



## **TITLE V OPERATING PERMIT**

Permit No: **TV-0019**  
Date Issued: **November 3, 2016**  
Administrative Amendment: **January 19, 2021**

This certifies that:

**Stored Solar Bethlehem, LLC**  
**1241 Whitefield Road**  
**Bethlehem, NH 03574**

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

**Stored Solar Bethlehem, LLC**  
**1241 Whitefield Road**  
**Bethlehem, NH 03574**

Facility ID No: **3300900026**  
Application No: **14-0464**, Renewal of Title V Operating Permit, received on November 18, 2014  
**20-0655**, received December 24, 2020, request for Administrative Amendment

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 his knowledge that the statements and information therein are true, accurate and complete.

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 **October 31, 2021**.

*Craig Wright*  
**COPY**

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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
ASME	American Society of Mechanical Engineers
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
CEMS	Continuous Emission Monitoring System
cfm	cubic feet per minute
CFR	Code of Federal Regulations
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring System
DER	Discrete Emission Reduction
DES	New Hampshire Department of Environmental Services
DSCFM	dry standard cubic feet per minute
Env-A	New Hampshire Code of Administrative Rules – Air Resources Division
ERC	Emission Reduction Credit
ESP	Electrostatic Precipitator
ft	foot or feet
ft <sup>3</sup>	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 <sub>x</sub>	Oxides of Nitrogen
NSPS	New Source Performance Standard
PM <sub>10</sub>	Particulate Matter < 10 microns
ppm	parts per million
psig	pounds per square inch gauge
QIP	Quality Improvement Plan
RACT	Reasonably Available Control Technology
RATA	Relative Accuracy Test Audit
RSA	Revised Statutes Annotated
RTAP	Regulated Toxic Air Pollutant
scf	standard cubic foot
SIP	State Implementation Plan
SO <sub>2</sub>	Sulfur Dioxide
TSP	Total Suspended Particulate
tpy	tons per consecutive 12-month period
USEPA	United States Environmental Protection Agency

**Facility Specific Title V Operating Permit Conditions**

**I. Facility Description of Operations**

Stored Solar Bethlehem, LLC (Stored Solar Bethlehem), formerly known as Pinetree Power LLC, operates a 17.5 megawatt (MW) gross output, power generation facility located in Bethlehem, New Hampshire. Steam produced in a wood-fired boiler rated at 289.4 million British thermal units per hour (MMBtu/hr) drives the turbine generator. The facility also operates an emergency generator rated at 603 horsepower (hp). This generator is fired only in the event of a power outage at the facility and for maintenance purposes.

On March 17, 2008, the department issued Temporary Permit TP-B-0542 authorizing the installation of nitrogen oxide (NOx) emission control equipment on the wood-fired boiler. Stored Solar Bethlehem installed overfire air and flue gas recirculation technologies, as well as a selective non-catalytic reduction (SNCR) system and a selective catalytic reduction (SCR) system.

The facility is a major source for nitrogen oxides and carbon monoxide and is therefore required to obtain a Title V Operating Permit. Pinetree Power received Prevention of Significant Deterioration (PSD) permit No. 043-149NH09 from United States Environmental Agency (USEPA) on July 1, 1991.

**II. Permitted Activities**

In accordance with all of the applicable requirements identified in this 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.

<b>Table 1 - Significant Activities</b>			
<b>Emission Unit ID</b>	<b>Description of Emission Unit</b>	<b>Installation Date</b>	<b>Maximum Design Capacity</b>
EU01	Zurn Two Drum Waterwall Bent Tube Wood-fired Boiler Type of Burner: Spreader Stoker	December 1986	289.4 MMBtu/hr <sup>1</sup> - 34.1 tons/hour of untreated wood <sup>2</sup> with a heating value of 4,250 Btu/lb, assuming approximately 50% moisture. This is equivalent to 165,000 lb/hr of steam production. <sup>3</sup>
EU02	Cooling Tower	1986	Circulation Rate = 20,000 gal/minute
EU03	603 hp Emergency Generator Manufacturer: Caterpillar Model #3408	1986	4.2 MMBtu/hr Diesel - equivalent to 30.6 gal/hr <sup>4</sup>

<sup>1</sup> This is a nominal rate and is dependent on the quality of wood burned.

<sup>2</sup> "Untreated wood" means any timber, board or sawn dimensional lumber, which has not been treated, coated or preserved. This term does not include any manufactured building material, such as plywood or wafer board. Pursuant to RSA 125-C:10-c, *Combustion Ban*, "...no person shall combust the wood component of construction and demolition debris, as defined in RSA 149-M:4, IV-a, or any mixture or derivation from said component.[...]"

<sup>3</sup> At 825 °F and 625 psig, assuming a boiler efficiency of 67% and boiler feedwater temperature of 278 °F

<sup>4</sup> Based on a heating value of 137,000 Btu/gal for diesel

Table 1 - Significant Activities			
Emission Unit ID	Description of Emission Unit	Installation Date	Maximum Design Capacity
EU04	195 hp Fire pump #1 Manufacturer: Caterpillar Model # 3208-DIT	1986	1.45 MMBtu/hr Diesel - equivalent to 10.6 gal/hr
EU05	195 hp Fire pump #2 Manufacturer: Caterpillar Model # 3208-DIT	1986	1.45 MMBtu/hr Diesel - equivalent to 10.6 gal/hr

**B. Stack Criteria**

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	197.5	7.5

**C. Insignificant Activities Identification**

All activities at this facility, which meet the criteria identified in Env-A 609.04, shall be considered insignificant activities and shall not be included in the total facility emissions for the emission-based fee calculation described in Section XXI of this Permit.

**D. 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 XXI of this permit.

**IV. Pollution Control Equipment Identification**

Air pollution control equipment, namely Multiclone and Electrostatic Precipitator, shall be operated at all times that the wood-fired boiler is operating in order to meet permit conditions:

Table 3 - Pollution Control Equipment Identification		
Pollution Control Equipment Number	Description of Equipment	Activity
PCE1	Multiclone - primary particulate control	Control of particulate matter
PCE2	Electrostatic Precipitator (ESP) - secondary particulate control	
PCE3	Selective Non-Catalytic Reduction (SNCR) System <sup>5</sup>	Control of nitrogen oxides
PCE4	Selective Catalytic Reduction (SCR) System <sup>5</sup>	

<sup>5</sup> PCE3 and PCE4 are installed voluntarily by the Permittee and as such, the Permittee may operate these devices at its discretion.

**V. Alternative Operating Scenarios**

No alternative operating scenarios were identified for this permit.

**VI. Applicable Requirements**

**A. State-only Enforceable Operational and Emission Limitations**

The owner or operator shall be subject to the state-only<sup>6</sup> operational and emission limitations identified in Table 4 below:

<b>Table 4 - State-only Enforceable Operational and Emission Limitations</b>			
<b>Item #</b>	<b>Applicable Requirements</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Citation</b>
1.	<u>24-hour and Annual Ambient Air Limit</u> <sup>7</sup> The emissions of any Regulated Toxic Air Pollutant (RTAP) shall not cause an exceedance of its associated 24-hour or annual Ambient Air Limit (AAL) as set forth in Env-A 1450.01, <i>Table of All Regulated Toxic Air Pollutants</i> .	Facility Wide	Env-A 1400
2.	<u>Revisions of the List of RTAPs</u> In accordance with RSA 125-I:5 IV, if the department revises the list of RTAPs or their respective AALs or classifications under RSA 125-I:4, II and III, and as a result of such revision the owner or operator is required to obtain or modify the permit under the provisions of RSA 125-I or RSA 125-C, the owner or operator shall have 90 days following publication of notice of such final revision in the New Hampshire Rulemaking Register to file a complete application for such permit or permit modification.	Facility Wide	RSA 125-I:5 IV
3.	<u>Control of Fugitive Dust</u> The owner or operator shall take precautions to prevent, abate, and control the emission of fugitive dust resulting from wood chip storage activities such as unloading, redistribution, and maintenance. Such precautions shall include but are not limited to wetting, covering, shielding, or vacuuming.	Facility wide	Env-A 1002.03
4.	<u>Activities Exempt from Visible Emission Standards</u> 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 and malfunction.	EU03, EU04 & EU05	Env-A 2002.04(c)

<sup>6</sup> 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 101.186.

<sup>7</sup> Env-A 1450.01, *Table of All Regulated Toxic Air Pollutants*, is typically updated annually. The updates can be found at <http://des.nh.gov/organization/commissioner/legal/rulemaking/index.htm#air>.

**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 5 below:

<b>Table 5 - Federally Enforceable Operational and Emission Limitations</b>			
<b>Item #</b>	<b>Applicable Requirement</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Cite</b>
1.	Wood for the wood-fired boiler shall be limited to wood chips uncontaminated by glues, preservatives, oils or similar substances. The owner or operator shall notify the department/USEPA of all proposed sources of wood fuel other than wood chips and of the nature of said fuels. The owner or operator shall obtain written permission from the department/USEPA prior to the securing of any purchase/utilization agreements for said fuels.	EU01	PSD Permit No. 043-149NH09
2.	The startup and shutdown periods for the wood-fired boiler are defined as follows: a.) Startup periods <sup>8</sup> are those periods of time from the initiation of wood firing until the unit reaches steady-state operation (85% to 100% load conditions). This period shall not exceed 8 hours (480 minutes) for a cold startup, nor 4 hours (240 minutes) for a hot startup. A cold startup shall be defined as startup when the boiler has been down for more than 24 hours. b.) Shutdown periods shall not exceed 4 hours (240 minutes) from the moment the wood fuel supply to the boiler is eliminated. c.) The number of hours that the boiler can operate in a startup or shutdown mode, on a calendar year basis, shall not exceed 15% of the total operating hours of the plant during that period.	EU01	PSD Permit No. 043-149NH09
3.	The wood-fired boiler is subject to the following opacity limits: a.) Startup/Shutdown Conditions Visible emissions from the boiler shall not exceed 20 percent (6-minute average), except for one 6-minute average per hour of not more than 27 percent opacity b.) Steady State Operating Conditions Visible emissions from the boiler shall not exceed 15 percent <sup>9</sup> (6-minute average), except for one 6-minute average per hour of not more than 27 percent opacity	EU01	PSD Permit No. 043-149NH09
4.	<u>Emission Standards for Nitrogen oxides</u> NO <sub>x</sub> emissions from the wood-fired boiler shall be limited to 86.8 lbs/hr and 0.3 lb/MMBtu, as averaged over any consecutive 24-hour period. Compliance with this emission limit shall be demonstrated using the NO <sub>x</sub> Continuous Emissions Monitoring System (CEMS) data. <sup>10</sup>	EU01	PSD Permit No. 043-149NH09

<sup>8</sup> The startup period clock shall begin once the combustion fans and automatic wood feed system are started.

<sup>9</sup> This limit is more stringent than the opacity limit specified in 40 CFR 60.43b(f), Subpart Db, Env-A 2002.02 and Env-A 2002.04(a).

<sup>10</sup> This device is subject to both the Prevention of Significant Deterioration (PSD) NO<sub>x</sub> limit of 0.3 lb /MMBtu and to the NO<sub>x</sub> Reasonable Achievable Control Technology (RACT) limit of 0.33 lb/MMBtu (Env-A 1304.04(b), *Steam Electric Boilers*, and Env-A 1305.15(a), *RACT Requirements: Boilers Firing Wood*), although the PSD limit shall take priority as the most stringent federally enforceable limit.

Table 5 - Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
5.	<u>Emission Standards for Carbon monoxide</u> a.) During steady state operating conditions, carbon monoxide emissions from the wood-fired boiler shall be limited to 0.5 lb/MMBtu heat input and 144.7 lbs/hr as averaged over any consecutive 24-hour period. Compliance with this emission limit shall be demonstrated using the CO CEMS data. b.) During startup and shutdown conditions, carbon monoxide emissions from the wood-fired boiler shall be limited to 144.7 lbs/hr as averaged over any consecutive 24-hour period.	EU01	PSD Permit No. 043-149NH09
6.	<u>Emission Standard for Particulate matter<sup>11</sup></u> Filterable particulate matter emissions from the wood-fired boiler shall be limited to 0.03 lb/MMBtu heat input and 8.7 lbs/hr at all times.	EU01	PSD Permit No. 043-149NH09
7.	<u>Emission Standard for Volatile Organic Compounds</u> Volatile organic compound emissions from the wood-fired boiler shall be limited to 0.096 lb/MMBtu heat input and 27.8 lbs/hr at all times.	EU01	PSD Permit No. 043-149NH09
8.	<u>Ammonia Slip Emissions Limit</u> Ammonia slip emissions from the wood-fired boiler shall be limited to 20 ppmvd @ 6% oxygen (O <sub>2</sub> ) dry volume.	EU1, PCE3, & PCE4	TP-B-0542
9.	<u>Fugitive Emission Control Requirements</u> Fugitive emissions from the facility shall not exceed 10% opacity at any time.	Facility wide	PSD Permit No. 043-149NH09
10.	<u>Visible Emission Standard for Fuel Burning Devices Installed After May 13, 1970</u> The average opacity from fuel burning devices installed after May 13, 1970 shall not exceed 20 percent for any continuous 6-minute period.	EU03, EU04 & EU05	Env-A 2002.02 (formerly Env-A 1202 effective 12-27-1990)
11.	<u>Particulate Emission Standards for Fuel Burning Devices Installed on or After January 1, 1985</u> Total suspended particulate matter emissions from fuel burning devices installed on or after January 1, 1985 shall not exceed 0.30 lb/MMBtu.	EU03, EU04 & EU05	Env-A 2003.03 (formerly Env-A 1202 effective 12-27-1990)
12.	<u>Emergency Generators</u> Each emergency generator shall only operate: 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; and c.) No emergency engine shall operate as a load-shaving or peaking power production unit.	EU03	Env-A 1302.15
13.	<u>Operating Hours Limitation</u> The emergency generator and the two fire pumps shall each be limited to 500 hours of operation during any consecutive 12-month period.	EU03, EU04 & EU05	Env-A 1301.02(j)(1)

<sup>11</sup> This permit condition has been streamlined to cover the following state and federal air regulations:

- a. The 0.1 lb/MMBtu emission limit contained in 40 CFR 60.43b(c)(1), Subpart Db, *New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units*; and
- b. The 0.10 lb/MMBtu emission limit contained in Env-A 2003.03 *Particulate Emission Standards for Fuel Burning Devices Installed on or After January 1, 1985*.



Table 5 - Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
14.	<u>Maximum Sulfur Content Allowable in Liquid Fuels</u> The sulfur content of No. 2 oil shall not exceed 0.40 percent sulfur by weight.	EU03, EU04 & EU05	Env-A 1603.01(a) (formerly Env-A 402 effective 12-24-1990)
15.	<u>Operating Limitations for Existing Emergency Engines</u> In addition to the operating hours limitation in Table 5, Item 13, the owner or operator may operate the emergency engine for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission organization or equivalent balancing authority and transmission operator, or the insurance company associated with the engine, for a maximum of 100 hours per calendar year <sup>12</sup> .	EU03, EU04 & EU05	40 CFR 63.6640(f) (Subpart ZZZZ)
16.	<u>RICE NESHP - Existing Emergency Engines</u> The owner or operator of all existing emergency engines subject to 40 CFR 63, Subpart ZZZZ shall: a.) Change oil and filter annually, or in accordance with an Oil Analysis Program prepared and implemented as specified in §63.6625(i) ; b.) Inspect the air cleaner annually and replace as necessary; c.) Inspect all hoses and belts annually and replace as necessary; d.) Operate and maintain the stationary engine according to the manufacturer's emission-related written instructions (O&M manual) or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions; and e.) Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	EU03, EU04 & EU05	40 CFR 63.6603 & 40 CFR 63.6625 (Subpart ZZZZ)

<sup>12</sup> The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that federal, state, or local standards require maintenance and testing of emergency engine beyond 100 hours per calendar year.

Table 5 - Federally Enforceable Operational and Emission Limitations			
Item #	Applicable Requirement	Applicable Emission Unit	Regulatory Cite
17.	<p><u>NESHAP General Provisions</u></p> <p>At all times, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require the owner or operator to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the USEPA, Region I and the department that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.</p> <p>a.) For boilers subject to the work practice standard, emission reduction measure, and management practice requirements specified in 40 CFR 63.11201, the Owner or Operator must comply at all times the affected boiler is operating.</p> <p>b.) For emergency engines subject to 40 CFR 63, Subpart ZZZZ, the Owner or Operator shall maintain compliance with the emission limitations and operating limitations in Subpart ZZZZ that apply to the Owner/Operator at all times.</p>	EU01, EU03, EU04 & EU05	40 CFR 63.11201, 40 CFR 63.11205 (Subpart JJJJJ) & 40 CFR 63.6605 (Subpart ZZZZ)
18.	<p><u>NSPS General Provisions</u></p> <p>a.) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source;</p> <p>b.) For the purpose of submitting compliance certifications or establishing whether or not a person has violated or is in violation of any standard in this part, nothing in this part shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.</p>	EU01	40 CFR 60.11(d) & 40 CFR 60.11(g)
19.	<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> <p>a.) Identify potential hazards which result from such releases using appropriate hazard assessment techniques;</p> <p>b.) Design and maintain a safe facility;</p> <p>c.) Take steps necessary to prevent releases; and</p> <p>d.) Minimize the consequences of accidental releases that do occur.</p>	Facility wide	CAAA 112(r)(1)

**C. Emission Reductions Trading Requirements**

The owner or operator did not request emissions reductions trading in its operating permit application. At this point, the department 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 6 below:

<b>Table 6 - Monitoring/Testing Requirements</b>					
<b>Item #</b>	<b>Parameter</b>	<b>Method of Compliance</b>	<b>Frequency of Method</b>	<b>Device</b>	<b>Regulatory Cite</b>
1.	Opacity	Operate and maintain a continuous opacity monitoring system (COMS) for measuring the opacity of emissions from the wood-fired boiler <sup>13</sup> . Determination of compliance with the opacity limits established in Table 5, Item #3 shall be made by the COMS or, during any COMS downtime, by visible emission readings taken once per shift following the procedures specified in 40 CFR 60, Appendix A, Method 9.	Continuous	EU01	PSD Permit No. 043-149NH09
2.	NO <sub>x</sub>	Operate and maintain a continuous emissions monitoring system (CEMS) to measure the emissions of nitrogen oxides from the wood-fired boiler. The NO <sub>x</sub> CEMS shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2 and Env-A 808. Determination of compliance with the NO <sub>x</sub> emission limits established in Table 5, Item #4 shall be made by the NO <sub>x</sub> CEMS.	Continuous	EU01	PSD Permit No. 043-149NH09
3.	CO	Operate and maintain a CEMS for measuring the emissions of carbon monoxide from the wood-fired boiler. The CO CEMS shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 4 and Env-A 808. Determination of compliance with the CO emission limits established in Table 5, Item #5 shall be made by the facility CO CEMS.	Continuous	EU01	PSD Permit No. 043-149NH09
4.	O <sub>2</sub>	Operate and maintain a CEMS for measuring the oxygen (O <sub>2</sub> ) content of the flue gas from the wood-fired boiler. The O <sub>2</sub> CEMS shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 3 and Env-A 808.	Continuous	EU01	PSD Permit No. 043-149NH09

<sup>13</sup> The COMS shall meet the applicable requirements of 40 CFR 60, Appendix B, Performance Standard 1; Appendix F, Procedure 3; and Env-A 808.

**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
5.	Volumetric flow	Operate and maintain a stack volumetric flow measuring device for measuring stack flow from the wood-fired boiler which meets the following requirements: a.) All differential pressure flow monitors shall have an automatic blow-back purge system installed, and in wet stack conditions, shall have the capability for drainage of the sensing lines; b.) The stack flow monitoring system shall have the capability for manual calibration of the transducer and for a zero check; and c.) Alternatives to in-stack flow monitoring devices for determination of stack volumetric flow rate may be used if the owner or operator provides the department with technical justification that the alternative can meet the same requirements for data availability, data accuracy, and quality assurance as an in-stack device.	Continuous	EU01	Env-A 808.03(d) & (e)
6.	Continuous steam flow monitor	Operate and maintain a continuous steam flow rate monitoring system for measuring steam production from the wood-fired boiler output steam pipe which meets the following requirements: a.) The steam flow rate monitoring system shall meet all applicable ASME specifications; b.) The steam flow transducer shall be calibrated at least once annually in accordance with manufacturer's specifications; and c.) If adequate straight length of piping is not available, then in lieu of a measuring system that meets ASME specifications, the owner or operator may use a steam flow rate monitoring system that can be calibrated by instruments installed, maintained and calibrated per ASME specifications or by other methods approved by the department.	As specified	EU01	PSD Permit No. 043-149NH09
7.	Urea Flow to SNCR & SCR	a.) Operate a urea flow monitor for measuring urea flow to the SNCR and SCR when they are in operation; b.) The urea flow meter shall be inspected and maintained in accordance with manufacturer's recommendations.	Continuous  Calibrate in accordance with manufacturer's recommendation	PCE3 & PCE4	TP-B-0542
8.	SCR Catalyst Bed Temperature	a.) Operate temperature monitor for measuring the temperature of the SCR catalyst bed(s); b.) The temperature monitor shall be inspected and maintained in accordance with manufacturer's recommendations.	Continuous  Calibrate in accordance with manufacturer's recommendation	PCE4	TP-B-0542

Table 6 - Monitoring/Testing Requirements					
Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
9.	Stack Testing Requirements for particulate matter and ammonia slip	<p>Conduct compliance stack testing for total suspended particulate and ammonia slip. Particulate test results will be used to evaluate compliance with the particulate emission limit in Table 5, Item #6. Ammonia test results will be used to evaluate compliance with the ammonia slip emission limit in Table 5, Item #8. Compliance stack testing shall be planned and carried out in accordance with the following schedule:</p> <ul style="list-style-type: none"> <li>a.) A pre-test protocol shall be submitted to the department at least 30 days prior to the commencement of testing. The pre-test protocol shall contain the information specified in Env-A 802.04;</li> <li>b.) The owner or operator and any contractor retained by the owner or operator to conduct the test shall meet with a department representative at least 15 days prior to the test date to finalize the details of the testing;</li> <li>c.) A test report shall be submitted to the department within 60 days after the completion of testing. The test report shall contain the information specified in Env-A 802.11(c);</li> <li>d.) Method 5, or department approved alternatives, shall be used to measure the concentration of particulate matter; and</li> <li>e.) Ammonia slip shall be determined using the department-approved method.</li> </ul>	Every 5 years for particulate matter & annually for ammonia slip	EU01	TP-B-0542, 40 CFR 70.6(a)(3) & Env-A 802
10.	General Stack Testing Requirements	<p><u>Operating Conditions During a Stack Emissions Test</u></p> <p>A compliance test shall be conducted under one of the following operating conditions:</p> <ul style="list-style-type: none"> <li>a.) Between 90 and 100 percent, inclusive, of maximum production rate or rated capacity;</li> <li>b.) A production rate at which maximum emissions occur; or</li> <li>c.) At such operating conditions agreed upon during a pre-test meeting conducted pursuant to Env-A 802.05.</li> </ul>	As specified	EU01	Env-A 802.10

**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
11.	Minimum Specifications for CEM Systems	The owner or operator shall ensure that each CEMS meets the following operating requirements: a.) The COMS for measuring opacity emissions shall average the opacity data to result in consecutive, non-overlapping 6-minute averages; b.) The CEMS for measuring gaseous emissions shall average and record the data for each calendar hour; c.) All COMS and CEMS shall include a means to display instantaneous values of percent opacity and gaseous emission concentrations and complete a minimum of one cycle of operation which shall include measuring, analyzing, and data recording for each 10-second period for systems measuring opacity and each successive 5-minute period for systems measuring gaseous emissions, unless a longer time period is approved in accordance with Env-A 809; and d.) A valid hour of COM/CEM emissions data, as defined in Env-A 808.01(i), means a minimum of 42 minutes of COMS/CEMS readings taken in any calendar hour, during which the COMS/CEMS is not in an out of control period, as defined in Env-A 808.01(g), and the facility is in operation.	N/A	EU01	Env-A 808.03
12.	QA/QC Plan Requirements	The owner or operator shall perform the following quality assurance/quality control (QA/QC) activities for the COMS and CEMS systems: a.) Prepare a QA/QC plan, which shall contain written procedures for implementation of its QA/QC program, that meets the criteria specified in 40 CFR 60, Appendix F, Procedure 1, Section 3 for each CEM system; b.) Review the QA/QC plan and all data generated by its implementation at least once each year; c.) Revise or update the QA/QC plan, as necessary, based on the results of the annual review, by: 1.) Documenting the replacement of any damaged or malfunctioning COM/CEM system components in order to maintain the collection of valid COM/CEM data and to maximize data availability; 2.) Documenting any changes made to the COM/CEM or changes to any information provided in the monitoring plan submitted in accordance with Env-A 808.04; 3.) Including a schedule of, and describing, all maintenance activities that are required by the COM/CEM manufacturer or that might have an effect on the operation of the system; 4.) Describing how the audits and testing required by Env-A 808 will be performed; and	Review annually and revise as necessary	EU01	Env-A 808.06

**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
		5.) Including examples of the reports that will be used to document the audits and tests required by Env-A 808; d.) Make the revised QA/QC plan available for on-site review by the department at any time; and e.) No later than April 15 of each year, either: f.) Submit to the department the revised QA/QC plan and the reasons for each change, and certify in writing that the Owner or Operator is implementing the revised QA/QC plan; or g.) Certify in writing that no changes have been made to the plan and that the Owner or Operator will continue to implement the existing QA/QC plan.			
13.	General Audit Requirements for all CEM & COM Systems	The owner or operator shall audit each COMS/CEMS in accordance with the following: a.) Required quarterly audits anytime during each calendar quarter, provided that successive quarterly audits shall occur no more than 4 months apart. b.) Subject to (d), below, within 30 calendar days following the end of each quarter, the Owner or Operator shall submit to the department a written summary report of the results of all audits required by (a), above, that were performed during that quarter, in accordance with the following: 1.) For gaseous CEM audits, the report format shall conform to that presented in 40 CFR 60, Appendix F, Procedure 1; and 2.) For COM audits, the report format shall conform to that presented in EPA-600/8-87-025, April 1992, "Technical Assistance Document: Performance Audit Procedures for Opacity Monitors". c.) The owner or operator shall notify the department: 1.) At least 30 days prior to the performance of a Relative Accuracy Test Audit (RATA); and 2.) At least 2 weeks prior to any other planned audit or test procedure required under Env-A 808. d.) The owner or operator shall file with the department a written summary of the results of the RATA testing required by Env-A 808.08 by the earlier of 45 calendar days following the completion of the RATA test or the date established in the section of 40 CFR 60 that requires performance of the RATA.	Quarterly	EU01	Env-A 808.07
14.	Gaseous CEM Audit Requirements	Audit requirements for gaseous CEMS shall be performed in accordance with procedures described in 40 CFR 60, Appendix F and Env-A 808.08.	Quarterly	EU01	Env-A 808.08
15.	COMS Audit Requirements	Audit requirements for COMS shall be performed in accordance with procedures described in Env-A 808.11 and 40 CFR 60, Appendix F, Procedure 3, Section 10.3.	Quarterly and Annually, as specified	EU01	Env-A 808.11

**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
16.	Data Availability Requirements	a.) The owner or operator shall operate the COM/CEM systems at all times during operation of the source, except for periods of COM/CEM breakdown, repairs, calibration checks, preventive maintenance, and zero/span adjustments; and b.) The percentage COM/CEM data availability for opacity, gaseous concentration, and stack volumetric flow monitors shall be maintained at a minimum of 90% on a calendar quarter basis.	N/A	EU01	Env-A 808.12
17.	Data Availability Calculations	The owner or operator shall use the following equation for calculating percentage data availability: $\text{Percentage Data Availability} = \frac{\text{VH} + \text{CalDT}}{\text{OH} - \text{AH}} \times 100$ Where: VH = Number of valid hours of COM/CEM data in a given time period for which the data availability is being calculated when the plant is in operation; CalDT = Number of hours, not to exceed one hour per day, during facility operation when the COM/CEM is not operating due to the performance of the daily COM/CEM calibrations as required in 40 CFR 60, Appendix F; OH = Number of facility operating hours during a given time period for which the data availability is being calculated; and AH = Number of hours during facility operation when the performance of quarterly audits as required by those procedures specified in Env A 808.08 through Env-A 808.11, as applicable, require that the COM/CEM be taken out of service in order to conduct the audit.	As specified	EU01	Env-A 808.12, 40 CFR 60 Subpart A Section 60.7(b)
18.	Audit requirements for the stack flow monitor	a.) Whenever compliance with a mass flow emissions limit is determined using a stack flow volumetric monitor, the owner or operator shall conduct, at least once every 4 calendar quarters, a minimum 9-run RATA with the relative accuracy calculated in the units of the mass emissions measurement as specified in 40 CFR 60, Appendices B and F; b.) The owner or operator of a stationary source subject to a. above, and using a stack volumetric flow monitor for the mass flow emissions calculation shall in addition to the 9-run RATA, also perform one of the audit options specified in Env-A 808.09 or Env-A 808.10.	As specified	EU01	Env-A 808.08(e) & (f)



**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
19.	Requirement for Substitute Emission Data	<p>Any facility that uses the emissions data collected by a gaseous CEM system to calculate and report its annual emissions in accordance with Env-A 900 shall comply with the following:</p> <p>a.) For any facility operating hour during which the gaseous CEM system has not collected a valid hour of CEM system data, the Owner or Operator shall submit to the Division substitute emission data for those hours which has been generated using one of the following methods:</p> <ol style="list-style-type: none"> <li>1.) The missing data substitution procedures specified in 40 CFR 75, Subpart D;</li> <li>2.) If the missing data occurred during a period of steady-state operation, and not during a period of start-up, shutdown, or malfunction:                             <ol style="list-style-type: none"> <li>i.) An average of the emissions data for the hours prior to and after the period of missing data during which valid CEM data was collected, or</li> <li>ii.) Representative emissions data for the device at the same heat input rate, electric generating rate, or steam load;</li> </ol> </li> <li>3.) If the missing data occurred during a start-up, shutdown, or malfunction of the device, substitute data collected by the CEM during a similar period of start-up, shutdown or malfunction, respectively; or</li> <li>4.) An alternative method of data substitution that meets the following criteria:                             <ol style="list-style-type: none"> <li>i.) The alternative method was included in the monitoring plan submitted pursuant to Env-A 808.04;</li> <li>ii.) The alternative method provides for representative emissions for the conditions of operation of the device during the period of missing data equivalent to the substitution methods described in (i) through (iii), above; and</li> <li>iii.) The alternative method was approved by the department as part of its approval of the monitoring plan pursuant to Env-A 808.04.</li> </ol> </li> </ol> <p>b.) For CEM systems and emissions not subject to the missing data substitution procedures of 40 CFR 75 Subpart D, sources shall include substitute emissions data in the calculation of total daily, monthly, quarterly, and annual emissions generated by the permitted device to quantify total actual emissions;</p>	N/A	EU01	Env-A 808.13

Table 6 - Monitoring/Testing Requirements					
Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
19. cont.	Requirement for Substitute Emission Data	c.) Substitute emission data shall not be used in the calculation of emissions totals or averages in order to determine or demonstrate compliance with emissions standards; d.) Substitute data shall not be included in the calculation of data availability.	N/A	EU01	Env-A 808.13
20.	Valid averaging period	The number of hours of valid COM/CEM system data required for the calculation and determination of compliance with a 24-hour emission standard period shall be 18 hours of valid data.	N/A	EU01	Env-A 808.17
21.	Boiler Tune-up	The biennial tune-up of the boiler shall consist of the following: a.) As applicable, inspect the burner, and clean or replace any components of the burner as necessary; <sup>14</sup> b.) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications if available; c.) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly; d.) Optimize total emissions of carbon monoxide, consistent with the manufacturer's specifications, if available, and with any NOx requirement to which the unit is subject; and e.) Measure the concentration in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made. <sup>15</sup>	Biennially <sup>16</sup>	EU01	40 CFR 63.11201(b) & 40 CFR 63.11223 Subpart JJJJJ
22.	Sulfur Content of Liquid Fuels	Conduct testing in accordance with appropriate ASTM test methods or retain delivery tickets in accordance with Table 7, Item #8 in order to demonstrate compliance with the sulfur content limitation provisions specified in this permit for liquid fuels.	For each delivery of fuel oil/diesel to the facility	Facility Wide	Env-A 806.05
23.	Hours of Operation	Emergency generator and fire pumps shall each be equipped with a non-resettable hour meter.	Continuous	EU03, EU04 & EU05	40 CFR 63.6625 Subpart ZZZZ

<sup>14</sup> The burner inspection may be delayed until the next scheduled unit shutdown, but must be inspected at least once every 36 months.

<sup>15</sup> Measurements may be either on a dry or wet basis, as long as it is the same basis, before and after the adjustments are made. Measurements may be taken with a portable CO analyzer.

<sup>16</sup> Each biennial tune-up must be conducted no more than 25 months after the previous tune-up [§63.11223(a)]. In addition, if the unit is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup. [§63.11223(b)(7)]

**Table 6 - Monitoring/Testing Requirements**

Item #	Parameter	Method of Compliance	Frequency of Method	Device	Regulatory Cite
24.	Periodic Monitoring	If the indicator ranges specified in Tables 6A and 6B, Item #2 accumulate exceedances over 5% of the rolling 12-month total operating time for PCE1 and PCE2, the Owner or Operator shall prepare and submit a Quality Improvement Plan (QIP) to the department. The QIP shall include procedures for evaluating the control performance problems. Based on the evaluation, the Owner or Operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate: a.) Improve preventive maintenance practices; b.) Operational changes; c.) Appropriate improvements to control methods; d.) Other steps to improve control performance; and e.) More frequent or improved monitoring.	Continuous	PCE1 & PCE2	40 CFR 64.8

**Table 6A - Compliance Assurance Monitoring (CAM) - 40 CFR 64  
Electrostatic Precipitator (ESP) for the control of Particulate Matter**

Indicator	Indicator No. 1 - Secondary Voltage	Indicator No. 2 - Inspection/Maintenance
1. Measurement Approach	Secondary voltage is transmitted through a serial connection which sends the signal to a data acquisition system. Standard voltmeters are used as backup. All three ESP fields must be in operation.	<ul style="list-style-type: none"> <li>a.) Inspections shall be conducted according to the I/M checklist;</li> <li>b.) Inspections of casing, piping, ducts, and ash conveyor for leaks, abnormal noise, hot spots, and fires;</li> <li>c.) Inspection of the ash hopper, high-level probes and remote alarms for correct operation; and</li> <li>d.) Maintenance performed as needed.</li> </ul>
2. Indicator Range	The indicator range is a secondary voltage between 15 kilovolts and 60 kilovolts for each field, with all three fields of the ESP in operation. Excursions <sup>17</sup> trigger an inspection, corrective action, and a reporting requirement.	<p>Failure to perform an inspection triggers a reporting requirement.</p> <p>Failure of mechanical inspections listed in Item 1 above, triggers corrective action, and recordkeeping requirement.</p>
3. Performance Criteria		
a.) Data Representativeness	The minimum accuracy of the secondary voltage readings is $\pm 3\%$ of span.	Inspections are performed at the ESP.
b.) QA/QC Practices and Criteria	<p>The local secondary voltmeter shall be calibrated annually and the results recorded.</p> <p>The Permittee shall maintain the monitoring equipment at all times, including but not limited to, maintaining necessary parts for routine repair and maintenance.</p>	Inspections shall be conducted by qualified personnel.
c.) Monitoring Frequency	The secondary voltage shall be recorded once per shift.	<ul style="list-style-type: none"> <li>a.) Annual inspection according to the I/M checklist;</li> <li>b.) Once per shift inspections shall include inspections of casing, piping, ducts, and ash conveyor for leaks, abnormal noise, hot spots, and fires; and</li> <li>c.) Annual inspections shall include inspection of the ash hopper, high-level probes and remote alarms for correct operation.</li> </ul>
1.) Data Collection Procedure	Records to be maintained on standard operating logs.	Record results of all inspection and maintenance in a logbook.
2.) Averaging Period	NA	NA

<sup>17</sup> Excursion shall mean a departure from an indicator range established for monitoring under 40 CFR 64, consistent with any averaging period specified for averaging the results of the monitoring.

<b>Table 6B - Compliance Assurance Monitoring (CAM) - 40 CFR 64 Multiclone for the control of Particulate Matter</b>		
<b>Indicator</b>	<b>Indicator No. 1 - Pressure differential across the multiclone</b>	<b>Indicator No. 2 - Inspection/Maintenance</b>
1. Measurement Approach	Measurement of pressure using a pressure transmitter to data acquisition system.	a.) Inspections shall be conducted according to the I/M checklist including inspection of the inlet and outlet vanes and boots for any buildup of caked dust; b.) Inspections of the multiclone shall include checking for any apparent abnormalities or damage that would cause air leakage into the unit; and c.) Maintenance performed as needed.
2. Indicator Range	The indicator range is a pressure differential reading between 2" and 8" of water column. Excursions trigger an inspection, corrective action, and a reporting requirement.	Failure to perform an inspection triggers a reporting requirement. Failure of mechanical inspections listed in Item 1 above, triggers corrective action, and recordkeeping requirement.
3. Performance Criteria		
a.) Data Representativeness	The pressure transmitter is located at the inlet and outlet of multiclone. The minimum accuracy of the transmitter is $\pm 0.5$ inches of water column.	Inspections are performed at the multiclone.
b.) QA/QC Practices and Criteria	The pressure transmitter shall be calibrated annually.	Inspections shall be conducted by qualified personnel.
c.) Monitoring Frequency	Differential pressure shall be recorded once per shift.	a.) Annual inspection according to the I/M checklist including inspection of the inlet and outlet vanes and boots for any buildup of caked dust; and b.) Daily Inspections of the multiclone shall include checking for any apparent abnormalities or damage that would cause air leakage into the unit.
1.) Data Collection Procedure	Records to be maintained on standard operating logs.	Record results of all inspection and maintenance in a logbook.
2.) Averaging Period	NA	NA

**E. Recordkeeping Requirements**

The owner or operator shall be subject to the recordkeeping<sup>18</sup> requirements identified in Table 7 below:

<b>Table 7 - Applicable Recordkeeping Requirements</b>				
<b>Item #</b>	<b>Applicable Recordkeeping Requirement</b>	<b>Records Retention/Frequency</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Citation</b>
1.	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.	Maintain records of actual emissions for each significant activity for determination of emission based fees.	Annually	EU01 – EU05	Env-A 705.02
3.	<u><i>Air Pollution Control Device Operational Records</i></u> Maintain records of all malfunctions, routine maintenance, and other downtimes of any air pollution control equipment in whole or part. These records must be available for review by the department/USEPA upon request.	At each occurrence	PCE1, PCE2, PCE3 & PCE4	Env-A 906.01, & 40 CFR 60 Subpart A Section 60.7(b)
4.	<u><i>General Recordkeeping Requirements for Sources with Continuous Emissions Monitoring Systems</i></u> Maintain records for the CEMS and COMS specified in Table 6, Items 1 through 5 in accordance with Env-A 800 and all applicable federal regulations. The records shall be maintained in a permanent form suitable for inspection.	As specified in Env-A 800 and applicable federal requirements	EU01	Env-A 903.04, 40 CFR 60 Subpart A Section 60.7(f), 40 CFR 60 Subpart Db Section 60.49b(f)
5.	<u><i>General Recordkeeping Requirements for Combustion Devices</i></u> Maintain the following records of fuel characteristics and utilization for the fuel used in each fuel burning device at the facility: a.) Consumption; b.) Fuel type; and c.) Hours of operation for the emergency generator and the fire pumps.	Monthly	EU03, EU04 & EU05	Env-A 903.03
6.	<u><i>NSPS Fuel Consumption Recordkeeping</i></u> Maintain records of the amount of fuel combusted in the wood-fired boiler.	Daily	EU01	40 CFR 60.49b(d)
7.	<u><i>Records on Process Operations</i></u> Monthly records of the type and quantity of boiler and cooling tower treatment chemicals used that are necessary to calculate emissions.	Monthly	EU01 & EU02	Env-A 903.02

<sup>18</sup> 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 “State-only Enforceable”.

<b>Table 7 - Applicable Recordkeeping Requirements</b>				
<b>Item #</b>	<b>Applicable Recordkeeping Requirement</b>	<b>Records Retention/Frequency</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Citation</b>
8.	<p><u>Liquid Fuel Oil Recordkeeping Requirements</u></p> <p>In lieu of sulfur testing pursuant to Table 6, Item #22, the owner or operator may maintain fuel delivery tickets that contain 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>	Whenever there is a change in fuel supplier but at least annually	EU03, EU04 & EU05	Env-A 806.05
9.	<p><u>General NOx Recordkeeping Requirements</u></p> <p>If the actual annual NOx 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"> <li>a.) Identification of each fuel burning device;</li> <li>b.) Operating schedule during the high ozone season (June 1 through August 31) for each fuel burning device identified in Table 7, Item 9a, above, including:                             <ul style="list-style-type: none"> <li>1.) Typical hours of operation per day;</li> <li>2.) Typical days of operation per calendar month;</li> <li>3.) Type and amount of fuel burned;</li> <li>4.) Design heat input rate in MMBtu/hr;</li> <li>5.) The following NOx emission data:                                     <ul style="list-style-type: none"> <li>i.) Actual NOx emission per month;</li> <li>ii.) Typical high ozone day NOx emissions; in pounds per day; and</li> <li>iii.) Emission factors and the origin of the emission factors used to calculate the NOx emissions.</li> </ul> </li> </ul> </li> </ul>	Maintain Data for Annual Report	EU01 – EU05	Env-A 905.02
10.	<p><u>SCR &amp; SNCR Recordkeeping Requirements</u></p> <p>Maintain records of the following information for the SCR and SNCR systems in accordance with the required timeframes:</p> <ul style="list-style-type: none"> <li>a.) Total urea usage in gallons;</li> <li>b.) Average daily urea flow in gal/hr;</li> <li>c.) Ratio of average daily urea flow rate in gal/hr to the average daily NOx emission rate in lb/hr, for the purpose of evaluating PCE performance; and</li> <li>d.) Average daily SCR catalyst bed temperature in deg °F.</li> </ul>	Daily	PCE3 & PCE4	Env-A 906 & TP-B-0542
11.	<p><u>Recordkeeping Requirements for Add-On NOx Control Equipment</u></p> <p>The owner or operator shall record and maintain the following information:</p> <ul style="list-style-type: none"> <li>a.) Air pollution control device identification number, type, model number, and manufacturer;</li> <li>b.) Installation date;</li> <li>c.) Unit(s) controlled;</li> <li>d.) Type and location of the capture system, capture efficiency percent, and method of determination; and</li> <li>e.) Information as to whether the air pollution control</li> </ul>	Maintain at the facility at all times	PCE3 & PCE4	Env-A 905.03 & TP-B-0542

<b>Table 7 - Applicable Recordkeeping Requirements</b>				
<b>Item #</b>	<b>Applicable Recordkeeping Requirement</b>	<b>Records Retention/Frequency</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Citation</b>
	device is always in operation when the fuel burning device it is serving is in operation.			
12.	The owner or operator shall maintain the following records: a.) Records of stack testing conducted in accordance with Table 6, Item #9; and b.) To meet the requirements of Item #3 of Table 5, the owner or operator shall record the number of hours that the facility is operated in startup or shutdown modes, the total number of hours of operation and the total number of hours that the facility is down for maintenance and repairs. This information shall be used to demonstrate that the number of hours that the boiler operates in a startup or shutdown mode does not exceed 15% of the total operating hours of the plant.	Maintain on a continuous basis	EU01	40 CFR 70.6(a)(3)(iii)(A), 40 CFR 60 Subpart A Section 60.7(b) & (f), 40 CFR 63.11225(c) & (d)
13.	<u>Additional Recordkeeping Requirements</u> The owner or operator shall record the average daily steam production in lb/hr.	Daily	EU01	Env-A 906
14.	<u>Operation Log for the Emergency Generator &amp; Fire pumps</u> The owner or operator shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.	Keep a running Log	EU03, EU04 & EU05	40 CFR 63.6655 Subpart ZZZZ
15.	<u>Additional 40 CFR 63, Subpart JJJJJ Recordkeeping</u> Maintain the following records: a.) Each notification and report that was submitted, including all documentation supporting Initial Notifications, or Notification of Compliance Status submitted; b.) For each boiler required to conduct an energy assessment, keep a copy of the energy assessment report; c.) Records documenting conformance with the biennial boiler tune-up required by Table 6, Item 21 including: 1.) Records identifying each boiler; 2.) The date of tune-up; 3.) The procedures followed for tune-up; and 4.) The manufacturer’s specifications to which the boiler was tuned. d.) The occurrence and duration of each malfunction of the boiler <sup>19</sup> ; e.) Actions taken during periods of malfunction to minimize emission in accordance with the general duty	Maintain on a continuous basis	EU01	40 CFR 63.11225(c) & 40 CFR 63.11223(b)(6) Subpart JJJJJ

<sup>19</sup> Records of any malfunctions of the boiler are also required under 40 CFR 60.7(b).



<b>Table 7 - Applicable Recordkeeping Requirements</b>				
<b>Item #</b>	<b>Applicable Recordkeeping Requirement</b>	<b>Records Retention/Frequency</b>	<b>Applicable Emission Unit</b>	<b>Regulatory Citation</b>
	to minimize emissions in Table 5, Item 18, including corrective actions to restore the malfunctioning boiler to its normal or usual manner of operation; and f.) The records must be in a form suitable and readily available for expeditious review.			
16.	<u>Regulated Toxic Air Pollutants</u> The Owner or Operator shall maintain records documenting compliance with Env-A 1400. Compliance was demonstrated at the time of permit issuance as described in the department’s Application Review Summary for application #14-0464. The source must update the compliance demonstration using one of the methods provided in Env-A 1405 if: a.) There is a revision to the list of RTAPs lowering the AAL or De minimis Value for any RTAP emitted from the Facility; b.) The amount of any RTAP emitted is greater than the amount that was evaluated in the Application Review Summary (e.g., use of a coating will increase); c.) An RTAP that was not evaluated in the Application Review Summary will be emitted (e.g. a new coating will be used); or d.) Stack conditions (e.g. air flow rate) change.	Update prior to process changes or within 90 days of each revision of Env-A 1400	Facility Wide	Env-A 902.01 State-only Enforceable
17.	<u>Quality Improvement Plan</u> Prepare and submit a QIP when the conditions in Table 6, Item #24 are met.	Initially within 180 days of becoming subject to this condition	PCE1 & PCE2	40 CFR 64.8
18.	Recordkeeping of deviations from Permit requirements shall be conducted in accordance with Section XXV of this Permit.	Maintain up-to-date data	Facility Wide	Env-A 911

**F. Reporting Requirements**

1. Pursuant to Env-C 203.02(b), *Date of Issuance or Filing*, written documents shall be deemed to have been filed with or received by the department on the actual date of receipt by the department, as evidenced by a date stamp placed on the document by the department in the normal course of business.
2. All emissions data submitted to the department shall be available to the public. Claims of confidentiality for any other information required to be submitted to the department pursuant to this permit shall be made at the time of submission in accordance with Env-A 103, *Claims of Confidentiality*.
3. The owner or operator shall be subject to the reporting requirements identified in Table 8 below.

**Table 8 - Applicable Reporting Requirements**

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
1.	Any report submitted to the department and/or USEPA shall include the certification of accuracy statement outlined in Section XIX.B. of this Permit and shall be signed by the responsible official.	As specified in Section XIX.B.	Facility Wide	40 CFR 70.6(c)(1)
2.	<p><u>Annual Emissions Report</u>                      Submit an annual emissions report which shall include the following information:</p> <p>a.) Actual calendar year emissions from each device of NO<sub>x</sub>, CO, SO<sub>2</sub>, VOCs, total filterable and condensable PM, filterable PM<sub>10</sub>, filterable PM<sub>2.5</sub>, HAPs (speciated by individual HAP and reported by CAS number), CO<sub>2e</sub>, ammonia, lead, and RTAPs (speciated by individual RTAP and reported by CAS number)<sup>20</sup>;</p> <p>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 Fee</i>; and</p> <p>c.) All information recorded in accordance with Table 7, Items 5, 6 and 7, compiled on a monthly basis.</p>	Annually (received by the department no later than April 15 <sup>th</sup> of the following year)	EU01 – EU05	Env-A 907.02 (formerly Env-A 907.01 effective 4-21-07)
3.	<p><u>Semi-annual Permit Deviation and Monitoring Report</u>                      Submit a semi-annual permit deviation and monitoring report, which contains:</p> <p>a.) Summaries of all monitoring and testing requirements contained in this permit; and</p> <p>b.) A summary of all permit deviations and excursions that have occurred during the reporting period.</p>	Semi-annually by received by the department no later than July 31 <sup>st</sup> and January 31 <sup>st</sup> of each calendar year.	Facility Wide	Env-A 911 & 40 CFR 70.6(a)(3)(iii)(A)
4.	<p><u>NSPS Subpart Db Excess Emissions Reports for Opacity</u></p> <p>a.) Any affected facility subject to the opacity standards under 40 CFR 60.43b(f) shall submit to USEPA - Region I excess emissions reports for any excess emissions that occurred during the reporting period.</p> <p>b.) For the purpose of 40 CFR 60.43b, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the standard specified in Table 5, Item 3a.                      The address for USEPA Region 1 is:                      USEPA New England                      Attn: Air Compliance Clerk                      5 Post Office Square                      Suite 100 (OES04-2)                      Boston, MA 02109-3912</p> <p>c.) The owner or operator may submit electronic quarterly reports for opacity in lieu of written reports. The electronic reports shall be submitted in accordance with 40 CFR 60.49b(v).</p>	Postmarked within 30 days of the end of the 6-month reporting period	EU01	40 CFR 60.49b(h), (v) & (w) subpart Db
5.	<p><u>Quarterly Emission Report</u>                      Submit to the department emission reports containing the following information:</p> <p>a.) Excess emission data recorded by the CEM system, including:</p>	Quarterly (received by the department no later than 30 days following the end	EU01	Env-A 808.13, Env-808.14, Env-A 808.15, Env-A 808.18, Env-A 910 & TP-B-0542

<sup>20</sup> The required list of pollutants to be included in the annual report is listed in the currently state-approved regulation, Env-A 907.02 and is more stringent than the SIP-approved version of the rule.

**Table 8 - Applicable Reporting Requirements**

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
	<ol style="list-style-type: none"> <li>1.) The date and time of the beginning and ending of each period of excess emission;</li> <li>2.) The actual emissions measured by the CEM system during the excess emissions;</li> <li>3.) The total amount of emissions above the emission limit, or percent above the emission limit, during the period of excess emissions;</li> <li>4.) The specific cause of the excess emission; and</li> <li>5.) The corrective action taken.</li> </ol> <p>b.) If no excess emissions have occurred, a statement to that effect;</p> <p>c.) For gaseous measuring CEM systems, the daily averages of the measurements made and emission rates calculated;</p> <p>d.) A statement as to whether the CEM system was inoperative, repaired, or adjusted during the reporting period;</p> <p>e.) If the CEM system was inoperative, repaired, or adjusted during the reporting period, the following information:</p> <ol style="list-style-type: none"> <li>1.) The date and time of the beginning and ending of each period when the CEM was inoperative;</li> <li>2.) The reason why the CEM was inoperative; and</li> <li>3.) The corrective action taken.</li> </ol> <p>f.) For all “out of control periods” the following information:</p> <ol style="list-style-type: none"> <li>1.) Beginning and ending times of the out of control period;</li> <li>2.) The reason for the out of control period; and</li> <li>3.) The corrective action taken.</li> </ol> <p>g.) The date and time of the beginning and ending of each period when the source of emissions which the CEM system is monitoring was not operating;</p> <p>h.) The span value, as defined in Env-A 101.178, and units of measurement for each analyzer in the CEM system; and</p> <p>i.) When calibration gas is used, the following information:</p> <ol style="list-style-type: none"> <li>1.) The calibration gas concentration;</li> <li>2.) If a gas bottle was changed during the quarter:</li> <li>3.) The date of the calibration gas bottle change;</li> <li>4.) The gas bottle concentration before the change;</li> <li>5.) The gas bottle concentration after the change; and</li> <li>6.) The expiration date for all calibration gas bottles used.</li> </ol> <p>j.) The percent data availability calculated in accordance with Table 6, Item 17 for each gaseous, opacity, and flow rate monitor in the CEM system;</p> <p>k.) Even if sufficient valid hours have been measured by the CEM system necessary for calculation of a valid averaging period as defined in Env-A 808.17, the Owner or Operator shall still report for any invalid hours that occurred during the emission standard period the substitute data, as approved in accordance with Env-A 808.13, that will be used to determine the source's total emissions;</p> <p>l.) All information required above shall be clearly indicated,</p>	<p>of each quarterly reporting period)</p>		

**Table 8 - Applicable Reporting Requirements**

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
	<p>labeled, and formatted such that compliance with all emissions standards to which the source is subject, can be determined and any periods of excess emissions, substitution of missing or invalid CEM data, CEM calibration, CEM maintenance, or startup, shutdown, or malfunction can be easily identified;</p> <p>m.) This report shall also include:</p> <ol style="list-style-type: none"> <li>1.) Data for each startup and shutdown event (recorded in accordance with Item #12.b of Table 7) that occurred during the reporting period; and</li> <li>2.) Information recorded under Table 7, Item #10.</li> </ol>			
6.	<p><u>Reporting Permit Deviation Caused by Failure to Comply with Data Availability Requirements</u></p> <p>If the owner or operator of the source discovers that it has failed to meet the percent data availability requirement pursuant to Table 6, Item 16 in the previous calendar quarter or in the calendar quarter in which it currently is operating, the owner or operator of the source shall, in addition to the permit deviation reporting required by Section XXV:</p> <ol style="list-style-type: none"> <li>a.) Notify the department by telephone, fax, or e-mail (pdeviations@des.nh.gov) within 10 days of discovery of the permit deviation.</li> <li>b.) Submit a plan to the department, within 30 days of discovery, specifying in detail the steps it plans to take in order to meet the availability requirements for future calendar quarters; and</li> </ol> <p>Implement the plan to meet the data availability requirements no later than 30 days after the end of the quarter of failure.</p>	As required	EU01	Env-A 808.12(e) & Env-A 911.04
7.	<p><u>NOx Emission Statement Reporting Requirements</u></p> <p>If actual NOx emissions from all permitted devices located at the Facility are greater than or equal to 10 tpy, then include the following information with the annual emissions:</p> <ol style="list-style-type: none"> <li>a.) A breakdown of NOx emissions reported pursuant to Table 8, Item #2 by month; and</li> <li>b.) All data recorded in accordance with Item #9 of Table 7.</li> </ol>	Annually (received by the department no later than April 15 <sup>th</sup> of the following year)	EU01 – EU05	Env-A 909

**Table 8 - Applicable Reporting Requirements**

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
8.	<p><u>NESHAP Compliance Certification Report</u>                      Prepare a compliance certification report biennially containing the following information:</p> <ul style="list-style-type: none"> <li>a.) Company name and address;</li> <li>b.) Statement by a responsible official, with the official’s name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all relevant standards and other requirements of this subpart. The notification must include the following certification(s) of compliance, as applicable , and signed by a responsible official:                             <ul style="list-style-type: none"> <li>1.) “This facility complies with the requirements in §63.11223 to conduct a biennial tune-up of each boiler”; and</li> <li>2.) No secondary materials that are solid waste were combusted in any affected unit”.</li> </ul> </li> </ul>	<p>Prepared biennially no later than March 1<sup>st</sup> and submitted to USEPA and the department upon request</p>	<p>EU01</p>	<p>40 CFR 63.11225(b) subpart JJJJJ</p>
9.	<p><u>Update to Air Pollution Dispersion Modeling Impact Analysis</u>                      If an update to the facility’s air pollution dispersion modeling impact analysis is required pursuant to Env-A 606.02, submit the information required pursuant to Env-A 606.04:</p> <ul style="list-style-type: none"> <li>a.) With the permit application submitted for the change which triggered the analysis; or</li> <li>b.) Within 15-days of completion of the change which triggered the analysis, if a permit application is not required.</li> </ul>	<p>As specified</p>	<p>Facility-wide</p>	<p>Env-A 910.01</p>

**Table 8 - Applicable Reporting Requirements**

Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
10.	<p><u>Monitoring Parameter Excursion</u></p> <p>In the event of an excursion of the any monitored parameter specified in Table 6A and/or 6B, lasting more than 48 hours in duration:</p> <p>a.) Notify the department of the permit deviation and excess emissions by telephone (603-271-1370), fax (603-271-7053) or e-mail (pdeviations@des.nh.gov), within 24 hours of discovery of the permit deviation, unless it is a Saturday, Sunday, or state legal holiday, in which event, the department shall be notified on the next day which is not a Saturday, Sunday, or state legal holiday;</p> <p>b.) Submit a written report of the deviation on paper or by electronic means to the department within 10 days of discovery of the permit deviation reported above. The report shall include all of the following information:</p> <ol style="list-style-type: none"> <li>1.) Facility name;</li> <li>2.) Facility address;</li> <li>3.) Name of the responsible official;</li> <li>4.) Facility telephone number;</li> <li>5.) A description of the permit deviation, including the applicable permit number and permit condition(s);</li> <li>6.) The probable cause of the permit deviation;</li> <li>7.) The date and time of the discovery of the permit deviation;</li> <li>8.) The actual date(s) and time(s) of the permit deviation;</li> <li>9.) The duration of the permit deviation, including the date and time that the device, process or air pollution control equipment returned to operation in compliance with an enforceable emission limitation or operating condition;</li> <li>10.) The specific device, process or air pollution control equipment that contributed to the permit deviation;</li> <li>11.) Any corrective measures taken to address the permit deviation;</li> <li>12.) Preventative measures taken to prevent future permit deviations;</li> <li>13.) The type and amount of excess emissions that occurred as a result of the permit deviation; and</li> <li>14.) The calculation or estimation used to quantify the excess emissions.</li> </ol>	As specified	PCE1 & PCE2	Env-A 911.04(d) (effective 7/18/15) State-only Enforceable
11.	<p><u>Payment of Emission-Based Fee</u></p> <p>Submit payment of emission-based fees in accordance with Section XXI of this Permit.</p>	Annually (received by the department no later than April 15 <sup>th</sup> of the following year)	Significant Activities	Env-A 705.04
12.	Report deviations from Permit requirements in accordance with Section XXV of this Permit.	Prompt reporting (within 24 hours of an occurrence)	Facility Wide	40 CFR 70.6(a)(3)(iii)(B)

Table 8 - Applicable Reporting Requirements				
Item #	Reporting Requirements	Frequency of Reporting	Applicable Emission Unit	Regulatory Citation
13.	Annual compliance certification shall be submitted in accordance with Section XIX of this Permit.	Annually (received by the department no later than April 15 <sup>th</sup> of the following year)	Facility wide	40 CFR 70.6(c)(1)
14.	<u>Quality Improvement Plan Submittal</u> Submit the QIP required in Table 7, Item #17 and notify the department if submittal will exceed 180 days from the day the source becomes subject to the permit condition.	As expeditiously as practicable	PCE1 & PCE2	40 CFR 64.8

**VII. 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**

**VIII. 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.

**IX. 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.

**X. 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 unless or until the department takes final action on the application.

**XI. 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

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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 VII of this Title V Operating Permit as not applicable to the stationary source or area source.
- B. The permit shield identified in Section XI.A. of this Permit shall apply only to those conditions incorporated into this Permit in accordance with the provisions of Env-A 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 the department.
  - C. If a Title V Operating Permit and amendments thereto issued by the the department 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, stationary source, area source or device.
  - D. If the department determines that this Title V Operating Permit was issued based upon inaccurate or incomplete information provided by the applicant, owner or operator of a stationary source, area source or device, 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 XI of this Permit shall alter or affect the ability of the department to reopen this Permit for cause pursuant to Env-A 609.19 and Condition XII, or to exercise its summary abatement authority pursuant to RSA 125-C:15, I.
  - F. Pursuant to Env-A 609.09(g), nothing contained in this section or in any Title V operating permit issued by the department shall alter or affect the following:
    1. The ability of the department 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 USEPA 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 department or the USEPA 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 department or the USEPA Administrator to enter, inspect, and/or monitor a stationary source, area source, or device.



**XII. 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).

**XIII. 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 filing the request with the department.
- B. Pursuant to Env-A 612.01, the department 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).

**XIV. 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 XIV. B through E of this permit, as applicable. At this point, the department 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 department and USEPA Administrator of the proposed change and such written notification includes:
    - a. The date on which each proposed change will occur, or has occurred;
    - 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 owner or operator, has 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 that the emissions trades are quantifiable and federally enforceable for changes at the permitted facility 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 department 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 in Condition XIV.A 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 owner or operator provides contemporaneous written notification to the department and the USEPA Administrator of 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 in Condition XIV.A 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 in Condition XIV.A above is made at least 7 days prior to the proposed change; and
  2. The written notification required in Condition XIV.A 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.

## **XV. Minor Modifications**

- A. Prior to implementing a minor Title V Operating Permit modification, the owner or operator shall submit a written request to the department in accordance with the requirements of Env-A 612.05(b) through (d).
- B. The request for a minor permit modification shall include the following:
  1. An application form containing all information pertinent to the modification, including, if applicable, the information specified in Env-A 1709;

2. The fee(s) specified in Env-A 702 through Env-A 705, as applicable;
  3. A description of the change, the emissions resulting from the change, and any new requirements that will apply if the change occurs;
  4. Where air pollution dispersion modeling is required for a source or device pursuant to Env-A 606.02, the information required pursuant to Env-A 606.03;
  5. The owner or operator's proposed draft permit conditions;
  6. Certification by a responsible official, consistent with the provisions of Env-A 605.04(b), that the proposed change meets the criteria for the use of the minor permit modification procedures; and
  7. A request that minor permit modification procedures be used.
- C. The department shall take final action on the minor permit modification request in accordance with the provisions of Env-A 612.05(e) through (g).
- D. Pursuant to Env-A 612.05(h), the owner or operator may implement the proposed change immediately upon filing a request for a minor permit modification with the department.
- E. Pursuant to Env-A 612.05(i), pending final action on the permit modification by the department, the owner or operator shall comply with both the applicable requirements governing the change and the proposed permit conditions.
- F. Pursuant to Env-A 612.05(j) the permit shield specified in Env-A 609.09 shall not apply to minor permit modifications under Section XV. of this Permit.
- G. 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 department of a request for a minor permit amendment.

#### **XVI. Significant Permit Modifications**

- A. Pursuant to Env-A 612.06, a change at the facility shall qualify as a significant permit modification if it meets the criteria specified in Env-A 612.06(a)(1) through (5).
- B. Prior to implementing the significant permit modification, the owner or operator shall file a written request with the department which includes the following information:
1. An application form containing all information pertinent to the modification, including, if applicable, the supplemental information specified in Env-A 1709;
  2. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs;
  3. The owner or operator's suggested draft permit conditions;
  4. Certification by a responsible official, consistent with the provisions of Env-A 605.04(b), that the proposed change meets the criteria for the use of the significant permit modification procedures;
  5. A request that the significant permit modification procedures be used;
  6. Air pollution dispersion modeling impact analysis documentation in accordance with Env-A 606.04, as applicable; and
  7. The fee(s) specified in Env-A 702 through Env-A 705, as applicable.

- C. Pursuant to Env-A 612.06(d), the applicant shall forward a copy of the request for a significant permit modification, including those items listed in Condition XVI.B(1) through (4), to USEPA.
- D. The department shall take final action on the significant permit modification request in accordance with the provisions of Env-A 612.06 (e) and (f).
- E. Pursuant to Env-A 612.06(g), the owner or operator shall obtain an amended Title V Operating Permit from the department which incorporates the significant permit modification prior to implementing such modification, except as provided in Env-A 609.07(a)(3).
- F. 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 department and/or the change is made prior to the issuance of an amended Title V Operating Permit.

#### **XVII. Title V Operating Permit Suspension, Revocation or Nullification**

Pursuant to RSA 125-C:13, the department may terminate, modify, revoke or reissue for cause any permit or authorization issued to an affected source prior to the expiration of such permit, consistent with the requirements of the Clean Air Act.

#### **XVIII. Inspection and Entry**

USEPA and department 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.

#### **XIX. 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 15<sup>th</sup> of the following year. The report shall be submitted to the department and to the U.S. Environmental Protection Agency – Region 1. The report shall be submitted in compliance with the submission requirements below.

In accordance with 40 CFR 70.6(c)(5) and Env-A 907.04, include the following information for each and every requirement and condition of the effective permit, the report shall describe:

1. The particular permit condition or item number that references each requirement, and a brief summary of the requirement;
2. The 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 method(s) used to determine compliance, including a description of the monitoring, recordkeeping, and reporting requirements and test methods;
4. The frequency, either continuous or intermittent, of the method(s) used to determine compliance;
5. If compliance was not continuous, a description of each permit deviation; and

6. Any additional information required in order for the department to determine the compliance status of the source.

#### B. Certification of Accuracy Statement

All documents (including any application form, report or compliance certification) submitted to the department and USEPA 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 the department (except those submitted as emission based fees as outlined in Section XXI 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 USEPA shall be submitted to the following address:

USEPA-New England, Region 1  
5 Post Office Sq. Suite 100  
Mail Code OES04-2  
Boston, MA 02109-3912  
Attn: Air Compliance Clerk

## **XX. 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 department and/or USEPA. 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 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.

**XXI. Emission-Based Fee Requirements**

- A. Env-A 705.01, *Emission-based Fee*: The owner or operator shall pay to the department 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 Fee*: 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 705.02.
- C. Env-A 705.03, *Calculation of Emission-based Fee*: 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 XXI.B; and

DPT = The annual fee, in dollars per ton of emissions, the department has calculated in accordance with Env-A 705.03<sup>21</sup>.

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

**XXII. Duty To Provide Information**

In accordance with 40 CFR 70.6 (a)(6)(v), upon the department's written request, the owner or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the owner or operator shall also furnish to the department copies of records that the owner or operator is required to keep 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 the department. The department shall evaluate such requests in accordance with the provisions of Env-A 103.

**XXIII. 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.

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

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<sup>21</sup> For additional information on emission-based fees, visit the DES website at <http://des.nh.gov/organization/divisions/air/pehb/apps/fees.htm>

**XXV. Permit Deviation**

Deviations are instances where any permit condition is violated. In accordance with Env-A 911, *Recordkeeping and Reporting Requirements for Permit Deviations and Pollution Control Equipment Parameter Excursions*, the owner or operator shall maintain records and report to the department deviations from permit requirements as follows:

- A. Recordkeeping Requirement – All Deviations – In accordance with Env-A 911.03, in the event of a permit deviation, the owner or operator of the affected device, process, or air pollution control equipment shall investigate and take corrective action immediately upon discovery of the permit deviation to restore the affected device, process, or air pollution control equipment to within allowable permit levels; and record the information per Env-A 911.03(b).
- B. Excess Emissions Reporting Requirement – Excess Emission Deviations Only – In the event of a permit deviation that causes excess emissions, the owner or operator of the affected device, process, or air pollution control equipment shall:
  1. Notify the department of the permit deviation and excess emissions by telephone (603) 271-1370, e-mail ([pdeviations@des.nh.gov](mailto:pdeviations@des.nh.gov)), or fax (603) 271-7053, within 24 hours of discovery of the permit deviation<sup>22</sup>; and
  2. Submit a written report in accordance with Env-A 911.04(a)(2) to the department within 10 days of the discovery of the permit deviation reported in Section XXV.B.1.
- C. Reporting Requirements for Permit Deviations Continuing for Greater Than 9 Consecutive Days – In the event the permit deviation does not cause an excess emission but continues for a period greater than 9 consecutive days, the owner or operator of the affected device, process, or air pollution control equipment shall notify the department of the subsequent corrective actions to be taken by telephone (603) 271-1370, e-mail ([pdeviations@des.nh.gov](mailto:pdeviations@des.nh.gov)), or fax (603) 271-7053 on the tenth day of the permit deviation.
- D. Semi-Annual Summary Report – Pursuant to Env-A 911.05, the owner or operator shall submit a summary of all permit deviations previously reported to the department pursuant to Section XXV.B. and C. and a list of all permit deviations recorded pursuant to Section XXV.A. to the department in the Semi-Annual Permit Deviation and Monitoring Report due January 31st and July 31st of each calendar year covering the periods of July 1st through December 31st and January 1st through June 30th, respectively, or an alternative time period approved by the department pursuant to Env-A 912.

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

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<sup>22</sup> Unless it is Saturday, Sunday or a state legal holiday, in which event the department shall be notified on the next day which is not a Saturday, Sunday, or state legal holiday.