

Bureau of Air Quality Title V Operating Permit

Allendale Biomass LLC 307 Airport Loop Road Fairfax, South Carolina 29827 Allendale County

In accordance with the provisions of the Pollution Control Act, Sections 48-1-50(5), 48-1-100(A), and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the operation of this facility and the equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Title V permit application received on March 28, 2024, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: TV-0160-0022 v2.0

Agency Air Number: 0160-0022

Issue Date: December 16, 2024
Effective Date: January 1, 2025
Expiration Date: December 31, 2029

Steve McCaslin, P. E., Director
Air Permitting Division
Bureau of Air Quality

Allendale Biomass LLC TV-0160-0022 v2.0 Page 2 of 38

RECORD OF REVISIONS

Date	Type	Description of Changes

AA	Administrative Amendment
MM	Minor Modification
SM	Significant Modification

Allendale Biomass LLC TV-0160-0022 v2.0 Page 3 of 38

A. EMISSION UNIT(S), EQUIPMENT, AND CONTROL DEVICE(S)

Emission Unit ID	Emission Unit Description	
01	Boiler	
02	Cooling Towers	
04	Dry Sorbent Silo	
05	Ash Silo	

Equipment and control device capacities provided under the Description columns of Equipment and Control Device Tables below are not intended to be permit limits unless otherwise specified within the Table "Limitations, Monitoring, and Reporting." However, this condition does not exempt the facility from the construction permitting process, from PSD review, nor from any other applicable requirements that must be addressed prior to increasing production rates.

A.1 EQUIPMENT FOR EMISSION UNIT 01 – BOILER

Equipment	Equipment Description	Installation	Control	Emission
ID		Date	Device ID	Point ID
B001	314 million Btu/hr Biomass Fired Stoker Boiler	2013	ESP, SNCR, DSI	B-001

A.2 CONTROL DEVICE(S) FOR EMISSION UNIT 01 – BOILER

Control Device ID	Control Device Description	Pollutant(s) Controlled	Installation Date	Emission Point ID
ESP	Electrostatic Precipitator	PM, PM ₁₀ , PM _{2.5}	2013	B-001
SNCR	Selective Non-Catalytic Reduction	NO _x	2013	B-001
DSI	Dry Sorbent Injection (Voluntary)	HCl	2013	B-001

A.3 EQUIPMENT FOR EMISSION UNIT 02 – COOLING TOWERS

Equipment	Equipment Description	Installation	Control	Emission
ID		Date	Device ID	Point ID
CT	2-Celled Cooling Tower	2013	None	CT

A.4 EQUIPMENT FOR EMISSION UNIT 04 - DRY SORBENT SILO

Equipment	Equipment Description	Installation	Control	Emission
ID		Date	Device ID	Point ID
DSS	Dry Sorbent Silo with Inherent Bin Vent	2013	None	DSS

Allendale Biomass LLC TV-0160-0022 v2.0 Page 4 of 38

A.5 EQUIPMENT FOR EMISSION UNIT 05 – ASH SILO				
Equipment ID	Equipment Description	Installation Date	Control Device ID	Emission Point ID
AS	Ash Silo with Inherent Bin Vent	2013	None	AS

Condition Number	Conditions
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: SNCR, ESP
B.1	The owner or operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner or operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and a other information required in a permanent form suitable for inspection by Department personnel.
	(S.C. Regulation 61-62.1, Section II(J)(1)(d)) Sources required to have continuous emission monitors shall submit reports as specified in applicable parts of the permit, law, regulations, or standards. Emission Unit ID: 01 Equipment ID: B001
	Control Device ID: SNCR, ESP
B.2	All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (e.g. pressure drop readings, flow rates, etc.) and inspection checks shall be maintained in logs (written of electronic), along with any corrective action taken when deviations occur. Each occurrence of operation outside the operational ranges, including date and time, cause, and corrective action taken shall be recorded and kept on site. Exceedance of operational range shall not be considered violation of an emission limit of this permit, unless the exceedance is also accompanied by othe information demonstrating that a violation of an emission limit has taken place.
	Reports of these occurrences shall be submitted semiannually. If there were no occurrences during the reporting period, then documentation shall be submitted to indicate such. Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.70.7.
B.3	Emission Unit ID: 01 Equipment ID: B001
	Control Device ID: SNCR, ESP

Allendale Biomass LLC TV-0160-0022 v2.0 Page 5 of 38

ondition Number	Conditions
	For any source test required under an applicable standard or permit condition, the owner, operator or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.
	Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rates than the rated capacity may result in permit limits on emission rates, including limits of production if necessary.
	 When conducting source tests subject to this section, the owner, operator, or representative sh provide the following: Department access to the facility to observe source tests; Sampling ports adequate for test methods; Safe sampling site(s);
	 Safe access to sampling site(s); Utilities for sampling and testing equipment; and Equipment and supplies necessary for safe testing of a source.
	The owner or operator shall comply with any limits that result from conducting a source test at let than rated capacity. A copy of the most recent Department issued source test summary lett whether it imposes a limit or not, shall be maintained with the operating permit, for each source the is required to conduct a source test.
	Site-specific test plans and amendments, notifications, and source test reports shall be submitted the Department.
	Emission Unit ID: Facility Wide Equipment ID: Facility Wide Control Device ID: Facility Wide
B.4	(S.C. Regulation 61-62.1, Section II(E)) This facility has established federally enforceable emission limitations to limit its potential to emit to less than 250.0 tons per year for particulate matter (PN particulate matter <10 Microns (PM $_{10}$), particulate matter <2.5 Microns (PM $_{2.5}$), nitrogen oxides (NC and carbon monoxide (CO) emissions, each, and 10.0 tons per year for any single HAP emission a 25.0 tons per year for any combination of HAP emissions to avoid PSD, and major source MACT.
B.5	Emission Unit ID: Facility Wide Equipment ID: Facility Wide Control Device ID: Facility Wide
	(S.C. Regulation 61-62.70.6(B)) The owner or operator shall maintain NO_x and CO CEMs records a

Allendale Biomass LLC TV-0160-0022 v2.0 Page 6 of 38

Condition Number	Conditions
, ramber	any other records necessary to determine facility wide emissions. NO _x and CO and emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for total NO _x , CO emissions. Facility-wide emission totals must include emissions from insignificant activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 250.0 tons for NO _x and CO pollutants. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. Emission Unit ID: Facility Wide Equipment ID: Facility Wide Control Device ID: Facility Wide
B.6	(S.C. Regulation 61-62.70.6(B)) The owner or operator shall maintain fuel usage records, ESP operation records, and any other records necessary to determine facility wide emissions. PM, PM ₁₀ , and PM _{2.5} emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for total PM, PM ₁₀ , and PM _{2.5} emissions. Facility-wide emission totals must include emissions from insignificant activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 250.0 tons for each of PM, PM ₁₀ , and PM _{2.5} pollutants. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period based on the emission factors, operating parameters, and algorithms in the Attachment-Algorithms, shall be submitted semiannually.
	The source tests required by SC Regulation 61-62.5, Standard No. 1 and 40 CFR 63, Subpart JJJJJJ will be used to verify emission factors for PM, PM ₁₀ , and PM _{2.5} listed in Attachment-Algorithms. The owner or operator shall develop new emission factors and update its algorithm for evaluating compliance with applicable synthetic minor limits if the results for PM, PM ₁₀ , PM _{2.5} exceed the currently used emission factor. This information shall be submitted with the source test summary. Emission Unit ID: Facility Wide Equipment ID: Facility Wide Control Device ID: Facility Wide
B.7	(S.C. Regulation 61-62.70.6(B)) The owner or operator shall maintain fuel usage records, production records, and any other records necessary to determine facility wide emissions. HAP emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for single HAP, and combined HAP emissions. Facility-wide emission totals must include emissions from insignificant activities. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 10.0 tons for single HAP, and less than 25.0 tons for combined HAP. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period based on the emission factors, operating parameters, and algorithms in the Attachment-Algorithms, shall be submitted semiannually.
	Source tests will be used to verify or reestablish emission factors for HCl and formaldehyde listed in Attachment-Algorithms. The owner or operator shall develop new emission factors and update its

Allendale Biomass LLC TV-0160-0022 v2.0 Page 7 of 38

Condition Number	Conditions
	algorithm for evaluating compliance with applicable synthetic minor limits if the results for HCl or formaldehyde exceed the currently used emission factor. This information shall be submitted with the source test summary.
	The algorithm including example calculations and emission factors, explaining the method used to determine emission rates and the 12 month rolling sums is listed in Attachment – Algorithms.
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP
	(S.C. Regulation 61-62.5, Standard No. 1, Section I) The fuel burning source shall not discharge into the ambient air smoke which exceeds opacity of 20%. The opacity limit may be exceeded for sootblowing, but may not be exceeded for more than 6 minutes in a one hour period nor be exceeded for more than a total of 24 minutes in a 24 hour period. Emissions caused by sootblowing shall not exceed an opacity of 60%.
	Owners and operators shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition, the owner or operator shall maintain a log of the time, magnitude, duration, and any other pertinent information to determine periods of startup and shutdown and make available to the Department upon request.
B.8	In order to minimize emissions during startup and shutdown, the facility shall operate the ESP during boiler startup once the ESP inlet gas temperature reaches greater than 270°F degrees Fahrenheit and an oxygen content at the boiler gas outlet of greater than 2% and less than 11%. During boiler shutdown, the ESP shall remain in operation until the ESP inlet gas temperature reaches less than 270°F or the oxygen content at the boiler gas outlet is greater than 11%. In case of a sudden unexpected loss of power, the ESP will be restarted as soon as practical.
	(S.C. Regulation 61-62.5, Standard No. 1, Section IV(A)(2)) The owner or operator shall continue to operate and maintain a continuous opacity monitor (COM).
	The owner or operator shall use the COM monitoring, recordkeeping and reporting required by 40 CFR §60.48b and 40 CFR §60.49b:
	(40 CFR §60.48b(e)) The procedures under §60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.
	(40 CFR §60.48b(e)(1)) For affected facilities combusting coal, wood or municipal-type solid waste, the span value for a COMS shall be between 60 and 80 percent.
	(40 CFR §60.49b(f)) For an affected facility subject to the opacity standard in §60.43b, the owner or

Allendale Biomass LLC TV-0160-0022 v2.0 Page 8 of 38

Condition Number	Conditions	
	operator shall maintain records of opacity.	
	(40 CFR §60.49b(d)(2)) The owner or operator shall record and maintain records of the amount of each fuel combusted during each calendar month.	
	(40 CFR §60.49b(h)) The owner or operator subject to the opacity standards in §60.43b(f) is required to submit excess emission reports for any excess emissions that occurred during the reporting period.	
	(40 CFR §60.49b(w)) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Department and shall be postmarked by the 30th day following the end of the reporting period.	
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP	
	(S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate matter resulting from this source is 0.6 pounds per million BTU input.	
B.9	SC Regulation 61-62.5, Standard No. 1, Section VI requires a PM source test every two (2) years afte the initial source test or as required by permit conditions. This requirement shall be subsumed by the PM testing required by 40 CFR 63, Subpart JJJJJJ, National Emissions Standards for Hazardous Ai Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters at Area Sources Should the applicability to Subpart JJJJJJ change or if the testing requirements of Subpart JJJJJJ are modified to be less stringent, the permit may be revised to require Standard No. 1 testing on a more frequent basis. All source tests should be completed to ensure the results are acceptable for use in demonstrating compliance with Standard No. 1 allowable PM emission limits.	
	Emission Unit ID: 01 Equipment ID: B001	
B.10	(S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO ₂) resulting from this source is 2.3 pounds per million BTU input.	
	(S.C. Regulation 61-62.5, Standard No. 1, Section VI) A new fuel analysis will be required if a new fue (any fuel not already authorized by permit or by approval of the Department) is added to the allowable fuels. The new fuel analysis shall be maintained on site and made available to the Department upon request.	
B.11	Emission Unit ID: 02, 04, 05 Equipment ID: CT, DSS, AS Control Device ID: None	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 9 of 38

Condition Conditions		
Number	(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.	
	The owner or operator shall perform a visual inspection on a weekly basis of sources subject to opacity limits. The inspection shall occur during normal source operation. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner or operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If the unit did not operate during the semiannual period, the report shall state so.	
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.	
	Emission Unit ID: 02, 04, 05	
	Equipment ID: CT, DSS, AS Control Device ID: None	
	(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations: For process weight rates less than or equal to 30 tons per hour $E = (F) 4.10P^{0.67}$	
B.12	For process weight rates greater than 30 tons per hour $E = (F) (55.0P^{0.11} - 40)$	
	Where E = the allowable emission rate in pounds per hour	
	P = process weight rate in tons per hour	
	F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4	
	For the purposes of compliance with this condition, the process boundaries are defined as follows: • 02/CT - Max Process Weight Rate 4411 ton/hr • 04/DSS - Max Process Weight Rate 7.0 ton/hr • 05/AS - Max Process Weight Rate 0.25 ton/hr	
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: SNCR	
B.13	(S.C. Regulation 61-62.5, Standard No. 5.2, Section III)The allowable discharge of NO_X resulting from this source is 0.20 lb/Million Btu.	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 10 of 38

Condition	Conditions		
Number	(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV(1)) CEMS:		
	(S.C. Regulation of -02.5, Standard No. 5.2, Section N(1)) CLIVIS.		
	The facility shall continue to operate, maintain, and monitor the NO_x CEMs in accordance with the Department approved site specific CEMs monitoring plan dated October 4, 2013 and updated on February 27, 2024.		
	(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV(3)) The owner or operator shall record monthly records of the amounts and types of each fuel combusted and maintain these records on site. Resinated wood pellets and chipped or ground resinated wood shall be differentiated from other wood waste in these records.		
	(S.C. Regulation 61-62.5, Standard No. 5.2, Section IV(5)) The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected source; any malfunction of the air pollution control equipment; and any periods during which a continuous monitoring system or monitoring device is inoperative.		
	Emission Unit ID: 01		
Equipment ID: B001 Control Device ID: ESP			
B.14	This source is subject to New Source Performance Standards (NSPS), 40 CFR 60 and S.C. Regulation 61-62.60 Subpart A, General Provisions and Subpart Db, Standards Of Performance For Industrial-Commercial-Institutional Steam Generating Units, as applicable. This source shall comply with all applicable requirements of Subparts A and Db.		
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP		
	§ 60.43b Standard for particulate matter (PM)		
B.15	(e) For the purposes of this section, the annual capacity factor is determined by dividing the actual heat input to the steam generating unit during the calendar year from the combustion of wood by the potential heat input to the steam generating unit if the steam generating unit had been operated for 8,760 hours at the maximum heat input capacity.		
	(f) No owner or operator of an affected facility that combusts wood shall cause to be discharged into the atmosphere any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.		
	(g) The PM and opacity standards apply at all times, except during periods of startup, shutdown, or malfunction.		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 11 of 38

Condition	dition		
Number	Conditions		
	(h)(1) No owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005, and that combusts wood shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input.		
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP		
	§ 60.48b Emission monitoring for particulate matter.		
B.16	(a) The owner or operator of an affected facility subject to the opacity standard under § 60.43b shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system.		
	(e) The procedures under § 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems.		
	(1) For affected facilities combusting coal, wood or municipal-type solid waste, the span value for a COMS shall be between 60 and 80 percent.		
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP		
	§ 60.49b Reporting and recordkeeping requirements.		
	(d) Except as provided in paragraph (d)(2) of this section, the owner or operator of an affected facility shall record and maintain records as specified in paragraph (d)(1) of this section.		
B.17	(1) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for wood for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.		
	(f) For an affected facility subject to the opacity standard in § 60.43b, the owner or operator shall maintain records of opacity.		
	(h) The owner or operator of any affected facility in any category listed in paragraphs (h)(1) of this section is required to submit excess emission reports for any excess emissions that occurred during the reporting period.		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 12 of 38

Condition	Conditions		
Number	(1) Any affected facility subject to the opacity standards in § 60.43b(f) or to the operating parameter monitoring requirements in § 60.13(i)(1).		
	(3) For the purpose of § 60.43b, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards under § 60.43b(f).		
	(o) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of 2 years following the date of such record.		
	(w) The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.		
Emission Unit ID: 01 Equipment ID: B001 Control Device ID: NA			
B.18	(S.C. Regulation 61-62.70.6(B)) The owner or operator of the boiler shall install, calibrate, maintain, and operate a CEMS for measuring CO concentrations discharged to the atmosphere from the boiler and record the output of the system. CO continuous monitoring systems required shall be operated and monitored in accordance with the provisions of the facility's Department approved site specific CEMs monitoring plan dated October 4, 2013, and updated on February 27, 2024.		
	Emission Unit ID: Facility Wide Equipment ID: Facility Wide Control Device ID: NA		
B.19	 (S.C. Regulation 61-62.6) Fugitive particulate matter (PM) emissions from material handling, process equipment, or storage piles will be minimized to the maximum extent possible. The owner or operator shall continue to comply with the following fugitive dust plan: A. Unpaved Roads and Parking Areas: All unpaved roads shall be sprayed with dust retardant or water by an outside vendor or plant personnel as needed to keep potential fugitive dust to a minimum. (Oil will not be used.) The treatment dates will be recorded in the Computerized Maintenance Management System. 		
5. 19	 B. Paved Roads and Parking Areas: All paved roads and working areas will be periodically swept or sprayed down with water to minimize fugitive dust generation. The preventive tasks will be recorded in the Computerized Maintenance Management System. C. Management of Security Gates: All plant gates other than the main entrance shall be locked at all times except during short durations of special deliveries or emergency situations to minimize dust generations. 		
	 D. Traffic Speeds: Vehicular Traffic on all plant roadways shall be limited to a maximum speed of less than 10 miles per hour and posted near the plant entrance. E. Ash Handling: Fly-ash from the ash collection system shall be unloaded via a conditioner into trucks. Bottom ash will be treated with water and stored in a three-sided bunker prior to 		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 13 of 38

B. LIMITATIONS, MONITORING, AND REPORTING

Condition Conditions		
	The facility shall submit an updated fugitive dust plan for Department approval if the Department or facility determines additional control measures are needed or current dust control measures need modification.	
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP	
B.20	(S.C. Regulation 61-62.5, Standard 3, Section I.J.2) The combustion of the resinated wood pellets and chipped or ground resinated wood in the boiler has been granted a renewable energy exemption. This exemption was granted based on the information submitted by the owner/operator on December 22, 2016 and received by the Department on December 28, 2016. The owner/operator shall notify the Department if any pertinent information changes so that the exemption can be reassessed.	
B.21	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP, SNCR This boiler is permitted to burn only clean wood as defined in S.C. Regulation 61-62.1, chipped wood pallet and crate material, wood pellets made from resinated wood, chipped or ground resinated wood, and wood from natural disasters such as ice storms, tornado/wind storms, or floods. Fuels that meet the definition of yard waste are not permitted to be used as fuel. The use of any other substances as fuel is prohibited without written approval by the Department. A construction permit may be required depending on the nature of the fuel and potential emissions.	
	(40 CFR 60.2175(v)) For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to 40 CFR 241.3(b)(1) of this chapter, you must keep a record which documents how the secondary material meets each of the legitimacy criteria under 40 CFR 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to \$241.3(b)(4) of this chapter, you must keep records as to how the operations that produced the fuel satisfies the definition of processing in \$241.2 and each of the legitimacy criteria of \$241.3(d)(1) of this chapter.	
B.22	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: SNCR	
	The source is subject to 40 CFR 64 Compliance Assurance Monitoring (CAM) based on oxides of nitrogen (NO_x) emission levels and use of controls to comply with S.C. Regulation 61-62.5, Standard	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 14 of 38

Condition			
Condition Number	Conditions		
No. 5.2, Section III. The Department has determined that the use of NO _x CEMS be continuous compliance for NO _x permit limits and thereby exempts this sour requirements. As such, the facility shall maintain the NO _x CEMS as required by S.C 62.5, Standard No. 5.2, Section IV(A)(1). All limits to demonstrate continued compliance on the specified averaging times. Any reported exceedance of these limits is consider compliance with the applicable standard. Emission Unit ID: 01			
	Equipment ID: B001 Control Device ID: ESP		
B.23	(S.C. Regulation 61-62.1, Section II.J.2) The owner or operator shall monitor secondary power, as applicable, for each field of the ESP. Each monitored parameter above shall be recorded each shift during source operation for the ESP. The ESP shall be in place and operational, except during periods of ESP malfunction or mechanical failure.		
	Operational ranges for the monitored parameters have been established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters were derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. The facility shall maintain the established ranges and supporting documentation for these monitored parameters. Operating ranges may be updated following submittal to the Department.		
	Emission Unit ID: 01		
	Equipment ID: B001		
B.24	(S.C. Regulation 61-62.1, Section II.J.2) The monthly percentage of heat input attributable to combusting resinated wood and resinated wood pellets shall be recorded on a calendar month basis and shall not exceed the maximum percentage established during the most source test for HCl and formaldehyde while combusting resinated wood and resinated wood pellets. Reports of the calculated values for each calendar month in the reporting period based on the emission factors shall be submitted semiannually.		
	The source test shall be repeated each time the facility wishes to increase the maximum allowable percentage of heat input from resinated wood or resinated wood pellets.		
	Emission Unit ID: 01 Equipment ID: B001 Control Device ID: ESP		
B.25	(S.C. Regulation 61-62.1, Section II.J.2) A source test for HCl emissions shall be conducted on a biennial basis. The source test will be used to verify or reestablish the HCl emission factor. The facility shall sample the fuel burned for the chlorine content during the biennial source test. Records of the chlorine concentration of the fuel combusted shall be included in the source test summary report.		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 15 of 38

C. NESHAP (40 CFR 61 AND 40 CFR 63)		
Condition Number	Conditions	
C.1	(40 CFR §63.9(a)(4)(ii) and §63.10(a)(4)(ii)) All NESHAP notifications and reports shall be sent to the Department. Electronic submission of notifications or reports to the United States Environmental Protection Agency (US EPA) via CEDRI (Compliance and Emissions Data Reporting Interface) shall serve as the submission to the Department. CEDRI can be accessed through the EPA's Central Data Exchange (CDX).	
C.2	(40 CFR §63.9(a)(4)(ii) and §63.10(a)(4)(ii)) All NESHAP notifications and reports requiring electronic submission to US EPA shall be submitted to EPA via CEDRI. Notifications and reports for specific NESHAP subparts not yet requiring electronic submission may also be submitted via CEDRI. Notifications and the accompanying cover letter for periodic reports not submitted via CEDRI shall be sent to the US EPA Region 4 Air and Radiation Division as required by the applicable subpart.	
	Emergency engines less than or equal to 150 kilowatt (kW) rated capacity, emergency engines greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, and diesel engine driven emergency fire pumps that are operated a total of 500 hours per year or less for testing and maintenance and have a method to record the actual hours of use, such as an hour meter, have been determined to be exempt from construction permitting requirements in accordance with S.C. Regulation 61-62.1.	
C.3	(40 CFR 60; 40 CFR 63) If present, these sources shall still comply with the requirements of all applicable regulations, including but not limited to the following: New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).	
C.4	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and JJJJJJ, Industrial, Commercial and Institutional Boilers-Area Sources. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.	
C.5	§ 63.11201 What standards must I meet? (a) You must comply with each emission limit specified in Table 1 to this subpart that applies to your boiler.	
TABLE 1 TO SUBPART JJJJJJ OF PART 63EMISSION LIMITS		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 16 of 38

C. NESHAP (40 CFR 61 AND 40 CFR 63)

Condition Number		Conditions	
	If your boiler is in this subcategory	For the following Pollutants	You must achieve less than or equal to the following emission limits, except during periods of startup and shut down.
	3. New biomass-fired boilers with input capacity of 30 MMBtu/hr or greater that do not meet the definition of seasonal boiler or limited-use boiler.		3.0E-02 lb per MMBtu of heat input.

(b) You must comply with each work practice standard, emission reduction measure, and management practice specified in Table 2 to this subpart that applies to your boiler. An energy assessment completed on or after January 1, 2008 that meets or is amended to meet the energy assessment requirements in Table 2 to this subpart satisfies the energy assessment requirement. A facility that operates under an energy management program established through energy management systems compatible with ISO 50001, that includes the affected units, also satisfies the energy assessment requirement.

TABLE 2 TO SUBPART JJJJJJ OF PART 63WORK PRACTICE STANDARDS, EMISSION REDUCTION		
MEASURES, AND MANAGEMENT PRACTICES		
If your boiler is in this subcategory	You must meet the following	
1. New Biomass Fired Boilers	Minimize the boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, you must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available.	
7. New biomass-fired boilers that do not meet the definition of seasonal boiler or limited-use boiler, or use an oxygen trim system that maintains an optimum air-to-fuel ratio.	Conduct a tune-up of the boiler every 5 years as specified in §63.11223.	

(c) You must comply with each operating limit specified in Table 3 to this subpart that applies to your boiler.

TABLE 3 TO SUBPART JJJJJJ OF PART 63OPERATING LIMITS FOR BOILERS WITH EMISSION		
LIMITS		
2. Electrostatic precipitator	a. Maintain opacity to less than or equal to 10 percent opacity (daily	
control.	block average)	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 17 of 38

6 livi			
Condition Number	Conditions		
	7. Performance Stack Testing Stack acceed 110 percent of the average operating load recorded during the most recent performance stack test.		
	(d) These standards apply at all times the affected boiler is operating, except during periods of startup and shutdown as defined in § 63.11237, during which time you must comply only with Table 2 to this subpart.		
	§ 63.11205 What are my general requirements for complying with this subpart?		
C.6	 (a) At all times you must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. (b) You must 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), a continuous opacity monitoring system (COMS), or a continuous parameter monitoring system (CPMS), where applicable. You may demonstrate compliance with the applicable mercury emission limit using fuel analysis if the emission rate calculated according to § 63.11211(c) is less than the applicable emission limit. Otherwise, you must demonstrate 		
	compliance using stack testing. (c) If you demonstrate compliance with any applicable emission limit through performance stack testing and subsequent compliance with operating limits (including the use of CPMS), with a CEMS, or with a COMS, you must develop a site-specific monitoring plan according to the requirements in paragraphs (c)(1) through (3) of this section for the use of any CEMS, COMS, or CPMS. This requirement also applies to you if you petition the EPA Administrator for alternative monitoring parameters under § 63.8(f).		
	(1) For each CMS required in this section (including CEMS, COMS, or CPMS), you must develop, and submit to the Administrator for approval upon request, a site-specific monitoring plan that addresses paragraphs (c)(1)(i) through (vi) of this section. You must submit this site-specific monitoring plan, if requested, at least 60 days before your initial performance evaluation of your CMS. This requirement to develop and submit a site-specific monitoring plan does not apply to affected sources with existing CEMS or COMS operated according to the performance		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 18 of 38

Condition	Conditions		
Number	Conditions		
	specifications under append 63.11224.	lix B to part 60 of this chapter and tha	t meet the requirements of §
	to each affected process (ampling probe or other interface at a n unit such that the measurement is rep n or downstream of the last control dev	oresentative of control of the
(ii) Performance and equipment specifications for the sample interface, to concentration or parametric signal analyzer, and the data collection and reduction and			•
	(iii) Performance evaluatio	n procedures and acceptance criteria (e.g., calibrations).
	(iv) Ongoing operation requirements of § 63.8(c)(and maintenance procedures in acl)(ii), (c)(3), and (c)(4)(ii);	ccordance with the general
	(v) Ongoing data quality assurance procedures in accordance with the general requiremer § 63.8(d); and		
	(vi) Ongoing recordkeeping and reporting procedures in accordance with the requirements of § 63.10(c) (as applicable in Table 8 to this subpart), (e)(1), and (e)(2)(i).		
(2) You must conduct a performance evaluation of each CMS in accordance with you monitoring plan.			ordance with your site-specific
	(3) You must operate and maintain the CMS in continuous operation according to the site-spe monitoring plan.		
§ 63.11235 What parts of the General Provi		neral Provisions apply to me?	
	Table 8 to this subpart shows when to you.	nich parts of the General Provisions in	§§ 63.1 through 63.15 apply
	TABLE 8 TO SUBPART JJJJJJ O	F PART 63Applicability of General P	Provisions to Subpart JJJJJJ
C.7	General provisions cite	Subject	Does it apply?
	§ 63.1	Applicability	Yes.
	§ 63.2	Definitions	Yes. Additional terms defined in § 63.11237.
	§ 63.3	Units and Abbreviations	Yes.
	§ 63.4	Prohibited Activities and Circumvention	Yes.

Allendale Biomass LLC TV-0160-0022 v2.0 Page 19 of 38

Condition Number	Conditions		
	§ 63.5	Preconstruction Review and Notification Requirements	No
	§ 63.6(a), (b)(1)-(b)(5), (b)(7), (c), (f)(2)-(3), (g), (i), (j)	Compliance with Standards and Maintenance Requirements	Yes
	§ 63.6(e)(1)(i)	General Duty to minimize emissions	No. <i>See</i> § 63.11205 for general duty requirement.
	§ 63.6(e)(3)	SSM Plan	No.
	§ 63.6(f)(1)	SSM exemption	No.
	§ 63.6(h)(1)	SSM exemption	No.
	§ 63.6(h)(2) to (9)	Determining compliance with opacity emission standards	Yes.
	§ 63.7(a), (b), (c), (d) , (e)(2)– (e)(9), (f), (g), and (h)	Performance Testing Requirements	Yes.
	§ 63.7(e)(1)	Performance testing	No. See § 63.11210.
	§ 63.8(a), (b), (c)(1), (c)(1)(ii), (c)(2) to (c)(9), (d)(1) and (d)(2), (e), (f), and (g)	Monitoring Requirements	Yes.
	§ 63.8(c)(1)(i)	General duty to minimize emissions and CMS operation	No.
	§ 63.8(c)(1)(iii)	Requirement to develop SSM Plan for CMS	No.
	§ 63.8(d)(3)	Written procedures for CMS	Yes, except for the lass sentence, which refers to an SSM plan. SSM plans are not required.
	§ 63.9	Notification Requirements	Yes, excluding the information required in § 63.9(h)(2)(i)(B), (D), (E) and (F). See § 63.11225.
	§ 63.10(a) and (b)(1)	Recordkeeping and Reporting Requirements	Yes.
	§ 63.10(b)(2)(i)	Recordkeeping of occurrence and duration of startups or shutdowns	No.
	§ 63.10(b)(2)(ii)	Recordkeeping of malfunctions	No. See § 63.11225 for recordkeeping of (1) occurrence and duration and (2) actions taken during malfunctions.
	§ 63.10(b)(2)(iii)	Maintenance records	Yes.

Allendale Biomass LLC TV-0160-0022 v2.0 Page 20 of 38

Condition Number		Conditions	
	§ 63.10(b)(2)(iv) and (v)	Actions taken to minimize emissions during SSM	No.
	§ 63.10(b)(2)(vi)	Recordkeeping for CMS malfunctions	Yes.
	§ 63.10(b)(2)(vii) to (xiv)	Other CMS requirements	Yes.
	§ 63.10(b)(3)	Recordkeeping requirements for applicability determinations	No.
	§ 63.10(c)(1) to (9)	Recordkeeping for sources with CMS	Yes.
	§ 63.10(c)(10)	Recording nature and cause of malfunctions	No. See § 63.11225 for malfunction recordkeeping requirements.
	§ 63.10(c)(11)	Recording corrective actions	No. See § 63.11225 for malfunction recordkeeping requirements.
	§ 63.10(c)(12) and (13)	Recordkeeping for sources with CMS	Yes.
	§ 63.10(c)(15)	Allows use of SSM plan	No.
	§ 63.10(d)(1) and (2)	General reporting requirements	Yes.
	§ 63.10(d)(3)	Reporting opacity or visible emission observation results	No.
	§ 63.10(d)(4)	Progress reports under an extension of compliance	Yes.
	§ 63.10(d)(5)	SSM reports	No. <i>See</i> § 63.11225 for malfunction reporting requirements.
	§ 63.10(e)	Additional reporting requirements for sources with CMS	Yes
	§ 63.10(f)	Waiver of recordkeeping or reporting requirements	Yes.
	§ 63.11	Control Device Requirements	No.
	§ 63.12	State Authority and Delegation	Yes.
	§ 63.13–63.16	Addresses, Incorporation by Reference, Availability of Information, Performance Track Provisions	Yes.
	§ 63.11212 What stack tests a	and procedures must I use for the performa	nce tests?
C.8		rformance tests according to \S 63.7(c), (d), (folian plan according to the requirements in \S 63.7	
	(c) You must conduct perfor	mance stack tests at the representative ope	rating load conditions wh

Allendale Biomass LLC TV-0160-0022 v2.0 Page 21 of 38

C. NESHAP (40 CFR 61 AND 40 CFR 63)

Condition Number	Conditions
	burning the type of fuel or mixture of fuels that have the highest emissions potential for each regulated pollutant, and you must demonstrate initial compliance and establish your operating limits based on these performance stack tests. For subcategories with more than one emission limit, these requirements could result in the need to conduct more than one performance stack test. Following each performance stack test and until the next performance stack test, you must comply with the operating limit for operating load conditions specified in Table 3 to this subpart.
	(d) You must conduct a minimum of three separate test runs for each performance stack test required in this section, as specified in § 63.7(e)(3) and in accordance with the provisions in Table 4 to this subpart.

TABLE 4 TO SUBPART JJJJJJ OF PART 63Performance (Stack) Testing Requirements			
To conduct a performance test for the following pollutant	You must	Using	
1. Particulate Matter	a. Select sampling ports location and the number of traverse points	Method 1 in appendix A–1 to part 60 of this chapter.	
	b. Determine velocity and volumetric flow- rate of the stack gas	Method 2, 2F, or 2G in appendix A–2 to part 60 of this chapter.	
	c. Determine oxygen and carbon dioxide concentrations of the stack gas	Method 3A or 3B in appendix A-2 to part 60 of this chapter, or ASTM D6522-00 (Reapproved 2005), ^a or ANSI/ASME PTC 19.10-1981.	
	d. Measure the moisture content of the stack gas	Method 4 in appendix A–3 to part 60 of this chapter.	
	e. Measure the particulate matter emission concentration	Method 5 or 17 (positive pressure fabric filters must use Method 5D) in appendix A–3 and A–6 to part 60 of this chapter and a minimum 1 dscm of sample volume per run.	
	f. Convert emissions concentration to lb/MMBtu emission rates	Method 19 F-factor methodology in appendix A–7 to part 60 of this chapter.	

(e) To determine compliance with the emission limits, you must use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A–7 to part 60 of this chapter to convert the measured PM concentrations and the measured mercury concentrations that

Allendale Biomass LLC TV-0160-0022 v2.0 Page 22 of 38

Condition	Conditions		
Number	Conditions		
	result from the performance test to pounds per million Btu heat input emission rates.		
	§ 63.11220 (S.C. Regulation 61-62.5, Standard No. 1, Section VI subsumed) When must I conduct subsequent performance tests or fuel analyses?		
C.9	(a) If your boiler has a heat input capacity of 10 million Btu per hour or greater, you must conduct all applicable performance (stack) tests according to § 63.11212 on a triennial basis, except as specified in paragraphs (e) of this section. Triennial performance tests must be completed no more than 37 months after the previous performance test.		
	(e) For existing affected boilers that have not operated on solid fossil fuel, biomass, or liquid fuel since the previous compliance demonstration and more than 3 years have passed since the previous compliance demonstration, you must complete your subsequent compliance demonstration no later than 180 days after the re-start of the affected boiler on solid fossil fuel, biomass, or liquid fuel.		
	§ 63.11221 Is there a minimum amount of monitoring data I must obtain?		
	(a) You must monitor and collect data according to this section and the site-specific monitoring plan required by § 63.11205(c).		
C.10	(b) You must operate the monitoring system and collect data at all required intervals at all times the affected source is operating and compliance is required, except for periods of monitoring system malfunctions or out-of-control periods (see § 63.8(c)(7) of this part), repairs associated with monitoring system malfunctions or out-of-control periods, and required monitoring system quality assurance or quality control activities including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in your site-specific monitoring plan. A monitoring system malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring system to provide valid data. Monitoring system failures that are caused in part by poor maintenance or careless operation are not malfunctions. You are required to complete monitoring system repairs in response to monitoring system malfunctions or out-of-control periods and to return the monitoring system to operation as expeditiously as practicable.		
	(c) You may not use data collected during periods of startup and shutdown, monitoring system malfunctions or out-of-control periods, repairs associated with monitoring system malfunctions or out-of-control periods, or required monitoring system quality assurance or quality control activities in calculations used to report emissions or operating levels. Any such periods must be reported according to the requirements in § 63.11225. You must use all the data collected during all other periods in assessing the operation of the control device and associated control system.		
	(d) Except for periods of monitoring system malfunctions or monitoring system out-of-control periods, repairs associated with monitoring system malfunctions or monitoring system out-of-control periods, and required monitoring system quality assurance or quality control activities		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 23 of 38

C 1' - 1'			
Condition Number	Conditions		
	(including, as applicable, calibration checks, required zero and span adjustments, and scheduled CMS maintenance as defined in your site-specific monitoring plan), failure to collect required data is a deviation of the monitoring requirements.		
	§ 63.11222 How do I demonst	rate continuous compliance with the emission limits?	
	Tables 1 and 3 to this su	continuous compliance with each emission limit and operating limit in abpart that applies to you according to the methods specified in Table paragraphs (a)(1) through (4) of this section.	
	TABLE 7 TO SUBPAR	T JJJJJJ OF PART 63Demonstrating Continuous Compliance	
		a. Collecting the opacity monitoring system data according to §63.11224(e) and §63.11221; and	
	1. Opacity	b. Reducing the opacity monitoring data to 6- minute averages; and	
6.11		c. Maintaining opacity to less than or equal to 10 percent (daily block average).	
C.11	maximum, below the esta specified in paragraph (a established under this s compliance with the emiss	y monitor the operating parameters. Operation above the established blished minimum, or outside the allowable range of the operating limits a) of this section constitutes a deviation from your operating limits subpart, except during performance tests conducted to determine sion and operating limits or to establish new operating limits. Operating established during performance tests.	
		ole PM emission limit, you must keep records of the type and amount boiler during the reporting period.	
	limit in Tables 1 and 3 to th	nstance in which you did not meet each emission limit and operating his subpart that apply to you. These instances are deviations from the art. These deviations must be reported according to the requirements	
	§ 63.11223 How do I demons practice standards?	trate continuous compliance with the work practice and management	
C.12	tune-up, you must conduct keep records as required conduct the tune-up while	oject to the work practice standard or the management practices of a a performance tune-up according to paragraph (b) of this section and in § 63.11225(c) to demonstrate continuous compliance. You must burning the type of fuel (or fuels in the case of boilers that routinely ne same time) that provided the majority of the heat input to the boiler	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 24 of 38

Condition	
Condition Number	Conditions
	over the 12 months prior to the tune-up.
	(b) Except as specified in paragraphs (c) through (f) of this section, you must conduct a tune-up of the boiler biennially to demonstrate continuous compliance as specified in paragraphs (b)(1) through (7) of this section. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up. For a new or reconstructed boiler, the first biennial tune-up must be no later than 25 months after the initial startup of the new or reconstructed boiler.
	(1) As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the burner inspection until the first outage, not to exceed 36 months from the previous inspection.
	(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
	(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly (you may delay the inspection until the next scheduled unit shutdown, not to exceed 36 months from the previous inspection). Units that produce electricity for sale may delay the inspection until the first outage, not to exceed 36 months from the previous inspection.
	(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
	(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.
	(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.
	(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

Allendale Biomass LLC TV-0160-0022 v2.0 Page 25 of 38

Condition	
Number	Conditions
	(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
	(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.
	(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
	(c) Boilers with an oxygen trim system that maintains an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up must conduct a tune-up of the boiler every 5 years as specified in paragraphs (b)(1) through (7) of this section. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed boiler with an oxygen trim system, the first 5-year tune-up must be no later than 61 months after the initial startup. You may delay the burner inspection specified in paragraph (b)(1) of this section and inspection of the system controlling the air-to-fuel ratio specified in paragraph (b)(3) of this section until the next scheduled unit shutdown, but you must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up.
	(g) If you own or operate a boiler subject to emission limits in Table 1 of this subpart, you must minimize the boiler's startup and shutdown periods following the manufacturer's recommended procedures, if available. If manufacturer's recommended procedures are not available, you must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available. You must submit a signed statement in the Notification of Compliance Status report that indicates that you 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.
C.13	§ 63.11224 What are my monitoring, installation, operation, and maintenance requirements? (b) If you are using a control device to comply with the emission limits specified in Table 1 to this subpart, you must maintain each operating limit in Table 3 to this subpart that applies to your boiler as specified in Table 7 to this subpart. If you use a control device not covered in Table 3 to this subpart, or you wish to establish and monitor an alternative operating limit and alternative monitoring parameters, you must apply to the United States Environmental Protection Agency (EPA) Administrator for approval of alternative monitoring under § 63.8(f).
	(c) If you demonstrate compliance with any applicable emission limit through stack testing and subsequent compliance with operating limits, you must develop a site-specific monitoring plan according to the requirements in paragraphs (c)(1) through (4) of this section. This requirement

Allendale Biomass LLC TV-0160-0022 v2.0 Page 26 of 38

Condition		
Number	Conditions	
	also applies to you if you petition the EPA Administrator for alternative monitoring parameters under § 63.8(f).	
	(1) For each CMS required in this section, you must develop, and submit to the EPA Administrator for approval upon request, a site-specific monitoring plan that addresses paragraphs (c)(1)(i) through (iii) of this section. You must submit this site-specific monitoring plan (if requested) at least 60 days before your initial performance evaluation of your CMS.	
	(i) Installation of the CMS sampling probe or other interface at a measurement location relative to each affected unit such that the measurement is representative of control of the exhaust emissions (e.g., on or downstream of the last control device).	
	(ii) Performance and equipment specifications for the sample interface, the pollutant concentration or parametric signal analyzer, and the data collection and reduction systems.	
	(iii) Performance evaluation procedures and acceptance criteria (e.g., calibrations).	
	(2) In your site-specific monitoring plan, you must also address paragraphs (c)(2)(i) through (iii) of this section.	
	(i) Ongoing operation and maintenance procedures in accordance with the general requirements of § 63.8(c)(1), (3), and (4)(ii).	
	(ii) Ongoing data quality assurance procedures in accordance with the general requirements of § 63.8(d).	
	(iii) Ongoing recordkeeping and reporting procedures in accordance with the general requirements of § 63.10(c), (e)(1), and (e)(2)(i).	
	(3) You must conduct a performance evaluation of each CMS in accordance with your site-specific monitoring plan.	
	(4) You must operate and maintain the CMS in continuous operation according to the site-specific monitoring plan.	
	(e) If you have an applicable opacity operating limit under this rule, you must install, operate, certify and maintain each COMS according to the procedures in paragraphs (e)(1) through (8) of this section by the compliance date specified in § 63.11196.	
	(1) Each COMS must be installed, operated, and maintained according to Performance	

Allendale Biomass LLC TV-0160-0022 v2.0 Page 27 of 38

Condition	Conditions		
Number	Conditions		
	Specification 1 of 40 CFR part 60, appendix B.		
	(2) You must conduct a performance evaluation of each COMS according to the requirements in § 63.8 and according to Performance Specification 1 of 40 CFR part 60, appendix B.		
	(3) As specified in § 63.8(c)(4)(i), each COMS must complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.		
	(4) The COMS data must be reduced as specified in § 63.8(g)(2).		
	(5) You must include in your site-specific monitoring plan procedures and acceptance criteria for operating and maintaining each COMS according to the requirements in § 63.8(d). At a minimum, the monitoring plan must include a daily calibration drift assessment, a quarterly performance audit, and an annual zero alignment audit of each COMS.		
	(6) You must operate and maintain each COMS according to the requirements in the monitoring plan and the requirements of § 63.8(e). You must identify periods the COMS is out of control including any periods that the COMS fails to pass a daily calibration drift assessment, a quarterly performance audit, or an annual zero alignment audit.		
	(7) You must calculate and record 6-minute averages from the opacity monitoring data and determine and record the daily block average of recorded readings, except as provided in § 63.11221(c).		
	(8) For purposes of collecting opacity data, you must operate the COMS as specified in § 63.11221(b). For purposes of calculating data averages, you must use all the data collected during all periods in assessing compliance, except that you must exclude certain data as specified in § 63.11221(c). Periods when COMS data are unavailable may constitute monitoring deviations as specified in § 63.11221(d).		
	§ 63.11225 What are my notification, reporting, and recordkeeping requirements?		
	(a) You must submit the notifications specified in paragraphs (a)(1) through (5) of this section to the administrator.		
C.14	(1) You must submit all of the notifications in §§ 63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to you by the dates specified in those sections except as specified in paragraphs (a)(2) and (4) of this section.		
	(3) If you are required to conduct a performance stack test you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance stack test is		

Allendale Biomass LLC TV-0160-0022 v2.0 Page 28 of 38

Condition Number	Conditions
	scheduled to begin.
	(b) You must 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 this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of this section. For boilers that are subject only to the energy assessment requirement and/or a requirement to conduct a biennial or 5-year tune-up according to § 63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this section.
	(1) Company name and address.
	(2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:
	(i) "This facility complies with the requirements in § 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler."
	(ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."
	(iii) "This facility complies with the requirement in §§ 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct 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."
	(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.
	(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by you or EPA through a petition process to be a non-waste under § 241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of § 241.3, and the total fuel usage amount with units of

Allendale Biomass LLC TV-0160-0022 v2.0 Page 29 of 38

Condition Number	Conditions
	measure.
	(c) You must maintain the records specified in paragraphs (c)(1) through (7) of this section.
	(1) As required in § 63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.
	(2) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by § 63.11214 and § 63.11223 as specified in paragraphs (c)(2)(i) through (vi) of this section.
	(i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.
	(ii) For operating units that combust non-hazardous secondary materials that have been determined not to be solid waste pursuant to § 241.3(b)(1) of this chapter, you must keep a record which documents how the secondary material meets each of the legitimacy criteria under § 241.3(d)(1). If you combust a fuel that has been processed from a discarded non-hazardous secondary material pursuant to § 241.3(b)(4) of this chapter, you must keep records as to how the operations that produced the fuel satisfies the definition of processing in § 241.2 and each of the legitimacy criteria in § 241.3(d)(1) of this chapter. If the fuel received a non-waste determination pursuant to the petition process submitted under § 241.3(c) of this chapter, you must keep a record that documents how the fuel satisfies the requirements of the petition process. For operating units that combust non-hazardous secondary materials as fuel per § 241.4, you must keep records documenting that the material is a listed non-waste under § 241.4(a).
	(iii) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report.
	(iv) For each boiler subject to an emission limit in Table 1 to this subpart, you must keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used. For each new oil-fired boiler that meets the requirements of § 63.11210(e) or (f), you must keep records, on a monthly basis, of the type of fuel combusted.
	(v) For each boiler that meets the definition of seasonal boiler, you must keep records of days of operation per year.
	(vi) For each boiler that meets the definition of limited-use boiler, you must keep a copy of the federally enforceable permit that limits the annual capacity factor to less than or equal to 10

Allendale Biomass LLC TV-0160-0022 v2.0 Page 30 of 38

Condition Number	Conditions
	percent and records of fuel use for the days the boiler is operating.
	(4) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
	(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in § 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
	(6) You must keep the records of all inspection and monitoring data required by §§ 63.11221 and 63.11222, and the information identified in paragraphs (c)(6)(i) through (vi) of this section for each required inspection or monitoring.
	(i) The date, place, and time of the monitoring event.
	(ii) Person conducting the monitoring.
	(iii) Technique or method used.
	(iv) Operating conditions during the activity.
	(v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation.
	(vi) Maintenance or corrective action taken (if applicable).
	(d) Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.
	(e)
	(1) Within 60 days after the date of completing each performance test (as defined in § 63.2) required by this subpart, you must submit the results of the performance tests, including any associated fuel analyses, following the procedure specified in either paragraph (e)(1)(i) or (ii) of this section.
	(i) For data collected using test methods supported by the EPA's Electronic Reporting Tool (ERT)

Allendale Biomass LLC TV-0160-0022 v2.0 Page 31 of 38

Condition Number	Conditions
	as listed on the EPA's ERT Web site (https://www3.epa.gov/ttn/chief/ert/ert_info.html) at the time of the test, you must submit the results of the performance test to the EPA via the Compliance and Emissions Data Reporting Interface (CEDRI). (CEDRI can be accessed through the EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/).) Performance test data must be submitted in a file format generated through the use of the EPA's ERT or an alternate electronic file format consistent with the extensible markup language (XML) schema listed on the EPA's ERT Web site. If you claim that some of the performance test information being submitted is confidential business information (CBI), you must submit a complete file generated through the use of the EPA's ERT or an alternate electronic file consistent with the XML schema listed on the EPA's ERT Web site, including information claimed to be CBI, on a compact disc, flash drive, or other commonly used electronic storage media to the EPA. The electronic media must be clearly marked as CBI and mailed to U.S. EPA/OAQPS/CORE CBI Office, Attention: Group Leader, Measurement Policy Group, MD C404–02, 4930 Old Page Rd., Durham, NC 27703. The same ERT or alternate file with the CBI omitted must be submitted to the EPA via the EPA's CDX as described earlier in this paragraph.
	(ii) For data collected using test methods that are not supported by the EPA's ERT as listed on the EPA's ERT Web site at the time of the test, you must submit the results of the performance test to the Administrator at the appropriate address listed in § 63.13.
	(f) If you intend to commence or recommence combustion of solid waste, you must provide 30 days prior notice of the date upon which you will commence or recommence combustion of solid waste. The notification must identify:
	(1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that will commence burning solid waste, and the date of the notice.
	(2) The currently applicable subcategory under this subpart.
	(3) The date on which you became subject to the currently applicable emission limits.
	(4) The date upon which you will commence combusting solid waste.
	(g) If you have switched fuels or made a physical change to the boiler and the fuel switch or change resulted in the applicability of a different subcategory within this subpart, in the boiler becoming subject to this subpart, or in the boiler switching out of this subpart due to a fuel change that results in the boiler meeting the definition of gas-fired boiler, as defined in § 63.11237, or you have taken a permit limit that resulted in you becoming subject to this subpart or no longer being subject to this subpart, you must provide notice of the date upon which you switched fuels, made the physical change, or took a permit limit within 30 days of the change. The notification must identify:

Allendale Biomass LLC TV-0160-0022 v2.0 Page 32 of 38

C. NESH	AP (40 CFR 61 AND 40 CFR 63)
Condition Number	Conditions
	(1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.
	(2) The date upon which the fuel switch, physical change, or permit limit occurred.

Condition Number	Conditions
D.1	The owner or operator shall comply with S.C. Regulation 61-62.2, Prohibition of Open Burning.
D.2	The owner or operator shall comply with S.C. Regulation 61-62.3, Air Pollution Episodes.
D.3	The owner or operator shall comply with S.C. Regulation 61-62.4, Hazardous Air Pollution Conditions
D.4	The owner or operator shall comply with S.C. Regulation 61-62.6, Control of Fugitive Particulat Matter, Section III Control of Fugitive Particulate Matter Statewide.
D.5	The owner or operator shall comply with the standards of performance for asbestos abatement operations pursuant to 40 CFR Part 61.145 and S.C. Regulation 61-86.1, including, but not limited to requirements governing training, licensing, notification, work practice, cleanup, and disposal.
D.6	The owner or operator shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, Protection of Stratospheric Ozone, Recycling and Emission Reduction, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. If the owner or operator performs a service on motor vehicles (fleet) that involves ozone-depleting substance refrigerant in MVACs, the owner or operator is subject to all applicable requirements of 40 CFR Part 82, Subpart B, Servicing of MVACs.
D.7	(S.C. Regulation 61-62.70.6(a)(5)) The provisions of this permit are severable, and if any provision of this permit, or application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.
D.8	(S.C. Regulation 61-62.70.6(a)(6)(i)) The owner or operator must comply with all of the conditions of this permit. Any permit noncompliance constitutes a violation of the S.C. Pollution Control Act and/of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of permit renewal application.
D.9	(S.C. Regulation 61-62.70.6(a)(6)(ii)) It shall not be a defense for an owner or operator in a enforcement action that it would have been necessary to halt or reduce the permitted activity i order to maintain compliance with the conditions of this permit.
D.10	(S.C. Regulation 61-62.70.6(a)(6)(iii)) The permit may be modified, revoked, reopened and reissued or terminated for cause by the Department. The filing of a request by the owner or operator for permit modification, revocation and reissuance, or termination, or of a notification of planne changes or anticipated noncompliance does not stay any permit condition.
D.11	(S.C. Regulation 61-62.70.6(a)(6)(iv)) The permit does not convey any property rights of any sort, of

Allendale Biomass LLC TV-0160-0022 v2.0 Page 33 of 38

D. GENERAL FACILITY WIDE

Condition Number	Conditions
	any exclusive privilege.
D.12	(S.C. Regulation 61-62.70.6(a)(6)(v)) The owner or operator shall furnish to the Department, within a reasonable time, any information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the owner or operator shall also furnish to the Department copies of records required to be kept by the permit or, for information claimed to be confidential, the owner or operator may furnish such records directly to the Administrator along with a claim of confidentiality. The Department may also request that the owner or operator furnish such records directly to the Administrator along with a claim of confidentiality.
D.13	(S.C. Regulation 61-62.70.6(a)(8)) No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
	(S.C. Regulation $61-62.70.6(c)(2)$) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:
	1. Enter upon the owner or operator's premises where a Part 70 source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit.
D.14	2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.
	3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
	4. As authorized by the Act and/or the S.C. Pollution Control Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.
D.15	(S.C. Regulation 61-62.70.6(a)(1)(ii)) Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.
D.16	(S.C. Regulation 61-62.70.6(a)(4)) The owner or operator is prohibited from emissions exceeding any allowances that the source lawfully holds under Title IV of the Act or the regulations promulgated thereunder. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the acid rain program, provided that such increases do not require a permit revision under any other applicable requirement. No limit shall be placed on the number of allowances held by a source. The source may not, however, use allowances as a defense to noncompliance with any other applicable requirement. Any such allowances shall be accounted for according to the procedures established in regulations promulgated under Title IV of the Act.
D.17	(S.C. Regulation 61-62.70.7(c)(1)(ii)) Permit expiration terminates the source's right to operate unless a timely and complete renewal application has been submitted consistent with S.C. Regulation 61-62.70.5(a)(1)(iii), 62.70.5(a)(2)(iv), and 62.70.7(b). In this case, the permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of the permit including any permit shield that may be granted pursuant to S.C. Regulation 61-62.70.6(f) shall remain in effect until

Allendale Biomass LLC TV-0160-0022 v2.0 Page 34 of 38

D. **GENERAL FACILITY WIDE** Condition **Conditions** Number the renewal permit has been issued or denied. (S.C. Regulation 61-62.70.7) Requests for permit modification and amendments shall be submitted D.18 on the appropriate Department approved Title V Modification Form(s). (S.C. Regulation 61-62.70.6(a)(7)) The owners or operators of Part 70 sources shall pay fees to the Department consistent with the fee schedule approved pursuant to S.C. Regulation 61-62.70.9; and D.19 in accordance with S.C. Regulation 61-30, Environmental Protection Fees. Failure to pay applicable fees can be considered grounds for permit revocation. (S.C. Regulation 61-62.1, Section III) The owners or operators of Part 70 sources shall complete and submit a new updated emissions inventory consistent with the schedule approved pursuant to S.C. Regulation 61-62.1, Section III. These reports shall be submitted to the Department. D.20 This requirement notwithstanding, an emissions inventory may be required at any time in order to determine the compliance status of any facility. This permit expressly incorporates insignificant activities. Emissions from insignificant activities shall D.21 be included in the emissions inventory submittals as required by S.C. Regulation 61-62.1, Section III(B)(2)(g). (S.C. Regulation 61-62.1, Section II(J)(1)(a)) No applicable law, regulation, or standard will be D.22 contravened. (S.C. Regulation 61-62.1, Section II(J)(1)(e)) Any owner or operator who constructs or operates a source or modification not in accordance with the application submitted pursuant to S.C. Regulation 61-62.1 D.23 or with the terms of any approval to construct, or who commences construction after the effective date of S.C. Regulation 61-62.1 without applying for and receiving approval hereunder, shall be

Condition Number	Conditions
E.1	(S.C. Regulation 61-62.1, Section II(J)(1)(g)) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least five (5) years from the date the record was generated and shall be made available to a Department representative upon request.
E.2	(S.C. Regulation 61-62.70.6(a)(3)(iii)(A)) The owner or operator shall submit reports required in this permit in a timely manner and according to the reporting schedule that has previously been established through the Department's approved electronic permitting system.

subject to enforcement action.

Allendale Biomass LLC TV-0160-0022 v2.0 Page 35 of 38

E. GENERAL RECORD KEEPING AND REPORTING

Condition Number	Conditions
	All required reports must be certified by a responsible official consistent with S.C. Regulation 61-62.70.5(d).
E.3	(S.C. Regulation 61-62.70.6(a)(3)(iii)) All reports and notifications required under this permit shall be submitted to the Department.
E.4	(S.C. Regulation 61-62.70.6(c)(5)(iv)) All Title V Annual Compliance Certifications shall be sent to the US EPA, Region 4, Air Enforcement Branch and to the Department. These reports can be submitted electronically to EPA through CEDRI.
	(S.C. Regulation 61-62.70.6(a)(3)(ii)) The owner or operator shall comply, where applicable, with the following monitoring/support information collection and retention record keeping requirements:
	1. Records of required monitoring information shall include 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;
E.5	d. The analytical techniques or methods used;
	e. The results of such analyses; and
	f. The operating conditions as existing at the time of sampling or measurement;
	 Records of all required monitoring data and support information shall be retained for a period of at least five (5) 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.
	(S.C. Regulation 61-62.1, Section II(J)(1)(c)) For sources not required to have continuous emission monitors, any malfunction of air pollution control equipment or system, process upset, or other equipment failure which results in discharges of air contaminants lasting for one (1) hour or more and which are greater than those discharges described for normal operation in the permit application, shall be reported to the Department within twenty-four (24) hours after the beginning of the occurrence and a written report shall be submitted to the Department within thirty (30) days. The written report shall include, at a minimum, the following:
E.6	1. The identity of the stack and/or emission point where the excess emissions occurred;
	2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;
	3. The time and duration of excess emissions;
	4. The identity of the equipment causing the excess emissions;
	5. The nature and cause of such excess emissions;

Allendale Biomass LLC TV-0160-0022 v2.0 Page 36 of 38

E. GENERAL RECORD KEEPING AND REPORTING

Condition	
Number	Conditions
	6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;
	7. The steps taken to limit the excess emissions; and,
	8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.
	The initial twenty-four (24) hour notification should be made to the Department's local Regional Office.
	The written report should be sent to the Department.
	(S.C. Regulation 61-62.70.6(c)(5)(iii)) The responsible official shall certify annually, compliance with the conditions of this permit as required under S.C. Regulation 61-62.70.6(c). The compliance certification shall include the following:
	1. The identification of each term or condition of the permit that is the basis of the certification.
E.7	2. The identification of the method(s) or means used by the owner or operator for determining the compliance status with each term and condition of the permit during the certification period.
,	3. The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in S.C. Regulation 61-62.70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification.
	4. Such other facts as the Department may require to determine the compliance status of the source.
E.8	(S.C. Regulation 61-62.1, Section II(M)) Within thirty (30) days of the transfer of ownership/operation of a facility, the current permit holder and prospective new owner or operator shall submit to the Department a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner or operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.

Allendale Biomass LLC TV-0160-0022 v2.0 Page 37 of 38

F. INSIG	NIFICANT ACTIVITIES
Condition Number	Conditions
F.1	The facility may install, remove, and modify insignificant activities as defined in S.C. Regulation 61-62.70.5(c), without revising or reopening the Title V Operating Permit. A list of insignificant activities/exempt sources must be maintained on site, along with any necessary documentation to support the determination that the activity is insignificant and shall be made available to a Department representative upon request. The list shall be submitted with the next renewal application.

perm the exideem Feder required also be Feder Table perm G.1 required Nothing of the violation	Conditions Regulation 61-62.70.6(f)) A copy of the "applicability determination" submitted with the Part 70 application is included as Applicable and Non-Applicable Federal and State Regulations. With acception of those listed below, compliance with the terms and conditions of this permit shall be bed compliance with the applicable requirements specified in Applicable and Non-Applicable all and State Regulations as of the date of permit issuance provided that such applicable rements are included and are specifically identified in the permit. The owner or operator shall be shielded from the non-applicable requirements specified in Applicable and Non-Applicable all and State Regulations. Exceptions to this are stated below in the Permit Shield Exceptions.
perm the exideem Feder required also be Feder Table perm G.1 required Nothing of the violation	t application is included as Applicable and Non-Applicable Federal and State Regulations. Wit ception of those listed below, compliance with the terms and conditions of this permit shall be compliance with the applicable requirements specified in Applicable and Non-Applicable and State Regulations as of the date of permit issuance provided that such applicable ements are included and are specifically identified in the permit. The owner or operator shall be shielded from the non-applicable requirements specified in Applicable and Non-Applicable and State Regulations. Exceptions to this are stated below in the Permit Shield Exception
of the violat	This permit shield does not extend to applicable requirements which are promulgated after issuance, unless the permit has been appropriately modified to reflect such new ements.
ability additi issuai perm	ng in the permit shield or in any Part 70 permit shall alter or affect the provisions of Section 30 Act, Emergency Orders of the Clean Air Act; the liability of the owner or operator for aron of applicable requirements prior to or at the time of permit issuance; the applicable rements of the Acid Rain Program, consistent with Section 408(a) of the Clean Air Act; or the of US EPA to obtain information from a source pursuant to Section 114 of the Clean Air Act. In on, the permit shield shall not apply to emission units in noncompliance at the time of permit permit modifications (S.C. Regulation 61-62.70.7(e)(2)), group processing of minor modifications (S.C. Regulation 61-62.70.7(e)(5)(ii), except as specified in S.C. Regulation 61-62.70.7(e)(5)(iii).
	Permit Shield Exceptions

Permit Shield Exceptions
S.C. Regulation 61-62.1 Air Pollution Control Regulations and Standards - Definitions and General Requirements
S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction
S.C. Regulation 61-62.60 South Carolina Designated Facility Plan and New Source Performance Standards
S.C. Regulation 61-62.70 Title V Operating Permit Program
40 CFR 61 Subpart A General Provisions
40 CFR 63 Subpart A General Provisions
40 CFR 76 - Acid Rain Nitrogen Oxides Emission Reduction Program

Allendale Biomass LLC TV-0160-0022 v2.0 Page 38 of 38

H. AMB	. AMBIENT AIR STANDARDS			
Condition Number	Conditions			
H.1	(S.C. Regulation 61-62.1, Section II(J)(2)) Air dispersion modeling (or other method) has previously demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.			
	The owner or operator shall maintain this facility at or below the emission rates used in the most recent air dispersion modeling (or other method) demonstration submitted to and approved by the Department, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates used in the demonstration, not to exceed the pollutant limitations in the body of this permit, it may do so by submitting a new demonstration for approval. This condition along with the referenced modeling demonstration will also serve to meet the intent of S.C. Regulation 61-62.5, Standard No. 8, Section II(D). This is a State Only enforceable requirement.			

I. COMPLIANCE SCHEDULE - RESERVED

Allendale Biomass, LLC TV-0160-0022 v2.0 Page 1 of 5

The following algorithm shall be used to determine monthly PM, PM₁₀, and PM_{2.5} emissions for the boiler:

$$PM, PM10, PM2.5 \ Emissions \ \left(\frac{tons}{month}\right) \\ = Fuel \ Usage \ (FU) \ \times \ Heat \ Rate \ (HR) \ X \ Emission \ Factor \ (EF) \ \times \ \frac{1 \ million \ Btu}{1,000,000 \ Btu} \ \times \ \frac{1 \ ton}{2000 \ lb}$$

Where:

FU = Total monthly wood waste usage, $\frac{lbs}{month}$

HR = Heat Rate 6-month average heat input of fuel received based on weekly grab samples using ASTME711 or equivalent), $\frac{Btu}{tb}$

EF = Particulate Emission factors:

PM Filterable = Highest of previous 3 source tests, $\frac{lb}{million \ Btu}$

PM Filterable No ESP (AP42 Table 1.6.1 Bark /wet wood with Mechanical collector and Condensible PM) = $0.367 \frac{lb}{million_Btu}$

 PM_{10} , $PM_{2.5}$ = Highest of previous 3 source tests, $\frac{lb}{million \, Btu}$

 PM_{10} No ESP (AP42 Table 1.6.1 Bark/Wet Wood with Mechanical Collector and Condensible PM) = 0.337 $\frac{lb}{million\ Btu}$

PM_{2.5} No ESP (AP42 Table 1.6.1 Bark/Wet Wood with Mechanical Collector and Condensible PM) = $0.207 \frac{lb}{million \ Btu}$

The following algorithm shall be used to determine monthly PM, PM_{10} , and $PM_{2.5}$ emissions for the Cooling Tower:

$$\begin{split} PM, PM10, PM2.5 \ Emissions \ \left(\frac{tons}{month}\right) \\ &= Tower \ Capacity \ (TC) \times Drift \ Loss \ (DL) \times \ \frac{1}{100} \ X \ Total \ Dissolved \ Solids \ (TDS) \\ &\times \ \frac{1}{1,000,000 \ ppm} \ \times \ \frac{1 \ ton}{2000 \ lb} \end{split}$$

Where:

TC = Tower Capacity, 8,864,856 $\frac{lbs}{hour}$

DL = AP42 14.3, 0.0017%

TDS = Site Specific Concentration, 1000 ppm

Allendale Biomass, LLC TV-0160-0022 v2.0 Page 2 of 5

The following algorithm shall be used to determine monthly PM, PM_{10} , and $PM_{2.5}$ emissions for the Dry Sorbent Silo:

PM, PM10, PM2.5 Emissions
$$\left(\frac{tons}{month}\right)$$

= Input Rate (IU) × Emission Factor (EF) × $(1 - Control Efficiency (CE)/100)$ × $\frac{1 ton}{2000 \ lb}$

Where:

IU = Total monthly sorbent throughput, $\frac{tons}{month}$

EF = AP42 Section 11.17, $\frac{lbs}{ton}$

CE = 99% for inherent bin vent

The following algorithm shall be used to determine monthly PM, PM_{10} , and $PM_{2.5}$ emissions for the Ash Storage Silo:

$$PM, PM10, PM2.5 \ Emissions \ \left(\frac{tons}{month}\right) \\ = Input \ Rate \ (IU) \times Emission \ Factor \ (EF) \times (1-Control Efficiency \ (CE)/100) \times \frac{1 \ ton}{2000 \ lb}$$

Where:

IU = Total monthly ash throughput, $\frac{tons}{month}$

EF = AP42 Section 11.8, $\frac{lbs}{ton}$

CE = 99% for inherent bin vent

Allendale Biomass, LLC TV-0160-0022 v2.0 Page 3 of 5

The following algorithm shall be used to determine monthly single HAP emissions for the boiler:

$$\begin{aligned} \textit{HAP Emissions} & \left(\frac{\textit{tons}}{\textit{month}} \right) \\ &= \textit{Fuel Usage (FU)} \, \times \, \textit{Heat Rate (HR) X Emission Factor (EF)} \, \times \, \frac{1 \, \textit{million Btu}}{1,000,000 \, \textit{Btu}} \, \times \, \frac{1 \, \textit{ton}}{2000 \, \textit{lb}} \end{aligned}$$

Where:

FU = Total monthly wood waste usage, $\frac{lbs}{month}$

HR = Heat Rate 6-month average heat input of fuel received based on weekly grab samples using ASTME711), $\frac{Btu}{lb}$

EF =

HCI	Highest of previous 3	Highest of previous 3 source
TICI	source tests	tests
Formaldehyde	7.21E-05 lb/MMBtu	2014 Site Emission Testing
Benzene	1.88E-04 lb/MMBtu	2014 Site Emission Testing
Styrene	6.4E-04 lb/MMBtu	NCASI Technical Bulletin 858
Acrolein	3.31E-04 lb/MMBtu	2014 Site Emission Testing
Total Metals Combined Factor	1.96E-04 lb/MMBtu	The following combined:
Total Wetals Combined Factor	1.90E-04 ID/IVIIVIDLU	Antimony - Selenium
Antimony	4.20E-07 lb/MMBtu	NCASI Technical Bulletin 858
Arsenic	1.00E-06 lb/MMBtu	NCASI Technical Bulletin 858
Beryllium	1.90E-06 lb/MMBtu	NCASI Technical Bulletin 858
Cadmium	1.90E-06 lb/MMBtu	NCASI Technical Bulletin 858
Chromium	6.00E-07 lb/MMBtu	NCASI Technical Bulletin 858
Cobalt	1.90E-07 lb/MMBtu	NCASI Technical Bulletin 858
Lead	5.80E-06 lb/MMBtu	NCASI Technical Bulletin 858
Manganese	1.50E-04 lb/MMBtu	NCASI Technical Bulletin 858
Mercury	9.90E-07 lb/MMBtu	NCASI Technical Bulletin 858
Nickel	2.90E-06 lb/MMBtu	NCASI Technical Bulletin 858
Phosphorus	2.74E-05 lb/MMBtu	AP42 Table 1.6-3
Selenium	3.00E-06 lb/MMBtu	NCASI Technical Bulletin 858
Miss Organics Combined Factors	2.79E-03 lb/MMBtu	The following combined:
Misc. Organics Combined Factor:	2.79E-03 ID/IVIIVIDLU	Acetaldehyde - Xylenes
Acetaldehyde	4.29E-04 lb/MMBtu	2014 Site Emission Testing
Acetophenone	2.50E-07 lb/MMBtu	NCASI Technical Bulletin 858
Carbon Tetrachloride	4.50E-05 lb/MMBtu	AP 42 Table 1.6-3
Chlorine	7.90E-04 lb/MMBtu	AP 42 Table 1.6-3
Chlorobenzene	1.70E-05 lb/MMBtu	NCASI Technical Bulletin 858
Chloroform	3.10E-05 lb/MMBtu	NCASI Technical Bulletin 858
Cumene	1.80E-05 lb/MMBtu	NCASI Technical Bulletin 858
Di-n-butylphthalate	3.30E-05 lb/MMBtu	NCASI Technical Bulletin 858

Allendale Biomass, LLC TV-0160-0022 v2.0 Page 4 of 5

2.4 Dinitus also and	4 00F 07 H- /AAAAD+	NCACLTs shorts at Dullatin 050
2,4-Dinitrophenol	4.80E-07 lb/MMBtu	NCASI Technical Bulletin 858
2,4-Dinitrotoluene	9.40E-07 lb/MMBtu	NCASI Technical Bulletin 858
Bromomethane	1.50E-05 lb/MMBtu	AP 42 Table 1.6-3
Chloromethane	4.00E-05 lb/MMBtu	NCASI Technical Bulletin 858
1,2-Dichloroethane	2.90E-05 lb/MMBtu	AP 42 Table 1.6-3
1,2-Dichloropropane	3.30E-05 lb/MMBtu	AP 42 Table 1.6-3
Ethylbenzene	3.10E-05 lb/MMBtu	AP 42 Table 1.6-3
Hexane	2.90E-04 lb/MMBtu	NCASI Technical Bulletin 858
Methyl Isobutyl Ketone	2.30E-05 lb/MMBtu	NCASI Technical Bulletin 858
Methylene Chloride	5.40E-04 lb/MMBtu	NCASI Technical Bulletin 858
Naphthalene	1.60E-04 lb/MMBtu	NCASI Technical Bulletin 858
4-Nitrophenol	3.30E-07 lb/MMBtu	NCASI Technical Bulletin 858
Pentachlorophenol	4.60E-08 lb/MMBtu	NCASI Technical Bulletin 858
Phenol	1.40E-05 lb/MMBtu	NCASI Technical Bulletin 858
Propionaldehyde	3.20E-05 lb/MMBtu	AP 42 Table 1.6-3
Toluene	2.90E-05 lb/MMBtu	NCASI Technical Bulletin 858
Tetrachloroethane	5.20E-05 lb/MMBtu	NCASI Technical Bulletin 858
2,3,7,8-Tetrachlorodibenzo-p-dioxin	8.60E-12 lb/MMBtu	AP 42 Table 1.6-3
1,1,1-Trichloroethane	6.40E-05 lb/MMBtu	NCASI Technical Bulletin 858
Trichloroethylene	2.80E-05 lb/MMBtu	NCASI Technical Bulletin 858
2,4,6-Trichlorophenol	2.20E-07 lb/MMBtu	NCASI Technical Bulletin 858
Vinyl Chloride	1.80E-05 lb/MMBtu	AP 42 Table 1.6-3
Xylenes	2.80E-05 lb/MMBtu	NCASI Technical Bulletin 858
DOM Constituted France	2 005 05 15 // 4/ 4/ 4/ 4/ 5	The following combined:
POM Combined Factor	2.80E-05 lb/MMBtu	Acenaphthene - perylene
Acenaphthene	9.10E-07 lb/MMBtu	AP 42 Table 1.6-3
Acenaphthylene	5.00E-06 lb/MMBtu	AP 42 Table 1.6-3
Anthracene	3.00E-06 lb/MMBtu	AP 42 Table 1.6-3
Benzo(a)anthracene	6.50E-08 lb/MMBtu	AP 42 Table 1.6-3
Benzo(a)pyrene	2.60E-06 lb/MMBtu	AP 42 Table 1.6-3
Benzo(b)fluoranthene	1.00E-07 lb/MMBtu	AP 42 Table 1.6-3
Benzo(e)pyrene	2.60E-09 lb/MMBtu	AP 42 Table 1.6-3
Benzo(g,h,i)perylene	9.30E-08 lb/MMBtu	AP 42 Table 1.6-3
Benzo(j,k)fluoranthene	1.60E-07 lb/MMBtu	AP 42 Table 1.6-3
Benzo(k)fluoranthene	3.60E-08 lb/MMBtu	AP 42 Table 1.6-3
2-Chloronaphthalene	2.40E-09 lb/MMBtu	AP 42 Table 1.6-3
Chrysene	3.80E-08 lb/MMBtu	AP 42 Table 1.6-3
Dibenzo(a,h)anthracene	9.10E-09 lb/MMBtu	AP 42 Table 1.6-3
Fluoranthene	1.60E-06 lb/MMBtu	AP 42 Table 1.6-3
Fluorene	3.40E-06 lb/MMBtu	AP 42 Table 1.6-3
Indenol(1,2,3,c,d)pyrene	8.70E-08 lb/MMBtu	AP 42 Table 1.6-3
1110c1101(1,2,3,c,0,py1c11c	5.7 5E 55 15/14/14/15/Cd	7 12 1 abic 1.0 5

Allendale Biomass, LLC TV-0160-0022 v2.0 Page 5 of 5

Monochlorobiphenyl	2.20E-10 lb/MMBtu	AP 42 Table 1.6-3
2-Methylnaphthalene	1.60E-07 lb/MMBtu	AP 42 Table 1.6-3
Phenanthrene	7.00E-06 lb/MMBtu	AP 42 Table 1.6-3
Pyrene	3.70E-06 lb/MMBtu	AP 42 Table 1.6-3
Perylene	5.20E-10 lb/MMBtu	AP 42 Table 1.6-3
		The following combined:
Furans Combined Factor	1.87E-09 lb/MMBtu	Heptachlorodibenzo-p-furans -
		Tetrachlorodibenzo-p-furans
Heptachlorodibenzo-p-furans	2.40E-10 lb/MMBtu	AP 42 Table 1.6-3
Hexachlorodibenzo-p-furans	2.80E-10 lb/MMBtu	AP 42 Table 1.6-3
Octachlorodibenzo-p-furans	8.80E-11 lb/MMBtu	AP 42 Table 1.6-3
Pentachlorodibenzo-p-furans	4.20E-10 lb/MMBtu	AP 42 Table 1.6-3
2,3,7,8-Tetrachlorodibenzo-p-furans	9.00E-11 lb/MMBtu	AP 42 Table 1.6-3
Tetrachlorodibenzo-p-furans	7.50E-10 lb/MMBtu	AP 42 Table 1.6-3
		The following combined:
PCBs Combined Factor	1.27E-08 lb/MMBtu	Decachlorobiphenyl -
		Tetrachlorobiphenyl
Decachlorobiphenyl	2.70E-10 lb/MMBtu	AP 42 Table 1.6-3
Dichlorobiphenyl	9.00E-10 lb/MMBtu	NCASI Technical Bulletin 858
Heptachlorobiphenyl	6.60E-11 lb/MMBtu	AP 42 Table 1.6-3
Hexachlorobiphenyl	8.00E-10 lb/MMBtu	NCASI Technical Bulletin 858
Pentachlorobiphenyl	1.80E-09 lb/MMBtu	NCASI Technical Bulletin 858
Trichlorobiphenyl	5.50E-09 lb/MMBtu	NCASI Technical Bulletin 858
Tetrachlorobiphenyl	3.40E-09 lb/MMBtu	NCASI Technical Bulletin 858
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The monthly total HAPs shall be determined by the sum of the single HAPs.

Applicable and Non-Applicable Federal and State Regulations

Allendale Biomass LLC TV-0160-0022 v2.0 Page 1 of 1

The following contains the Federal and South Carolina air pollution regulations and their applicability, as specified in the Part 70 permit application.

Regulation Citation and Title	Applicable?
S.C. Regulation 61-62.1 Air Pollution Control Regulations and Standards - Definitions and	Yes
General Requirements	res
S.C. Regulation 61-62.1, Section II(E) Synthetic Minor Construction Permits	Yes
S.C. Regulation 61-62.5, Standard No. 1 Emissions from Fuel Burning Operations	Yes
S.C. Regulation 61-62.5, Standard No. 3 Waste Combustion and Reduction	Yes
S.C. Regulation 61-62.5, Standard No. 4 Emissions from Process Industries	Yes
S.C. Regulation 61-62.6 Control of Fugitive Particulate Matter	Yes
S.C. Regulation 61-62.60 South Carolina Designated Facility Plan and New Source Performance	Voc
Standards	Yes
S.C. Regulation 61-62.70 Title V Operating Permit Program	Yes
40 CFR 60 Subpart A General Provisions	Yes
40 CFR 60 Subpart Db Industrial-Commercial-Institutional Steam Generating Units	Yes
40 CFR 63 Subpart A General Provisions	Yes
40 CFR 76 - Acid Rain Nitrogen Oxides Emission Reduction Program	No