Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Robert J. Weld
Regional Director

Federal Operating Permit
Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	NOVEC Energy Production, Halifax County Biomass
Facility Name:	Halifax County Biomass
Facility Location:	1225 Plywood Trail South Boston, VA 24592
Registration Number:	21526
Permit Number:	BRRO-21526

This permit includes the following programs:
Federally Enforceable Requirements - Clean Air Act (Pages 4 through 41)

February 28, 2023
Effective Date

Robert J. Weld, Regional Director

February 27, 2028
Expiration Date

February 28, 2023
Signature Date

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Facility Information

Permittee
NOVEC Energy Production, Halifax County Biomass
1225 Plywood Trail
South Boston, VA 24592

Responsible Official
David Schleicher
President and CEO

Facility
Halifax County Biomass
1225 Plywood Trail
South Boston, VA 24592

Contact Person
Robert Miles
EHS Manager
434-517-2704

County-Plant Identification Number: 51-083-0069

Facility Description:
NAICS Code: 221117 – Biomass Electric Power Generation – This U.S. industry comprises establishments primarily engaged in operating biomass electric power generation facilities. These facilities use biomass (e.g., wood, waste, alcohol fuels) to produce electric energy. The electric energy produced in these establishments is provided to electric power transmission systems or to electric power distribution systems.

NOVEC Energy Production Halifax County Biomass (formerly known as South Boston Energy, LLC) operates a 50 MW renewable energy facility. Halifax County Biomass is currently operating under a combined SOP and minor NSR permit dated November 14, 2019. The facility submitted an initial TV permit application on September 23, 2014. The facility is classified as a major source because of potential emissions of CO and NOx are greater than 100 tpy.

Emission Units

Process Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description*	PCD ID	Pollutant Controlled	Applicable Permit Date
CT-1	EP-7	Counterflow Cooling Tower	30,200 gpm	Drift Eliminator	--	PM	11/14/19
B001	EP-1	Wood-fired Boiler - Stoker with 100 MMBtu/hr startup burner fired on diesel or biodiesel	629 MMBtu/hr	Electrostatic Precipitator Selective Catalyst Reduction Oxidation Catalyst	--	PM NO_x	11/14/19
EGEN-1	EP-5	Emergency Generator Engine	464 bhp	--	--	--	11/14/19
FWP-1	EP-4	Fire Water Pump Engine	237 bhp	--	--	--	11/14/19
MH-4	EP-2	Combined Fuel Processing/Handling, including the following:	65 TPH	Fabric Filters		PM_{10}	11/14/19
Part of MH-4	--	EP-2 Screw Conveyor	Part of MH-4	Fabric Filters	--	PM_{10}	11/14/19
Part of MH-4	--	EP-3 Screw Conveyor	Part of MH-4	Fabric Filters	--	PM_{10}	11/14/19
Part of MH-4	--	EP-4 Wood Fuel Surge Bin	Part of MH-4	Fabric Filters	--	PM_{10}	11/14/19
SS01	EP-6	Dry Sorbent Storage Silo	0.20 TPH	Bin Vent Filters		PM_{10}	11/14/19
EP-11	EP-3	Fly Ash Storage Silo	1.25 TPH	Bin Vent Filters		PM_{10}	11/14/19

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only and is not an applicable requirement.

Fuel Burning Equipment Requirements – Wood-fired Boiler (B001)

Limitations

1. **Fuel Burning Equipment Requirements – (B001) – Emission Controls** – Particulate and particulate hazardous air pollutant emissions from the Wood-fired Boiler (B001) shall be controlled by the use of electrostatic precipitator (ESP); and the ESP shall be provided with adequate access for inspection and shall be in operation when the boiler is operating. This condition applies at all times except during startup/shutdown of the boiler as defined in Condition 14.
(9VAC5-80-110 and Condition 1 of 11/14/19 Permit Document)

2. **Fuel Burning Equipment Requirements – (B001) – Emission Controls –** Nitrogen oxides (NOx) emissions from the Wood-fired Boiler (B001) shall be controlled by the use of selective catalytic reduction (SCR). The SCR shall be provided with adequate access for inspection and shall be in operation when the boiler is operating. This condition applies at all times except during startup/shutdown of the boiler as defined in Condition 14.
(9VAC5-80-110 and Condition 2 of 11/14/19 Permit Document)

3. **Fuel Burning Equipment Requirements – (B001) – Emission Controls –** Sulfur dioxide (SO2), sulfuric acid mist (H2SO4), hydrochloric acid (HCl), and hydrofluoric acid (HF) emissions from the Wood-fired Boiler (B001) shall be controlled by the use of wood ash alkalinity or dry sorbent injection (DSI); and the injection system shall be provided with adequate access for inspection. This condition applies at all times except during startup/shutdown of the boiler as defined in Condition 14.
(9VAC5-80-110 and Condition 3 of 11/14/19 Permit Document)

4. **Fuel Burning Equipment Requirements – (B001) – Emission Controls** – Carbon monoxide (CO) and organic hazardous air pollutant emissions from the Wood-fired Boiler (B001) shall be controlled by oxidation catalyst; and the oxidation catalyst system shall be provided with adequate access for inspection and shall be in operation when the boiler is operating. This condition applies at all times except during startup/shutdown of the boiler as defined in Condition 14.
(9VAC-80-110 and Condition 4 of 11/14/19 Permit Document)

5. **Fuel Burning Equipment Requirements – (B001) – Limitations – Requirements by Reference –** Except where this permit is more restrictive than the applicable requirement, the NSPS equipment as described in the Equipment List shall be operated in compliance with the applicable requirements of 40 CFR 60 Subpart Db.
(9VAC-80-110 and Condition 29 of 11/14/19 Permit Document)

6. **Fuel Burning Equipment Requirements – (B001) – Fuel** – The approved fuel for the Wood-fired Boiler (B001) is wood with diesel, biodiesel, and biodiesel blend approved for

startup. Wood is defined in Condition 7. Diesel, biodiesel, and biodiesel blend are defined in Condition 8. A change in the fuels may require a permit to modify and operate. (9VAC5-80-110 and Condition 22 of 11/14/19 Permit Document)

7. **Fuel Burning Equipment Requirements – (B001) – Fuel –** The wood for the Wood-fired Boiler (B001) shall meet the specifications below:

   a. WOOD/BARK excluding any wood that contains chemical treatments or has affixed thereto paint and/or finishing materials or paper or plastic laminates.

   b. RESINATED WOOD meeting the requirements of 40 CFR 241.2.

   (9VAC5-80-110 and Condition 25 of 11/14/19 Permit Document)

8. **Fuel Burning Equipment Requirements – (B001) – Fuel –** The diesel, biodiesel, and biodiesel blend shall meet the specifications as listed below:

   a. DIESEL meeting ASTM D976 specification and ASTM D975 specification for Grades 1 or 2

   b. BIODIESEL meeting ASTM D6751 specification

   c. BIODIESEL BLEND is a mixture of biodiesel and diesel

   (9VAC5-80-110 and Condition 24 of 11/14/19 Permit Document)

9. **Fuel Burning Equipment Requirements – (B001) – Fuel** – The maximum sulfur content of the diesel and biodiesel to be burned in the Wood-fired Boiler shall not exceed 0.0015% percent by weight per shipment.
   (9VAC5-80-110, 40 CFR 60.42b(j)(1), and Condition 24 of 11/14/19 Permit Document).

10. **Fuel Burning Equipment Requirements – (B001) – Fuel Throughput** – Oil-firing in the Wood-fired Boiler (B001) shall consume no more than 500,000 MMBtu per year or an annual capacity factor (as defined in 40 CFR 60.41b) not to exceed 10%, whichever is less, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. For the purpose of this condition, operation is deemed when any oil is being delivered to the boiler.
    (9VAC5-80-110 and Condition 19 of 11/14/19 Permit Document)

11. **Fuel Burning Equipment Requirements – (B001) – Emission Limits** – Emissions from the operation of the Wood-fired Boiler (B001) shall not exceed the limits specified below:

Pollutant	Lbs/MM BTU	Lb/hr	Tons/year	Tons/day
PM Filterable	0.015#			
PM_{10} Filterable	0.011#			
PM_{10}		17.6	77.1	
Sulfur Dioxide	0.017**	107.6*	47.1	0.13
Nitrogen Oxides	0.085**		234.2	0.65
Carbon Monoxide	0.085**	1,069*	234.2	0.90***
Volatile Organic Compounds		10.7	46.8	
Sulfuric Acid Mist (H2SO4)		0.8	3.6	
Hydrochloric Acid (HCl)		1.4		
Benzene		0.2		
THM		0.56		

Limits do not apply during start-up and shutdown.
* Limits are based on 3-hour rolling average
** Limits are based on daily block average excluding startup and shutdown days.
*** Limits are based on daily block average, including startup and shutdown days.
Compliance is demonstrated on a 30-day rolling average, as stated in Condition 21.

Emission Limitations not marked with #, * , **, or *** are limitations that include all emissions during all time periods.

Startup and shutdown with respect to emission limits are defined in Condition 14. (9VAC5-80-110 and Conditions 30 and 31 of 11/14/19 Permit Document)

12. **Fuel Burning Equipment Requirements – (B001) – Visible Emission Limits** – Visible emissions from the Wood-fired Boiler (B001) stack shall not exceed 10 percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed 20 percent opacity, as determined using methods specified in 9VAC5-50-20 A.3 This condition applies at all times except during startup, shutdown and malfunction. (9VAC5-80-110, 9VAC5-50-80, and Condition 36 of 11/14/19 Permit Document)

13. **Fuel Burning Equipment Requirements – (B001) – Limitations** – The permittee shall develop and maintain a Startup/Shutdown Plan (SSP) as follows:

    a. The SSP shall describe the practices and technology that will be used to minimize the number and duration of startup and shutdown occurrences and the emissions occurring during these scenarios.

    b. The SSP shall contain the monitoring parameters to demonstrate when the facility is in bypass configuration. These parameters shall be continuously monitored and recorded.

c. Within 15 days of the issuance of this permit, the SSP shall be revised to reflect the requirements of this permit and submitted to the Blue Ridge Regional Office for approval.
d. The SSP shall be evaluated for changes based on actions taken to address startup/shutdown issues or when requested by the DEQ.

e. Revisions to the SSP shall be submitted to the Blue Ridge Regional Office for approval within 15 days after such change.

(9VAC5-80-110 and Condition 5 of 11/14/19 Permit Document)

14. **Fuel Burning Equipment Requirements – (B001) – Limitations –** For the purpose of Conditions 1, 2, 3, and 4 of this permit, including specific identified emissions limits as stated in Condition 11 of this permit, "startup" and "shutdown" of the Wood-fired Boiler (B001) are defined as:

    a. Startup is when combustion is preceded by one hour where fuel is not being fed to the boiler and no power is being output from the main generator. The startup period ends when the boiler reaches 60% load or 18 hours after initial combustion in the boiler, whichever is sooner.

    b. Shutdown is when fuel is no longer being fed to the boiler, with the intent of ceasing operation, and the catalyst inlet temperature falls below the minimum temperature established by the monitoring plan.

    (9VAC5-80-110 and Condition 6 of 11/14/19 Permit Document)

Monitoring

15. **Fuel Burning Equipment Requirements – (B001) – Monitoring** – The ESP controlling particulate, including particulate hazardous air pollutant, from the Wood-fired Boiler (B001) shall be equipped with devices to continuously measure and record secondary current and secondary voltage for each field.
    (9VAC5-80-110 and Condition 11 of 11/14/19 Permit Document)

16. **Fuel Burning Equipment Requirements – (B001) – Monitoring** – The DSI controlling S02, sulfuric acid mist, HCl and HF emissions from the Wood-fired Boiler (B001) shall be equipped with devices to continuously measure and record sorbent feed rate. The devices shall be used when the DSI is being operated.
    (9VAC5-80-110 and Condition 12 of 11/14/19 Permit Document)

17. **Fuel Burning Equipment Requirements – (B001) – Monitoring –** The NOx control system for the Wood-fired Boiler (B001) shall be equipped with devices to continuously measure and record the ammonia injection rate.
    (9VAC5-80-110 and Condition 13 of 11/14/19 Permit Document)

18. **Fuel Burning Equipment Requirements – (B001) – Monitoring** – The oxidation catalyst for controlling CO and organic hazardous air pollutant emissions from the Wood-fired Boiler (B001) shall be equipped with devices to continuously measure and record catalyst inlet temperature.
(9VAC5-80-110 and Condition 14 of 11/14/19 Permit Document)

19. **Fuel Burning Equipment Requirements – (B001) – Monitoring** – The Wood-fired Boiler (B001) shall be equipped with a device to record the amount of oil delivered to the boiler.
(9VAC5-80-110 and Condition 16 of 11/14/19 Permit Document)

20. **Fuel Burning Equipment Requirements – (B001) – Monitoring** – Each monitoring device required in Conditions 15-19 shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective control device or emission unit is operating. Part of the approved operating procedure for each monitor shall define action levels and the responses taken when action levels are exceeded.
(9VAC5-80-110 and Condition 17 of 11/14/19 Permit Document)

21. **Fuel Burning Equipment Requirements – (B001) – CEMS** – Continuous Emission Monitoring Systems (CEMS), meeting the design specifications of 40 CFR Part 60, Appendix B, shall be installed to measure and record the emissions of carbon monoxide (CO), nitrogen oxides (NOx), sulfur dioxide (SO2) in lb/MMBtu and CO in tons/day and either the oxygen or carbon dioxide content of the flue gases from the Wood-fired Boiler (B001). The CEMS shall be installed, calibrated, maintained, audited, and operated in accordance with DEQ approved procedures which are equivalent to the requirements of 40 CFR 60.13, Subpart Db and Appendices B and F. Data shall be reduced to 30-day rolling averages per the procedures in 40 CFR 60 Subpart Db for each pollutant (CO reduction shall be according to NOx procedures).
(9VAC5-80-110, 40 CFR 60.48b(e), and Condition 42 of 11/14/19 Permit Document)

22. **Fuel Burning Equipment Requirements – (B001) – CEMS** – A flowmeter shall be used to measure the Wood-fired Boiler (B001) stack gas airflow. The stack gas flowmeter shall be installed, operated, and maintained in accordance with DEQ approved procedures which are equivalent to the provisions of 40 CFR 75 Appendices A and B, with the exception that the relative accuracy test audit (RATA) be performed at least once every four (4) consecutive calendar quarters. The permittee shall submit stack gas flowmeter reports as required by 40 CFR 75 Appendices A and B. The CO, NOx, and SO2 emissions (lb/hr and ton/yr) shall be calculated from data obtained from the respective continuous emissions monitoring system and the stack gas flowmeter in accordance to the provisions of 40 CFR 75 Appendix F. Data shall be used to demonstrate compliance with the 3-hour rolling average (lbs/hr) and 12-month rolling average (tons/yr) emission standards for each pollutant.

(9VAC5-80-110 and Condition 43 of 11/14/19 Permit Document)

23. **Fuel Burning Equipment Requirements – (B001) – COMS** – Continuous Opacity Monitoring Systems (COMS), meeting the design specifications of 40 CFR Part 60, Appendix B, shall be installed to measure and record the opacity of emissions from the Wood-fired Boiler stack. The COMS shall be installed, calibrated, maintained and operated in accordance with the requirements of 40 CFR 60.13, Subpart Db, and Appendix B or DEQ approved procedures which are equivalent to the requirements of 40 CFR 60.13 and Appendix B. Data shall be reduced to six minute averages.
(9VAC5-80-110, 40 CFR 60.48b(e), and Condition 44 of 11/14/19 Permit Document)

24. **Fuel Burning Equipment Requirements – (B001) – CEMS/COMS Performance Evaluation** – Performance evaluations of the continuous monitoring systems shall be conducted in accordance with 40 CFR Part 60, Appendix B, and shall take place during the performance tests under 9VAC5-50-30 or within 30 days thereafter. One copy of the performance evaluations report shall be submitted to the Blue Ridge Regional Office within 60 days of the evaluation. The continuous monitoring systems shall be installed and operational prior to conducting initial performance tests. Verification of operational status shall, as a minimum, include completion of the manufacturer's written requirements or recommendations for installation, operation and calibration of the device. A 30 day notification, prior to the demonstration of continuous monitoring system's performance, and subsequent notifications shall be submitted to the Blue Ridge Regional Office.
(9VAC5-80-110 and Condition 45 of 11/14/19 Permit Document)

25. **Fuel Burning Equipment Requirements – (B001) – CEMS/COMS Quality Control Program** – A CEMS/COMS quality control program which meets the requirements of 40 CFR 60.13 and Appendix B or F shall be implemented for all continuous monitoring systems.
(9VAC5-80-110 and Condition 46 of 11/14/19 Permit Document)

Recordkeeping

26. **Fuel Burning Equipment Requirements – (B001) – Fuel Certification** – The permittee shall obtain certification from the fuel supplier with each shipment of diesel, biodiesel, or biodiesel blend. Each fuel supplier certification shall include the following:

    a. The name of the fuel supplier;

    b. The date on which the fuel was received;

    c. The quantity of fuel delivered in the shipment;

    d. A statement that the fuel complies with the American Society for Testing and Materials specifications referenced in Condition 8 for the particular fuel;

e. The higher heating value of the fuel; and

f. The sulfur content of the fuel.

(9VAC5-80-110, 40 CFR 60.49b(r)(2), and Condition 26 of 11/14/19 Permit Document)

27. **Fuel Burning Equipment Requirements – (B001) – Recordkeeping** – The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Daily and annual consumption of diesel, biodiesel, blended biodiesel, and wood meeting the fuel specifications of Conditions 7 and 8 for the Wood-fired Boiler (B001), calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

b. All fuel supplier certifications, results of all fuel analysis, and records showing the Wood-fired Boiler fuel meet the specifications of Conditions 7 and 8.

c. Monthly emissions calculations, and all supporting documentation, for SO2, VOC, CO, NOx, sulfuric acid mist, PM-10 and HAP from each unit (individual and total) at the facility as described in the Emission Limits List in this permit using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the ton/yr emissions limitations in Conditions 11, 63, 64, 90, and 102.

d. Operation and control device monitoring records for the control device or emission units as required in Conditions 15, 16, 17, 18, and 19.

e. Scheduled and unscheduled maintenance, and operator training.

f. The Startup/Shutdown Plan (SSP), and any revisions of the plan, required in Condition 13.

g. Records demonstrating compliance with Condition 14.

h. Monitoring device operating procedures and action plans required in Condition 20.

i. Results of all stack tests, visible emission evaluations and performance evaluations.

j. Reports required in Condition 32.

k. Any additional records required to comply with Condition 5.

l. Continuous monitoring system calibrations and calibration checks, percent operating time, and excess emissions.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five years.
(9VAC5-80-110 and Condition 48 of 11/14/19 Permit Document)

Continuous Compliance

28. **Fuel Burning Equipment Requirements – (B001) – VEE Alternative** – A continuous opacity monitoring system (COMS) may be used to satisfy the visible emission evaluation requirement in lieu of 40 CFR, Part 60, Appendix A, Method 9. The reported test data shall include averages of all six minute continuous periods within the test period and within the duration of any mass emission performance tests being conducted. It is the responsibility of the permittee to demonstrate that the monitoring system has met the requirements of the applicable performance evaluation, that the monitoring system has been properly maintained and operated, and that the resulting data has not been altered in any way. If monitoring system data indicates compliance for a period during which Method 9 data indicates non-compliance, the Method 9 data shall be used to determine compliance with the visible emission limit.
(9VAC5-80-110 and Condition 40 of 11/14/19 Permit Document)

29. **Fuel Burning Equipment Requirements – (B001) – Ongoing Stack Tests –** Quarterly performance tests shall be conducted for hydrogen chloride from the Wood-fired Boiler (B001) for the first 12 months of operation. The performance test frequency shall then be reduced to annual. The first annual test shall be conducted no later than 12 months after the last quarterly test. Concurrent fuel and ash analysis shall be conducted in accordance with Conditions 30 and 31. These tests shall be conducted to determine compliance with the HCL, Benzene, and TMH emission limits contained in Conditions 11 and 105. The details of the tests are to be arranged with the Blue Ridge Regional Office. The permittee shall submit a test protocol at least 30 days prior to testing. One copy of the test results shall be submitted to the Blue Ridge Regional Office within 45 days after test.
(9VAC5-80-110 and Condition 41 of 11/14/19 Permit Document)

30. **Fuel Burning Equipment Requirements – (B001) – Fuel Sampling and Analysis** – The permittee shall sample and analyze as-fired fuel during each calendar week the Wood-fired Boiler (B001) is operated. Fuel sampling and analysis for chlorine, fluorine, and TMH shall be conducted in accordance with DEQ approved methods equivalent to the relevant procedures in EPA's document GD 51 - Boiler and Process Heater Test Procedures, Methods, and Reporting Requirements. The results of the fuel analysis shall be reported to the Blue Ridge Regional Office with the report required in Condition 32 and shall include: weight percent of each constituent tested, company and individual collecting the sample, identification of sampling method used, sample weight, number of samples, date sample collected, location of fuel when sample taken, date of analysis, company and individual conducting the analysis.

The sampling frequency may be reduced to semi-annual if the mean of all sample concentrations plus two standard deviations results in uncontrolled emissions less than or equal to the emission rates represented in the application. The calculation of the mean shall have a minimum of 52 weeks of sampling results.

For the purpose of this permit, TMH is defined as the combined amount of antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, and phosphorus. (9VAC5-80-110 and Condition 27 of 11/14/19 Permit Document)

31. **Fuel Burning Equipment Requirements – (B001) – Ash Sampling and Analysis** – The permittee shall sample and analyze fly ash at least once during each calendar week the Wood-fired Boiler (B001) is operated. Analysis for alkalinity (as calcium carbonate equivalents) shall be conducted in accordance with DEQ approved methods. The results of the analysis shall be reported to the Blue Ridge Regional Office with the report required in Condition 32 and shall include: results in calcium carbonate equivalents, company and individual collecting the sample, identification of sampling method used, sample weight, number of samples, date sample collected, location of fuel when sample taken, date of analysis, company and individual conducting the analysis.
(9VAC5-80-110 and Condition 28 of 11/14/19 Permit Document)

Reporting

32. **Fuel Burning Equipment Requirements – (B001) – Reports for Continuous Monitoring System** – The permittee shall furnish written reports to the Blue Ridge Regional Office of excess emissions from any process monitored by a continuous monitoring system (COMS/CEMS) on a quarterly basis, postmarked no later than the 30th day following the end of the calendar quarter. These reports shall include, but are not limited to the following information:

    a. The magnitude of excess emissions, any conversion factors used in the calculation of excess emissions, and the date and time of commencement and completion of each period of excess emissions;

    b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the process, the nature and cause of the malfunction (if known), the corrective action taken or preventative measures adopted;

    c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments;

    d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in that report; and

e. Any other information required to comply with 40 CFR Part 60.

(9VAC5-80-110 and Condition 47 of 11/14/19 Permit Document)

MACT Subpart JJJJJJ – Industrial, Commercial, and Institutional Boilers Area Sources – (B001)

General Compliance Requirements

33. **MACT JJJJJJ – General Compliance Requirements – (B001)** – The permittee shall comply with the applicable requirements of National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers 40 CFR 63, Subpart JJJJJJ by the applicable compliance date as specified in 40 CFR 63.11196(c). (9VAC5-80-110 and 40 CFR 63.11196(c))

34. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The permittee shall comply with the applicable General Provisions as specified in Table 8 to Subpart JJJJJJ of Part 63.
(9VAC5-80-110 and 40 CFR 63.11235)

35. **MACT JJJJJJ – General Compliance Requirements – (B001) –** At all times the permittee shall operate and maintain any affected source, including associated air pollution control 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 permittee to make any further efforts to reduce emissions if levels required by 40 CFR 63 Subpart JJJJJJ have been achieved. Determination of whether such operation and maintenance procedures are being used will be based upon information as outlined in 40 CFR 63.11205(a).
(9VAC5-80-110 and 40 CFR 63.11205(a))

36. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The permittee shall demonstrate compliance with all applicable emission limits using performance stack testing, fuel analysis, or a continuous monitoring system (CMS), including a continuous emission monitoring system (CEMS), or a continuous opacity monitoring system (COMS). (9VAC5-80-110 and 40 CFR 63.11205(b))

37. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The permittee shall develop a site-specific monitoring plan according to the requirements in 40 CFR 63.11205(c)(1) for the use of CEMS or COMS.
(9VAC5-80-110 and 40 CFR 63.11205(c))

38. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The permittee shall comply with each emission limit specified in Table 1 to Subpart JJJJJJ of Part 63.
(9VAC5-80-110 and 40 CFR 63.11201(a))

39. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The permittee shall comply with each operating limit specified in Table 3 to Subpart JJJJJJ of Part 63.
(9VAC5-80-110 and 40 CFR 63.11201(c))

40. **MACT JJJJJJ – General Compliance Requirements – (B001) –** The standards in 40 CRF 63.11201 apply at all times the boiler is operating, except during periods of startup and shutdown as defined in 40 CFR 63.11237, during which time you must comply only with Table 2 to Subpart JJJJJJ of Part 63.
(9VAC5-80-110 and 40 CFR 63.11201(d))

Work Practice Standards and Management Practices

41. **MACT JJJJJJ – Work Practice Standards and Management Practices – (B001) –** The permittee shall comply with each applicable work practice standard and management practice specified in Table 2 to Subpart JJJJJJ of Part 63.
(9VAC5-80-110 and 40 CFR 63.11201(b))

Continuous Compliance Requirements

42. **MACT JJJJJJ – Continuous Compliance Requirements – (B001) –** To demonstrate continuous compliance with the work practice standards, the permittee shall:

    a. Conduct a 5-year tune up as specified in 40 CFR 63.11223(b)(l)-(7) and keep records as required in 40 CFR 63.11225(c). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

    (9VAC5-80-110 and 40 CFR 63.11223(a) and (c))

43. **MACT JJJJJJ – Continuous Compliance Requirements – (B001) –** The permittee shall minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, the permittee shall follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. The permittee shall submit a signed statement in the Notification of Compliance Status report that indicates that they conducted startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available.
(9VAC5-80-110 and 40 CFR 63.11223(g))

44. **MACT JJJJJJ – Continuous Compliance Requirements – (B001) –** The permittee shall demonstrate continuous compliance with each emission limit and operating limit in Tables 1 and 3 to Subpart JJJJJJ Part 63 that applies according to the methods specified in Table 7 to Subpart JJJJJJ Part 63 and 40 CFR 63.11222(a)(1), (a)(2), (b).
(9VAC5-80-110 and 40 CFR 63.11222(a))

45. **MACT JJJJJJ – Continuous Compliance Requirements – (B001) –** If the permittee is using a control service to comply with the emission limits specified in Table 1 to Subpart JJJJJJ Part 63, the permittee shall maintain each operating limit in Table 3 to Subpart JJJJJJ Part 63 that applies to the boiler as specified in Table 7 to Subpart JJJJJJ Part 63.
(9VAC5-80-110 and 40 CFR 63.11224(b))

46. **MACT JJJJJJ – Continuous Compliance Requirements – (B001) –** The permittee shall conduct subsequent performance tests, fuel analyses and continuous compliance requirements as specified in 40 CFR 63.11220(b).
(9VAC5-80-110 and 40 CFR 63.11220)

Monitoring Requirements

47. **MACT JJJJJJ – Monitoring Requirements – (B001) –** The permittee shall monitor and collect data according to 40 CFR 63.11221(b), (c),(d) and the site specific monitoring plan required by 40 CFR 63.11205(c).
(9VAC5-80-110, 40 CFR 63.11221, and 40 CFR 63.11205(c))

48. **MACT JJJJJJ – Monitoring Requirements – (B001) –** If the permittee demonstrates compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, the permittee shall develop a site-specific monitoring plan according to the requirements in paragraphs (c)(1) through (4) of 40 CFR 63.11224. This requirement also applies to the permittee if they petition the EPA Administrator for alternative monitoring parameters under 40 CFR 63.8(f).
(9VAC5-80-110 and 40 CFR 63.11224(c))

49. **MACT JJJJJJ – Monitoring Requirements – (B001) –** If the permittee has an applicable opacity operating limit under this rule, the permittee shall install, operate, certify and maintain each COMS according to the procedures in paragraphs (e)(1) through (8) of 40 CFR 63.11224 by the compliance date specified in 40 CFR 63.11196.
(9VAC5-80-110 and 40 CFR 63.11224(e))

50. **MACT JJJJJJ – Monitoring Requirements – (B001) –** The permittee shall conduct all performance test requirements specified in 40 CFR 63.11212 (a)-(e).
(9VAC5-80-110 and 40 CFR 63.11212)

Notifications, Reports, and Recordkeeping

51. **MACT JJJJJJ – Notifications – (B001) –** The permittee shall submit the following notifications:

    a. All of the notifications in 40 CFR 63.7(b) and (c), 63.8(e) and (f) and 63.9(b) through (e), (g), and (h) that apply to the permitted facility by the dates specified.

b. The initial notification must be submitted within 120 days after the source becomes subject to the standard.

(9VAC5-80-110, 40 CFR 63.11225(a)(1), and 40 CFR 63.11225(a)(2))

52. **MACT JJJJJJ – Notification – (B001) –** The permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is scheduled to begin.
(9VAC5-80-110 and 40 CFR 63.11225(a)(3))

53. **MACT JJJJJJ – Notification – (B001)** – The permittee shall submit the Notification of Compliance Status no later than 120 days after the applicable compliance date
(9VAC5-80-110 and 40 CFR 63.11225(a)(4))

54. **MACT JJJJJJ – Reports – (B001) –** Within 60 days after the date of completing each performance test as required by 40 CFR 63 Subpart JJJJJJ the permittee shall submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in 40 CFR 63.11225(e)(1)(i) or (ii).
(9VAC5-80-110 and 40 CFR 63.11225(e)(1))

55. **MACT JJJJJJ – Reports – (B001) –** Within 60 days after the date of completing each CEMS performance evaluation, the permittee shall submit the results of the performance evaluation following the procedure specified in 40 CFR 63.11225(e)(2)(i) or (ii).
(9VAC5-80-110 and 40 CFR 63.11225(e)(1))

56. **MACT JJJJJJ – Reports – (B001) –** The permittee shall prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of 40 CFR 63.11225. The permittee shall submit the report by March 15 if you had any instance described by paragraph (b)(3) of 40 CFR 63.11225.
(9VAC5-80-110 and 40 CFR 63.11225(b))

57. **MACT JJJJJJ – Recordkeeping – (B001) –** The permittee shall keep the following records:
    a. A copy of each notification and report that the permittee submitted to comply with 40 CFR 63 Subpart JJJJJJ, including all documentation supporting any Initial Notification that the permittee submitted according to the requirements in 40 CFR 63.10(b)(2)(xiv).

    b. Records to document conformance with the work practices and management practices required by 40 CFR 63.11223 as specified in 40 CFR 63.11225(c)(2).

    c. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment in accordance with 40 CFR 63.11225(c)(4).

d. Records of actions taken during periods of malfunction to minimize emissions in accordance with 40 CFR 63.11225(c)(5).

(9VAC5-80-110 and 40 CFR 63.11225(a), (b) and (c))

58. **MACT JJJJJJ – Recordkeeping – (B001) –** The permittee shall keep the records of all inspection and monitoring data required by 40 CFR 63.11221 and 63.11222, and the information identified in paragraphs (c)(6)(i) through (vi) of 40 CFR 63.11225 for each required inspection or monitoring.
(9VAC5-80-110 and 40 CFR 63.11225(c)(6))

59. **MACT JJJJJJ – Recordkeeping – (B001) –** The permittee's records shall be in a form suitable and readily available for expeditions review. The permittee shall keep each record for 5 years following the date of each recorded action. The records shall be kept as specified in 40 CFR 63.11225(d).
(9VAC5-80-110 and 40 CFR 63.11225(d))

Process Equipment Requirements – Emergency Generator Engine and Fire Water Pump (EGEN-1 and FWP-1)

Limitations

60. **Process Equipment Requirements – (FWP-1) – Operation Hours** – The fire water pump engine (FWP-1) shall not operate more than 500 hours per year calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 60.4211(f)(1), and Condition 20 of 11/14/19 Permit Document)

61. **Process Equipment Requirements – (EGEN-1) – Operation Hours –** The emergency generator engine (EGEN-1) shall not operate more than 250 hours per year calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9VAC5-80-110, 60.4211(f)(1), and Condition 21 of 11/14/19 Permit Document)

62. **Process Equipment Requirements – (EGEN-1 & FWP-1)** – **Fuel** –The approved fuel for the emergency generator engine (EGEN-1) and fire water pump engine (FWP-1) is diesel. A change in the fuel may require a permit to modify and operate.
(9VAC5-80-110 and Condition 23 of 11/14/19 Permit Document)

63. **Process Equipment Requirements – (EGEN-1) – Emission Limits** – Emissions from the operation of the emergency generator engine (EGEN-1) shall not exceed the limits specified below:

Pollutant	Lbs/hr	Tons/year
PM_{10}	0.08	
Nitrogen Oxides	2.73	0.34
Carbon Monoxide	1.75	0.22
Volatile Organic Compounds	0.16	

The annual emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 61, 69, and 70.
(9VAC5-80-110 and Condition 33 of 11/14/19 Permit Document)

64. **Process Equipment Requirements – (FWP-1) – Emission Limits** – Emissions from the operation of the fire water pump engine (FWP-1) shall not exceed the limits specified below:

Pollutant	Lbs/hr	Tons/year
PM_{10}	0.05	
Nitrogen Oxides	1.5	0.37
Carbon Monoxide	0.47	0.12
Volatile Organic Compounds	0.05	

The annual emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Conditions 61, 69, and 70.
(9VAC5-80-110 and Condition 32 of 11/14/19 Permit Document)

65. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Visible Emissions** – Visible emissions from the engines (EGEN-1 and FWP-1) shall not exceed 10 percent opacity, as determined using the methods specified in 9VAC5-50-20 A.3. This condition applies at all times except during startup, shutdown, and malfunction.
(9VAC5-80-110, 9VAC5-50-80, and Condition 38 of 11/14/19 Permit Document)

Monitoring

66. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Monitoring –** At least one time per week that each engine operates, an observation of the presence of visible emissions from the emergency generator engine (EGEN-1) and the fire water pump engine (FWP-1) shall be made. The presence of visible emissions shall require the permittee to:

a. Take timely correction action such that the unit resumes operation with no visible emissions, or,

b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 5 percent opacity or less. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 5 percent opacity.

c. If visible emissions observations conducted for a particular source during twelve consecutive weeks show no visible emissions, the permittee with DEQ concurrence, may reduce the monitoring frequency to once per calendar month for that source. Any time the monthly visible emissions inspections show observable opacity, or when requested by DEQ, the monitoring frequency shall be increased to once per week.

The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated for any period during the week, it shall be noted in the logbook. (9VAC5-80-110E&K)

67. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Monitoring** – The emergency generator engine, and fire water pump engine shall be equipped with a non-resettable hour meter to record the hours of operation of each unit.
(9VAC5-80-110 and Condition 15 of 11/14/19 Permit Document)

68. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Monitoring** – Each monitoring device required in Condition 67 shall be installed, maintained, calibrated, and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the respective control device or emission unit is operating. Part of the approved operating procedure for each monitor shall define action levels and the responses taken when action levels are exceeded.
(9VAC5-80-110 and Condition 17 of 11/14/19 Permit Document)

Recordkeeping

69. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Recordkeeping** – The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

a. Annual hours of operation and the reason for operation of the fire water pump engine (FWP-1) and the emergency generator engine (EGEN-1) individually, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

b. Monthly and annual consumption of each fuel for the fire water pump engine (FWP-1) and the emergency generator engine (EGEN-1) individually, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.

c. All fuel supplier certifications as listed in Condition 70.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent (5) years.
(9VAC5-80-110 and Condition 48 of 11/14/19 Permit Document)

70. **Process Equipment Requirements – (EGEN-1 and FWP-1) – Fuel Certification** – The permittee shall obtain certification from the fuel supplier with each shipment of diesel, biodiesel, or biodiesel blend. Each fuel supplier certification shall include the following:

a. The name of the fuel supplier;

b. The date on which the fuel was received;

c. The quantity of fuel delivered in the shipment;

d. A statement that the fuel complies with the American Society for Testing and Materials specifications referenced in Condition 8 for the particular fuel;

e. The higher heating value of the fuel; and

f. The sulfur content of the fuel.
(9VAC5-80-110, and Condition 26 of 11/14/19 Permit Document

MACT Subpart ZZZZ – Reciprocating Internal Combustion Engines – (EGEN-1 and FWP-1)

71. **MACT ZZZZ – (EGEN-1 and FWP-1)** – An affected source that meets any of the criteria in paragraphs (c)(1) through (7) of Subpart ZZZZ must meet the requirements of this part

by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.
(9VAC5-80-110 and 40 CFR 63.6590(c))

NSPS Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (EGEN-1 and FWP-1)

General Compliance Requirements

72. **NSPS IIII – (EGEN-1 and FWP-1)** – The permittee shall comply with the applicable requirements of Standards of Performance for New Stationary Sources: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines 40 CFR 60 Subpart IIII.
(9VAC5-80-110 and 40 CFR 60.4200)

73. **NSPS IIII – (EGEN-1 and FWP-1)** – The permittee shall comply with the applicable requirements in Table 8 to Subpart IIII of Part 60.
(9VAC5-80-110 and 40 CFR 60.4218)

Emission Standards

74. **NSPS IIII – Emission Standards – (FWP-1) –** For fire pump engines with displacement of less than 30 liters per cylinder, the permittee must comply with the emission standards in Table 4 to Subpart IIII of Part 60, for all pollutants.
(9VAC5-80-110 and 40 CFR 60.4205(c))

75. **NSPS IIII – Emission Standards – (EGEN-1) –** For 2007 model year and later emergency stationary CI ICE with a displacement of less than 30 liters per cylinder that are not fire pump engines, the permittee must comply with the emission standards for new nonroad CI engines in 40 CFR 60.4202, for all pollutants, for the same model year and maximum engine power for their 2007 model year and later emergency stationary CI ICE.
(9VAC5-80-110 and 40 CFR 60. 4205(b))

76. **NSPS IIII – Emission Standards – (EGEN-1 and FWP-1) –** The permittee shall operate and maintain stationary CI ICE that achieve the emission standards as required in 40 CFR 60.4205 over the entire life of the engine.
(9VAC5-80-110 and 40 CFR 60.4206)

Fuel Requirements

77. **NSPS IIII – Fuel Requirements – (EGEN-1 and FWP-1)** – The permittee shall purchase diesel fuel that meets the fuel standards of 40 CFR 1090.305, in accordance with the requirements of 40 CFR 60.4207(b).
(9VAC5-80-110 and 40 CFR 60.4207(b))

Compliance Requirements

78. **NSPS IIII – Compliance Requirements – (EGEN-1 and FWP-1)** – The permittee shall comply with the applicable requirements of 40 CFR 60.4211(a).
(9VAC5-80-110 and 40 CFR 60.4211(a))

79. **NSPS IIII – Compliance Requirements – (EGEN-1 and FWP-1) –** If the permittee owns or operates a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in 40 CFR 60.4205(b), the permittee must comply by purchasing an engine certified to the emission standards specified in 40 CFR 60.4205(b) for the same model year and maximum engine power. The permittee shall demonstrate compliance with emission standards of 40 CFR 60.4205(c) for the emergency fire pump engine by purchasing a certified engine in accordance with the requirements of 40 CFR 60.4205(c).

    a. The engine must be installed and configured according to the manufacturer's emission-related specifications, except at permitted in 40 CFR 60.4211(g).

    (9VAC5-80-110 and 40 CFR 60.4211(c))

80. **NSPS Subpart IIII – Compliance Requirements – (EGEN-1 & FWP-1) –** In order for the engine to be considered an emergency stationary ICE under 40 CFR Subpart IIII, any operation other than those listed in 40 CFR 60.4211(f), (f)(1), (f)(2)(i), and (f)(3), as described in 40 CFR 60.4211(f), is prohibited.

    a. The permittee may operate the emergency engine for any combination of the purposes specified in 40 CFR 60.4211(f)(2)(i) (Maintenance checks and readiness testing) for a maximum of 100 hours per calendar year.

        i. The emergency engine may be operated for up to 50 hours per calendar year in non-emergency situations as specified in 40 CFR 60.4211(f)(3). The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar provided in 40 CFR 60.4211(f)(2).

        ii. These 50 hours cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity, except as provided in 40 CFR 60.4211(f)(3)(i).

    If the permittee does not operate the engine according to the requirements in 40 CFR 60.4211(f), the engine will not be considered an emergency engine under 40 CFR 60 Subpart IIII and shall meet all requirements for non-emergency engines.
    (9VAC5-80-110 and 40 CFR 60.4211(f))

81. **NSPS IIII – Compliance Requirements – (EGEN-1 and FWP-1) –** In order for the engines to be considered an emergency stationary ICE under Subpart IIII, any operation other than those listed in 40 CFR 60.4211(f), as described in 40 CFR 60.4211(f), is prohibited. If the permittee does not operate the engine according to the requirements in 40 CFR 60.4211(f), the engine will not be considered an emergency engine under Subpart IIII and shall meet all requirements for non-emergency engines.
(9VAC5-80-110 and 40 CFR 60.4211(f))

82. **NSPS IIII – Compliance Requirements – (EGEN-1 and FWP-1) –** If the permittee does not install, configure, operate, and maintain the engine and control device according to the manufacture's emission-related written instructions, or they change emission-related settings in a way that is not permitted by the manufacture, they must demonstrate compliance in accordance with 40 CFR 60.4211(g)(2).
(9VAC5-80-110 and 40 CFR 60.4211(g))

Recordkeeping and Reporting

83. **NSPS IIII – Recordkeeping – (EGEN-1 and FWP-1)** – Starting with the model years in Table 5 to Subpart IIII of Part 60, if the applicable emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the permittee must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter. The permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.
(9VAC5-80-110 and 40 CFR 60.4214(b))

84. **NSPS IIII – Reporting – (EGEN-1 and FWP-1**) – If the permittee owns or operates a stationary CI ICE with a maximum engine power more than 100 HP that operates for the purpose specified in 40 CFR 60.4211(f)(3)(i), the permittee shall submit an annual report according to the requirements in paragraphs (d)(1) through (3) of 40 CFR 60.4214.
(9VAC5-80-110 and 40 CFR 60.4214(d))

85. **NSPS IIII – Reporting – (EGEN-1 and FWP-1**) – The permittee shall report each instance in which the source did not meet the emission standards in 40 CFR 60.4205 and any applicable requirement included in Table 8 to Subpart IIII of Part 60. The permittee shall report all deviations in the semiannual monitoring reports as outlined in Condition 114.
(9VAC5-80-110 and 40 CFR 60.4205)

Process Equipment Requirements – Counterflow Cooling Tower, Combined Fuel Processing/Handling, Dry Sorbent Storage Silo and Fly Ash Storage Silo (CT-1, MH-4, SS01, and EP-11)

Limitations

86. **Process Equipment Requirements – (CT-1) – Emission Controls** – Particulate emissions from the Counterflow Cooling Tower (CT-1) shall be controlled by drift eliminator designed for 0.0005% loss. The drift eliminator shall be provided with adequate access for inspection and shall be in operation when the cooling tower is operating.
(9VAC5-80-110 and Condition 9 of 11/14/19 Permit Document)

87. **Process Equipment Requirements – (MH-4) – Emission Controls** – Particulate emissions from the Combined Fuel Processing/Handling (MH-4, which consists of screw conveyors EP-2 and EP-3, and storage silo EP-4) shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection and shall be in operation when the respective material handling equipment is operating.
(9VAC5-80-110 and Condition 7 of 11/14/19 Permit Document)

88. **Process Equipment Requirements – (EP-11 & SS01) – Emission Controls** – Particulate emissions from the Fly Ash Storage Silo (EP-11) and Dry Storage Silo (SS01) shall be controlled by bin vent filters. Each filter shall be provided with adequate access for inspection and shall be in operation when the respective material handling equipment is operating.
(9VAC5-80-110 and Condition 8 of 11/14/19 Permit Document)

89. **Process Equipment Requirements – (MH-4) (SS01) (EP-11) – Visible Emissions** – Visible emissions from the following processes shall not exceed 10 percent opacity as determined by 9VAC5-50-20 A.3:

    a. Wood fuel processing, handling and storage (MH-4)

    b. Dry Sorbent handling and storage (SS01)

    c. Fly ash handling and storage (EP-11)

    (9VAC5-80-110, 9VAC5-50-80, and Condition 37 of 11/14/19 Permit Document)

90. **Process Equipment Requirements – (MH-4) (SS01) (EP-11) – Emission Limits –** Emissions from the operation of the following shall not exceed the limits specified below:

Wood fuel processing, handling storage (MH-4 which consists of EP-2 to EP-4)	PM10	0.01 gr/dscf	0.6 tons/yr

Dry Sorbent Silo (SS01)	PM10 0.01 gr/dscf	0.6 tons/yr
Fly Ash Silo (EP-11)	PM10 0.01 gr/dscf	

Compliance with these emission limits may be determined per records required in Condition 105.
(9VAC5-80-110 and Condition 34 of 11/14/19 Permit Condition)

Monitoring

91. **Process Equipment Requirements – (MH-4) (SS01) (EP-11) – Monitoring –** At least one time per week an observation of the presence of visible emissions from the Wood fuel processing, handling storage (MH-4), Dry Sorbent Silo (SS-1), Fly Ash Silo stacks shall be made. The presence of visible emissions shall require the permittee to:

    a. Take timely correction action such that the unit resumes operation with no visible emissions, or,

    b. Conduct a visible emission evaluation (VEE), in accordance with EPA Method 9 (reference 40 CFR 60 Appendix A) for a minimum of six minutes, to assure visible emissions from the affected unit are 5 percent opacity or less. If any of the 15-second observations exceeds 5 percent opacity, the observation period shall continue for a total of sixty (60) minutes. If compliance is not demonstrated by this VEE, timely corrective action shall be taken such that the equipment resumes operation with visible emissions less than or equal to 5 percent opacity.

    c. If visible emissions observations conducted for a particular source during twelve consecutive weeks show no visible emissions, the permittee with DEQ concurrence, may reduce the monitoring frequency to once per calendar month for that source. Any time the monthly visible emissions inspections show observable opacity, or when requested by DEQ, the monitoring frequency shall be increased to once per week.

    The permittee shall maintain an observation log to demonstrate compliance. The logs shall include the date and time of the observations, whether or not there were visible emissions the results of all VEEs, any necessary corrective action, and the name of the observer. If the unit has not been operated for any period during the week, it shall be noted in the logbook.
    (9VAC5-80-110E&K)

NSPS Subpart OOO Standards of Performance for Nonmetallic Mineral Processing Plants (SS01)

General Compliance Requirements

92. **NSPS OOO – (SS01)** – The permittee shall comply with the applicable requirements of Standards of Performance for New Stationary Sources: Standards of Performance for Nonmetallic Mineral Processing Plants 40 CFR 60 Subpart OOO.
(9VAC5-80-110 and 40 CFR 60.670)

93. **NSPS OOO – (SS01) –** The permittee shall comply with the applicable requirements in Table 1 of Subpart OOO of Part 60.
(9VAC5-80-110 and 40 CFR 60.670(f))

Limitations

94. **NSPS OOO – Limitations – (SS01) –** For a baghouse that controls emissions from only an individual, enclosed storage bin is exempt from the applicable stack PM concentration limit (and associated performance testing) in Table 2 of Subpart OOO of Part 60. The permittee shall meet the applicable stack opacity limit and compliance requirements in Table 2 of Subpart OOO Part 60.
(9VAC-80-110 and 40 CFR 60.672(f))

Monitoring

95. **NSPS OOO – Monitoring – (SS01) –** Except as specified in paragraph (d) or (e) of 40 CFR 60.674, the permittee of the affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions shall conduct quarterly 30-minute visible emissions inspections using EPA Method 22 (40 CFR part 60, appendix A-7). If any visible emissions are observed, the owner or operator of the affected facility must initiate corrective action within 24 hours to return the baghouse to normal operation.
(9VAC-80-110 and 40 CFR 60.674(c))

96. **NSPS OOO – Monitoring – (SS01) –** As an alternative to the periodic Method 22 (40 CFR part 60, appendix A-7) visible emissions inspections specified in paragraph (c) of 40 CFR 60.674, the permittee of the affected facility for which construction, modification, or reconstruction commenced on or after April 22, 2008, that uses a baghouse to control emissions may use a bag leak detection system. The permittee shall install, operate, and maintain the bag leak detection system according to paragraphs (d)(1) through (3) of 40 CFR 60.674.
(9VAC-80-110 and 40 CFR 60.674(d))

Recordkeeping

97. **NSPS OOO – Recordkeeping – (SS01) –** The permittee of the affected facility (as defined in 40 CFR 60.670 and 60.671) for which construction, modification, or reconstruction commenced on or after April 22, 2008, shall record each periodic inspection required under 40 CFR 60.674(c), including dates and any corrective actions taken, in a logbook (in written or electronic format). The permittee shall keep the logbook onsite and make hard or electronic copies (whichever is requested) of the logbook available to the Blue Ridge Regional Office upon request.
(9VAC-80-110 and 40 CFR 60.676(b)(1))

98. **NSPS OOO – Recordkeeping – (SS01) –** For each bag leak detection system installed and operated according to 40 CFR 60.674(d), the permittee shall keep the records specified in paragraphs (b)(2)(i) through (iii) of 40 CFR 60.674(b)
(9VAC-80-110 and 40 CFR 60.676(b)(2))

Reporting and Notifications

99. **NSPS OOO – Reporting and Notifications – (SS01) –** The subpart A requirement under 40 CFR 60.7(a)(1) for notification of the date construction or reconstruction commenced is waived for affected facilities under Subpart OOO Part 60.
(9VAC-80-110 and 40 CFR 60.676(h)

100. **NSPS OOO – Reporting and Notifications – (SS01) –** A notification of the actual date of initial startup of the affected facility shall be submitted to the Blue Ridge Regional Office.

    a. For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the permittee to the Blue Ridge Regional Office. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.

    b. For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.

    (9VAC-80-110 and 40 CFR 60.676(i))

Facility Wide Conditions

101. **Facility Wide Conditions – Stack Height –** Each emission unit stack height (in feet above ground level) shall be no less that the respective values as follows:

Wood-fired Boiler (B001)	195.00 feet

Fire Water Pump Engine (FWP-1)	22.00 feet
Emergency Generator Engen (EGEN-1)	20.00 feet
MH-4 Wood Processing, handling, and storage (Wood Surge Bin Vent (EP-4), with screw conveyors (EP-2 and EP-3)) vented via fabric filter	69.00 feet
Fly Ash Silo (EP-11)	70.00 feet
Cooling Tower (CT-1)	42.00 feet
Dry Sorbent Silo (SS01)	46.00 feet

(9VAC-80-110 and Condition 39 of 11/14/19 Permit Document)

102. **Facility Wide Conditions – Limitations –** Emissions from the facility shall not exceed the limit specified below:

Any individual Hazardous Air Pollutant (HAP)	9.9 tons/yr*
Total HAPs	24.9 tons/yr*

*Calculated monthly as the sum of each consecutive 12 month period.

Compliance with these emission limits may be determined per records required in Condition 105.

(9VAC-80-110 and Condition 35 of 11/14/19 Permit Document)

103. **Facility Wide Conditions – Testing** – The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. This includes constructing the facility such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and providing a stack or duct that is free from cyclonic flow. Sampling ports shall be provided when requested and safe sampling platforms and access shall be provided.
(9VAC5-80-110, 9VAC5-50-30, and Condition 18 of 11/14/19 Permit Document)

104. **Facility Wide Conditions – Testing** – If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9VAC5-80-110)

105. **Facility Wide Conditions – Recordkeeping** – The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Blue Ridge Regional Office. These records shall include, but are not limited to:

    a. Monthly emissions calculations, and all supporting documentation, for SO2, VOC, CO, NOx, sulfuric acid mist, PM-10 and HAP from each unit (individual and total) at the facility as described in the Emission Limits List in this permit using calculation methods approved by the Blue Ridge Regional Office to verify compliance with the ton/yr emissions limitations in Conditions 11, 63, 64, 90 and 102.

    b. Scheduled and unscheduled maintenance, and operator training.

    c. Results of all stack tests, visible emission evaluations and performance evaluations.

    These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
    (9VAC5-80-110, 9VAC5-50-50, and Condition 48 of 11/14/19 Permit Document)

106. **Facility Wide Conditions – Maintenance and Operating Procedures** – At all times, including periods of start-up, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate the affected source, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions.

    The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to the air pollution control equipment and process equipment which affect such emissions:

    a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.

    b. Maintain an inventory of spare parts.

    c. Have available written operation procedures for the equipment. These procedures shall be based on the manufacture's recommendations, at a minimum.

    d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of the trainees, the dates of training and the nature of the training.

    Records of maintenance and training shall be maintained on site for a period of five years and shall be made available to DEQ personnel upon request.
    (9VAC5-80-110, 9VAC5-50-20 E, and Condition 51 of 11/14/19 Permit Document)

107. **Facility Wide Conditions – Fugitive Dust and Fugitive Emission Controls –** Fugitive dust and fugitive emission controls shall include the following, or equivalent, as approved by DEQ:

a. Use of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, grading of roads, or clearing of land.

b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; paving of roadways, and maintenance of roadways in a clean condition.

c. Installation and use of hoods, fans and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.

d. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered, or treated in an equally effective manner at all times when in motion.

e. Prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

f. Dust from material handling and load-outs shall be controlled by wet suppression or equivalent. The wet suppression spray systems shall be operated at optimum design.

g. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Trucks leaving the site shall have clean wheels achieved by use of paved roads, a wheel washer, or other equivalent means. Dirt, product, or raw material spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9VAC5-80-110 and Condition 10 of 11/14/19 Permit Document)

Insignificant Emissions Units

108. The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
TK-3	Emergency Generator Diesel Day Tank	9VAC5-80-720B	VOC	--

TK-2	Emergency Fire Water Pump Diesel Day Tank	9VAC5-80-720B	VOC	--
MH-1	Fuel Acquisition & Storage	9VAC5-80-720B	PM10	--
MH-2	Intermediate Fuel Processing & Handling	9VAC5-80-720B	PM10	--
MH-3	Emergency Fuel Processing & Handling	9VAC5-80-720B	PM10	--
AH-1	Ash Handling System	9VAC5-80-720B	PM10	--
TK-1	Boiler Tank	9VAC5-80-720B	VOC	--
TK-4	Off-Highway Diesel Storage Tank	9VAC5-80-720B	VOC	--

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110. (9VAC5-80-110)

Permit Shield & Inapplicable Requirements

109. **Permit Shield & Inapplicable Requirements –** Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
NA	NA	NA

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act or (ii) the DEQ pursuant to §10.1-1307.3 or §10.1-1315 of the Virginia Air Pollution Control Law.
(9VAC5-80-110 and 9VAC5-80-140)

General Conditions

110. **General Conditions - Federal Enforceability** - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)

111. **General Conditions - Permit Expiration**

a. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

b. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the DEQ takes final action on the application under 9VAC5-80-150.

d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.

e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the DEQ fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.

f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the DEQ any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110, and 9VAC5-80-170)

112. **General Conditions -Recordkeeping and Reporting** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

    a. The date, place as defined in the permit, and time of sampling or measurements;

    b. The date(s) analyses were performed;

    c. The company or entity that performed the analyses;

    d. The analytical techniques or methods used;

    e. The results of such analyses; and

    f. The operating conditions existing at the time of sampling or measurement.

    (9VAC5-80-110)

113. **General Conditions -Recordkeeping and Reporting** - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. (9VAC5-80-110)

114. **General Conditions -Recordkeeping and Reporting** - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

    a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and

    b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:

        i. Exceedances of emissions limitations or operational restrictions;

        ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring or periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,

        iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.

c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semiannual reporting period."

(9VAC5-80-110)

115. **General Conditions - Annual Compliance Certification -** Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-80 G, and shall include:

a. The time period included in the certification. The time period to be addressed is January 1 to December 31;

b. The identification of each term or condition of the permit that is the basis of the certification;

c. The compliance status;
d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;

e. Consistent with subsection 9VAC5-80-110, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;

f. Such other facts as the permit may require to determine the compliance status of the source; and

g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110)

116. **General Conditions - Permit Deviation Reporting** - The permittee shall notify the Blue Ridge Regional Office within four daytime business hours after discovery of any deviations

from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semiannual compliance monitoring report pursuant to Condition 114 of this permit. (9VAC5-80-110 F. 2)

117. **General Conditions - Failure/Malfunction Reporting** - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Blue Ridge Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Blue Ridge Regional Office. (9VAC5-80-110 and 9VAC5-20-180)

118. **General Conditions - Failure/Malfunction Reporting -** The emission units that have continuous monitors subject to 9VAC5-40-50 C and 9VAC5-50-50 C are not subject to the 14 day written notification.
(9VAC5-20-180 and 9VAC5-50-50)

119. **General Conditions - Failure/Malfunction Reporting -** The emission units subject to the reporting and the procedure requirements of 9VAC5-40-50 C and the procedures of 9VAC5-50-50 C are listed below:

    a. Wood-fired Boiler (B001): NOx and SO2

    (9VAC5-80-110, 9VAC5-20-180 C, and 9VAC5-50-50)

120. **General Conditions - Failure/Malfunction Reporting** - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9VAC5-40-41 or 9VAC5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9VAC5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the DEQ quarterly. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. All reports shall include the following information:

    a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;

b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;

c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and

d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9VAC5-40-50 C and 9VAC5-50-50 C require written reports within 14 days of the discovery of the malfunction.
(9VAC5-80-110, 9VAC5-20-180 C, and 9VAC5-50-50)

121. **General Conditions - Severability** - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110)

122. **General Conditions - Duty to Comply** - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110)

123. **General Conditions - Need to Halt or Reduce Activity not a Defense** - It shall not be a defense for a permittee 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.
(9VAC5-80-110)

124. **General Conditions - Permit Modification** - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC80-110, 9VAC5-80-190, and 9VAC5-80-260)

125. **General Conditions - Property Rights** - The permit does not convey any property rights of any sort, or any exclusive privilege.
(9VAC5-80-110)

126. **General Conditions - Duty to Submit Information** - The permittee shall furnish to the DEQ, within a reasonable time, any information that the DEQ 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 permittee shall also furnish to the DEQ copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the DEQ along with a claim of confidentiality.
(9VAC5-80-110)

127. **General Conditions - Duty to Submit Information** - Any document (including reports) required in a permit condition to be submitted to the DEQ shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)

128. **General Conditions - Duty to Pay Permit Fees** - The owner of any source for which a permit was issued under 9VAC5-80-50 through 9VAC5-80-300 shall pay annual emissions fees, as applicable, consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 and annual maintenance fees, as applicable, consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350.
(9VAC5-80-110, 9VAC5-80-310 et seq., and 9VAC5-80-2310 et seq.)

129. **General Conditions - Fugitive Dust Emission Standards** - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

    a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;

    b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;

    c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

    d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,

e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-80-110 and 9VAC5-50-90)

130. **General Conditions - Startup, Shutdown, and Malfunction** - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the DEQ, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
(9VAC5-80-110 and 9VAC5-50-20 E)

131. **General Conditions - Alternative Operating Scenarios** - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.
(9VAC5-80-110)

132. **General Conditions - Inspection and Entry Requirements** - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.

b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.

c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.

d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110)

133. **General Conditions - Reopening for Cause** - The permit shall be reopened by the DEQ if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

    a. The permit shall be reopened if the DEQ or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

    b. The permit shall be reopened if the administrator or the DEQ determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

    c. The permit shall not be reopened by the DEQ if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

    (9VAC5-80-110)

134. **General Conditions - Permit Availability** - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request. (9VAC5-80-110 and 9VAC5-80-150)

135. **General Conditions - Transfer of Permits**

    a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.

    b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the DEQ of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.

    c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the DEQ of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

    (9VAC5-80-110 and 9VAC5-80-160)

136. **General Conditions - Permit Revocation or Termination for Cause** - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The DEQ may suspend, under such conditions and for such period of time as the DEQ may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.
(9VAC5-80-110, 9VAC5-80-190 C, and 9VAC5-80-260)

137. **General Conditions - Duty to supplement or Correct Application** - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-110 and 9VAC5-80-80 E)

138. **General Conditions - Stratospheric Ozone Protection** - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9VAC5-80-110 and 40 CFR Part 82)

139. **General Conditions - Asbestos Requirements** - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9VAC5-60-70 and 9VAC5-80-110)

140. **General Conditions - Accidental Release Prevention** - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(9VAC5-80-110 and 40 CFR Part 68)

141. **General Conditions - Changes to Permits for Emissions Trading** - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110)

142. **General Conditions - Emissions Trading** - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to

the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.

b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.

c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.

(9VAC5-80-110)