	Submit a Source Registration/Emission Statement form to MassDEP on an annual basis as required by 310 CMR 7.12.
	Submit by January 30 and July 30 for the previous six months respectively, a Semi-Annual Monitoring Summary and Certification with all monitoring data and related supporting information to MassDEP as required by 310 CMR 7.00: Appendix C(10)(c).
	Submit Annual Compliance report to MassDEP and EPA by January 30 of each year and as required by General Condition 10. All reports must be certified by a responsible official as provided in 310 CMR 7.00: Appendix C(10)(h).
	Promptly report to MassDEP all instances of deviations from Permit requirements (including but not limited to testing for efficient operation, ignition timing, fuel sulfur and fuel ash content, emission limitations/standards, Standard Operating and Maintenance Procedures) by telephone or fax, within three days of discovery of such deviation, as provided in 310 CMR 7.00: Appendix C(10)(f). (See General Condition 25).
	If and when MassDEP or EPA requests Emissions Compliance Testing (Stack Testing) to be conducted in accordance with 310 CMR 7.13, and 40 CFR Part 60, Appendix A, then,:
	(a) submit a pretest protocol for the required Emissions Compliance Test (stack test) for review and written Department approval at least 60 days prior to the anticipated date of testing,
	(b) include in the pretest protocol a description of sampling point locations, sampling equipment, sampling and analytical procedures, and the operating conditions for the required Emissions Compliance Testing, and
(c) submit the Emissions Compliance Testing report for the review and written Department approval within 60 days of the completion of the Emissions Compliance Testing.	
	All required reports must be certified by a responsible official as provided in 310 CMR 7.00: Appendix C(10)(h).

C. GENERAL APPLICABLE REQUIREMENTS

The Permittee shall comply with all generally applicable requirements contained in 310 CMR 7.00 et. seq. and 310 CMR 8.00 et. seq., when subject.

D. REQUIREMENTS NOT CURRENTLY APPLICABLE

The Permittee is currently not subject to the following requirements:

Table 7	
REGULATION	DESCRIPTION
42 U.S.C. 7401, §112(r)	Prevention of Accidental Releases
310 CMR 7.25	Consumer and Commercial Products
40 CFR Part 64	Compliance Assurance Monitoring

5. SPECIAL TERMS AND CONDITIONS

The Permittee is subject to the following special terms and conditions that are not contained in Tables 3, 4, 5, and 6:

1. That should any nuisance condition(s) be generated by the operation of this facility, then appropriate steps will immediately be taken by Hanscom Air Force Base to abate said nuisance condition(s) (State Only 310 CMR 7.01(1)).
2. Hanscom Air Force Base has indicated that it is subject to, and complying with, the requirements of 310 CMR 7.16, U Reduction of Single Occupant Commuter Vehicle Use. Hanscom Air Force Base shall continue to comply with 310 CMR 7.16.
3. Hanscom Air Force Base has indicated that it is subject to, and complying with, the requirements of 40 CFR Part 82, Protection of Stratospheric Ozone. Hanscom Air Force Base shall continue to comply with 40 CFR Part 82.
4. Per data as supplied through the Permittee's Operating Permit Renewal Application (MBR-95-OPP-040R, Transmittal No. W117284), all EUs shall continue to emit products of combustion through the following flues with the following parameters:

Flue 1: EU01, EU02

Flue Height 150 feet
 Flue Exit Diameter 7 feet
 Stack Material Steel

Flue 2: EU03, EU04

Flue Height 150 feet
 Flue Exit Diameter 7 feet
 Stack Material Steel

Flue 3: EU05

Flue Height 12 feet
 Flue Exit Diameter 0.8 feet
 Stack Material Steel

Flue 4: EU06

Flue Height 15 feet
 Flue Exit Diameter 0.5 feet
 Stack Material Metal lined

Flue 5: EU07

Flue Height 26.5 feet
 Flue Exit Diameter 0.67 feet
 Stack Material Steel

EU44, EU45, EU46

Flue Height: ≥ 5.0 feet above building roof top
 Stack Material Steel

6. ALTERNATIVE OPERATING SCENARIOS

None proposed by Permittee.

7. EMISSIONS TRADING

(a) Intra-facility emissions trading

The facility did not request intra-facility emissions trading in its Operating Permit Application.

Pursuant to 310 CMR 7.00: Appendix C(7)(b), emissions trades, provided for in this Permit, may be implemented provided the Permittee notifies The United States Environmental Protection Agency (EPA) and MassDEP at least fifteen (15) days in advance of the proposed changes and the Permittee provides the information required in 310 CMR 7.00: Appendix C(7)(b)3.

Any intra-facility change that does not qualify pursuant to 310 CMR 7.00: Appendix C(7)(b)2. is required to be submitted to MassDEP pursuant to 310 CMR 7.00: Appendix B.

(b) Inter-facility emissions trading

The facility did not request inter-facility emissions trading in its Operating Permit Application.

All increases in emissions due to emissions trading must be authorized under the applicable requirements of 310 CMR 7.00: Appendix B (the "Emissions Trading Program") and the 42 U.S.C. §7401 et seq. (the "Act"), and provided for in this Permit.

8. COMPLIANCE SCHEDULE

The Permittee has indicated that the facility is in compliance and shall remain in compliance with the applicable requirements contained in Sections 4 and 5. In addition, the Permittee shall comply with any applicable requirements that become effective during the Permit term.

GENERAL CONDITIONS FOR OPERATING PERMIT

9. FEES

The Permittee has paid the permit application processing fee and shall pay the annual compliance fee in accordance with the fee schedule pursuant to 310 CMR 4.00.

10. COMPLIANCE CERTIFICATION

All documents submitted to MassDEP shall contain certification by the responsible official of truth, accuracy, and completeness. Such certification shall be in compliance with 310 CMR 7.01(2) and contain the following language:

"I certify that I have personally examined the foregoing and am familiar with the information contained in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including possible fines and imprisonment."

The "Operating Permit Reporting Kit" contains instructions and the Annual Compliance Report and Certification and the Semi-Annual Monitoring Summary Report and Certification. The "Operating Permit Reporting Kit" is available to the Permittee via MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm>.

(a) Annual Compliance Report and Certification

The Responsible Official shall certify, annually for the calendar year, that the facility is in compliance with the requirements of this Permit. The report shall be postmarked or delivered by January 30 to MassDEP and to the Regional Administrator, U.S. Environmental Protection Agency - New England Region. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- i. the terms and conditions of the Permit that are the basis of the certification;
- ii. the current compliance status and whether compliance was continuous or intermittent during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods; and
- iv. any additional information required by MassDEP to determine the compliance status of the source.

(b) Semi-Annual Monitoring Summary Report and Certification

The Responsible Official shall certify, semi-annually on the calendar year, that the facility is in compliance with the requirements of this Permit. The report shall be postmarked or delivered by January 30 and July 30 to MassDEP. The report shall be submitted in compliance with the submission requirements below.

The compliance certification and report shall describe:

- i. the terms and conditions of the Permit that are the basis of the certification;
- ii. the current compliance status during the reporting period;
- iii. the methods used for determining compliance, including a description of the monitoring, record keeping, and reporting requirements and test methods;
- iv. whether there were any deviations during the reporting period;

- v. if there are any outstanding deviations at the time of reporting, and the Corrective Action Plan to remedy said deviation;
- vi. whether deviations in the reporting period were previously reported;
- vii. if there are any outstanding deviations at the time of reporting, the proposed date of return to compliance;
- viii. if the deviations in the reporting period have returned to compliance and date of such return to compliance; and
- ix. any additional information required by MassDEP to determine the compliance status of the source.

11. NONCOMPLIANCE

Any noncompliance with a permit condition constitutes a violation of 310 CMR 7.00: Appendix C and the Clean Air Act, and is grounds for enforcement action, for permit termination or revocation, or for denial of an operating permit renewal application by MassDEP and/or EPA. Noncompliance may also be grounds for assessment of administrative or civil penalties under M.G.L. c.21A, §16 and 310 CMR 5.00; and civil penalties under M.G.L. c.111, §142A and 142B. This permit does not relieve the Permittee from the obligation to comply with any other provisions of 310 CMR 7.00 or the 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.

12. PERMIT SHIELD

- (a) This facility has a permit shield provided that it operates in compliance with the terms and conditions of this permit. Compliance with the terms and conditions of this permit shall be deemed compliance with all applicable requirements specifically identified in Sections 4, 5, 6, and 7, for the emission units as described in the Permittee's application and as identified in this permit.

Where there is a conflict between the terms and conditions of this permit and any earlier approval or permit, the terms and conditions of this permit control.

- (b) MassDEP has determined that the Permittee is not currently subject to the requirements listed in Section 4, Table 7.
- (c) Nothing in this permit shall alter or affect the following:
 - (i) the liability of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - (ii) the applicable requirements of the Acid Rain Program, consistent with 42 U.S.C. §7401, §408(a); or
 - (iii) the ability of EPA to obtain information under 42 U.S.C. §7401, §114 or §303 of the Act.

13. ENFORCEMENT

The following regulations found at 310 CMR 7.02(8)(h) Table 6 for wood fuel, 7.04(9), 7.05(8), 7.09 (odor), 7.10 (noise), 7.18(1)(b), 7.21, 7.22, 7.70 and any condition(s) designated as "state only" are not federally enforceable because they are not required under the Act or under any of its applicable requirements. These regulations and conditions are not enforceable by the EPA. Citizens may seek equitable or declaratory relief to enforce these regulations and conditions pursuant to Massachusetts General Law Chapter 214, Section 7A

All other terms and conditions contained in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by MassDEP, EPA and citizens as defined under the Act.

A Permittee 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.

14. PERMIT TERM

This permit shall expire on the date specified on the cover page of this permit, which shall not be later than the date 5 years after issuance of this permit.

Permit expiration terminates the Permittee's right to operate the facility's emission units, control equipment or associated equipment covered by this permit, unless a timely and complete renewal application is submitted at least 6 months before the expiration date.

15. PERMIT RENEWAL

Upon MassDEP's receipt of a complete and timely application for renewal, this facility may continue to operate subject to final action by MassDEP on the renewal application.

In the event MassDEP has not taken final action on the operating permit renewal application prior to this permit's expiration date, this permit shall remain in effect until MassDEP takes final action on the renewal application, provided that a timely and complete renewal application has been submitted in accordance with 310 CMR 7.00: Appendix C(13).

16. REOPENING FOR CAUSE

This permit may be modified, revoked, reopened, and reissued, or terminated for cause by MassDEP and/or EPA. The responsible official of the facility may request that MassDEP terminate the facility's operating permit for cause. MassDEP will reopen and amend this permit in accordance with the conditions and procedures under 310 CMR 7.00: Appendix C(14).

The filing of a request by the Permittee for an operating permit revision, revocation and reissuance, or termination, or a notification of a planned change or anticipated noncompliance does not stay any operating permit condition.

17. DUTY TO PROVIDE INFORMATION

Upon MassDEP's written request, the Permittee 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 Permittee shall furnish to MassDEP copies of records that the Permittee is required to retain by this permit.

18. DUTY TO SUPPLEMENT

The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information. The Permittee shall also provide additional information as necessary to address any requirements that become applicable to the facility after the date a complete renewal application was submitted but prior to release of a draft permit.

The Permittee shall promptly, on discovery, report to MassDEP a material error or omission in any records, reports, plans, or other documents previously provided to MassDEP.

19. TRANSFER OF OWNERSHIP OR OPERATION

This permit is not transferable by the Permittee unless done in accordance with 310 CMR 7.00: Appendix C(8)(a). A change in ownership or operation control is considered an administrative permit amendment if no

other change in the permit is necessary and provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between current and new Permittee, has been submitted to MassDEP.

20. PROPERTY RIGHTS

This permit does not convey any property rights of any sort, or any exclusive privilege.

21. INSPECTION AND ENTRY

Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of MassDEP, and EPA to perform the following:

- (a) enter upon the Permittee's premises where an operating permit source activity is located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
- (d) sample or monitor at reasonable times any substances or parameters for the purpose of assuring compliance with the operating permit or applicable requirements as per 310 CMR 7.00 Appendix C(3)(g)(12).

22. PERMIT AVAILABILITY

The Permittee shall have available at the facility, at all times, a copy of the materials listed under 310 CMR 7.00: Appendix C(10)(e) and shall provide a copy of the permit, including any amendments or attachments thereto, upon request by MassDEP or EPA.

23. SEVERABILITY CLAUSE

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

24. EMERGENCY CONDITIONS

The Permittee shall be shielded from enforcement action brought for noncompliance with technology based¹ emission limitations specified in this permit as a result of an emergency². In order to use emergency as an affirmative defense to an action brought for noncompliance, the Permittee shall demonstrate the affirmative

¹ 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.

² 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.

defense through properly signed, contemporaneous operating logs, or other relevant evidence that:

- (a) an emergency occurred and that the Permittee 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 Permittee 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 Permittee submitted notice of the emergency to MassDEP 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.

If an emergency episode requires immediate notification to the Bureau of Waste Site Cleanup/Emergency Response immediate notification to the appropriate parties should be made as required by law.

25. PERMIT DEVIATION

Deviations are instances where any permit condition is violated and not reported as an emergency pursuant to section 24 of this permit. Reporting a permit deviation is not an affirmative defense for action brought for noncompliance. Any reporting requirements listed in Table 6. of this Operating Permit shall supersede the following deviation reporting requirements, if applicable.

The Permittee shall report to MassDEP's Regional Bureau of Waste Prevention the following deviations from permit requirements, by telephone or fax, within three (3) days of discovery of such deviation:

- Unpermitted pollutant releases, excess emissions or opacity exceedances measured directly by CEMS/COMS, by EPA reference methods or by other credible evidence, which are ten percent (10%) or more above the emission limit.
- Exceedances of parameter limits established by your Operating Permit or other approvals, where the parameter limit is identified by the permit or approval as surrogate for an emission limit.
- Exceedances of permit operational limitations directly correlated to excess emissions.
- Failure to capture valid emissions or opacity monitoring data or to maintain monitoring equipment as required by statutes, regulations, your Operating Permit, or other approvals.
- Failure to perform QA/QC measures as required by your Operating Permit or other approvals for instruments that directly monitor compliance.

For all other deviations, three (3) day notification is waived and is satisfied by the documentation required in the subsequent Semi-Annual Monitoring Summary and Certification. Instructions and forms for reporting deviations are found in the Massachusetts Department of Environmental Protection Bureau of Waste Prevention Air Operating Permit Reporting Kit, which is available to the Permittee via MassDEP's web site, <http://www.mass.gov/dep/air/approvals/aqforms.htm>. This report shall include the deviation, including those attributable to upset conditions as defined in the permit, the probable cause of such deviations, and the corrective actions or preventative measures taken.

Deviations that were reported by telephone or fax within 3 days of discovery, said deviations shall also be submitted in writing via the Operating Permit Deviation Report to the regional Bureau of Waste Prevention within ten (10) days of discovery. For deviations, which do not require 3-day verbal notification, follow-up reporting requirements are satisfied by the documentation required in the aforementioned Semi-Annual Monitoring Summary and Certification.

26. OPERATIONAL FLEXIBILITY

The Permittee is allowed to make changes at the facility consistent with 42 U.S.C. §7401, §502(b)(10) not specifically prohibited by the permit and in compliance with all applicable requirements provided the Permittee gives the EPA and MassDEP written notice fifteen days prior to said change; notification is not required for exempt activities listed at 310 CMR 7.00: Appendix C(5)(h) and (i). The notice shall comply with the requirements stated at 310 CMR 7.00: Appendix C(7)(a) and will be appended to the facility's permit. The permit shield allowed for at 310 CMR 7.00: Appendix C(12) shall not apply to these changes.

27. MODIFICATIONS

- (a) Administrative Amendments - The Permittee may make changes at the facility which are considered administrative amendments pursuant to 310 CMR 7.00: Appendix C(8)(a)1., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(b).
- (b) Minor Modifications - The Permittee may make changes at the facility which are considered minor modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)2., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(d).
- (c) Significant Modifications - The Permittee may make changes at the facility which are considered significant modifications pursuant to 310 CMR 7.00: Appendix C(8)(a)3., provided they comply with the requirements established at 310 CMR 7.00: Appendix C(8)(c).
- (d) No permit revision shall be required, under any approved economic incentives program, marketable permits program, emission trading program and other similar programs or processes, for changes that are provided in this operating permit. A revision to the permit is not required for increases in emissions that are authorized by allowances acquired pursuant to the Acid Rain Program under Title IV of the Act, provided that such increases do not require an operating permit revision under any other applicable requirement.

APPEAL CONDITIONS FOR OPERATING PERMIT

This permit is an action of MassDEP. If you are aggrieved by this action, you may request an adjudicatory hearing within 21 days of issuance of this permit. In addition, any person who participates in any public participation process required by the Federal Clean Air Act, 42 U.S.C. §7401, §502(b)(6) or under 310 CMR 7.00: Appendix C(6), with respect to MassDEP's final action on operating permits governing air emissions, and who has standing to sue with respect to the matter pursuant to federal constitutional law, may initiate an adjudicatory hearing pursuant to Chapter 30A, and may obtain judicial review, pursuant to Chapter 30A, of a final decision therein.

If an adjudicatory hearing is requested, the facility must continue to comply with all existing federal and state applicable requirements to which the facility is currently subject, until a final decision is issued in the case or the appeal is withdrawn. During this period, the application shield shall remain in effect, and the facility shall not be in violation of the Act for operating without a permit.

Under 310 CMR 1.01(6)(b), the request must state clearly and concisely the facts which are the grounds for the request, and the relief sought. Additionally, the request must state why the permit is not consistent with applicable laws and regulations.

The hearing request along with a valid check payable to The Commonwealth of Massachusetts in the amount of one hundred dollars (\$100.00) must be mailed to:

The Commonwealth of Massachusetts
Department of Environmental Protection
P.O. Box 4062
Boston, MA 02211

The request will be dismissed if the filing fee is not paid unless the appellant is exempt or granted a waiver as described

below.

The filing fee is not required if the appellant is a city or town (or municipal agency) county, or district of the Commonwealth of Massachusetts, or a municipal housing authority.

MassDEP may waive the adjudicatory hearing filing fee for a person who shows that paying the fee will create an undue financial hardship. A person seeking a waiver must file, together with the hearing request as provided above, an affidavit setting forth the facts believed to support the claim of undue financial hardship.

28. LEGEND OF ABBREVIATED TERMS IN OPERATING PERMIT

*Not all abbreviations are present in every Operating Permit

< - less than	MassDEP - Massachusetts Department of Environmental Protection
> - greater than	MMBtu - million British thermal units
≥ - greater than or equal to	MCF - Million Cubic Feet
≤ - less than or equal to	NA - not applicable
#/hr - pounds per hour	NH ₃ - Ammonia
% - percent	No. - number
Btu - British thermal units	NO _x - Nitrogen Oxides
10 ⁶ Btu/hr - 1,000,000 BTU Per Hour	O ₂ - Oxygen
AQCR - Air Quality Control Region	Pb - Lead
CEM - Continuous Emission Monitor	/ - per
CFR - Code of Federal Regulations	PLT ID - Plant Identification
CMR - Code of Massachusetts Regulations	PM - Particulate Matter
CO - Carbon Monoxide	ppm - parts per million
COMS - Continuous Opacity Monitoring System	PTE - potential to emit
EPA - Environmental Protection Agency	S - Sulfur
EU# - Emission Unit Number	SO ₂ - Sulfur Dioxide
FMF FAC. NO. - Facility Master File Number	SSEIS - Stationary Source Emission Inventory System
FMF RO NO. - Facility Master File Regulated Object Number	TPY - Tons Per Year
Ft ³ /day - cubic feet per day	VOC - Volatile Organic Compounds
HHV - Higher Heating Value	
ISO - Represent 59°F, 60% Relative Humidity, 29.92 Inches Mercury At Sea Level	
lb/MMBtu - pounds per million British thermal units	