AIR QUALITY PERMIT

Permit No. 4911-185-0107-E-01-0

Effective Date July 19, 2010

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to and in effect under that Act,

Facility Name: Wiregrass Plant

Mailing Address: 3500 Parkway Lane Norcross, GA 30092

is issued a Permit for the following:

Construction and operation of a 40 MW biomass-fired power generation facility consisting of a 626 MMBtu/hr heat input capacity bubbling fluidized bed boiler firing woody biomass, sewage sludge and natural gas (during startup); a 150 hp diesel fired pump engine; a mechanical draft cooling tower; a hog tower for storing woody biomass; and an ash silo for storing ash from the boiler.

Facility Location: Inner Perimeter Road Valdosta, Georgia 31603 (Lowndes County)

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 19407 dated December 16, 2009; any other applications upon which this Permit is based; supporting data entered therein or attached thereto; or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 14 pages.

(SIGNED)

Director Environmental Protection Division

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ATTACHMENT A

Emission Units						
Emissions Units			Air Pollution Control Devices			
ID No.	Description	Applicable Requirements/Standards	ID No.	Description		
B-1	626 MMBtu/hr Biomass Wood-fired Boiler (natural gas used for startup)	391-3-102(2)(d) 391-3-102(2)(g) 40 CFR 60, Subparts A and Db 40 CFR 72 40 CFR 61 Subparts A and E 40 CFR 96 Subpart CC	DAC1	Selective Catalytic Reduction Sorbent Injection in Dry Scrubber Baghouse CO Oxidation Catalyst		
FPUMP		391-3-102(2)(b) 391-3-102(2)(g) 40 CFR Part 60 Subparts A and IIII	NA	NA		
ASILO	Ash Silo	391-3-102(2)(b) 391-3-102(2)(n) 391-3-102(2)(e)(1)	BAG2	Baghouse		
HOGT	Hog Tower	391-3-102(2)(b) 391-3-102(2)(n) 391-3-102(2)(e)(1)	СҮС	Cyclone		
COOL	Cooling Tower	391-3-102(2)(b) 391-3-102(2)(n) 391-3-102(2)(e)(1)	DRIFT	Drift Eliminator		

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1. General Requirements

- 1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection or surveillance of the source.
- 1.2 The Permittee shall not build, erect, install or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged into the atmosphere.
- 1.3 The Permittee shall submit a Georgia Air Quality Permit application to the Division prior to the commencement of any modification, as defined in 391-3-1-.01(pp), which may result in air pollution and which is not exempt under 391-3-1-.03(6). Such application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. The application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity and pollutant emission rates of the plant before and after the change, and the anticipated completion date of the change.
- 1.4 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and shall be retained for at least five (5) years following the date of entry.
- 1.5 In cases where conditions of this Permit conflict with each other for any particular source or operation, the most stringent condition shall prevail.
- 1.6 The Permittee shall comply with all applicable provisions of the Acid Rain Program as found in 40 CFR Part 72 "Permit Regulations", 40 CFR Part 73 "Sulfur Dioxide Allowance System", 40 CFR Part 75 "Continuous Emissions Monitoring", and 40 CFR Part 77 "Excess Emissions" for operation of the biomass fired Boiler B-1.
 [40 CFR Parts 72, 73, 75, and 77]

2. Allowable Emissions

1.1 The Permittee shall comply with all applicable provisions of the "New Source Performance Standards" as found in 40 CFR Part 60, Subpart A, "General Provisions" and 40 CFR 60, Subpart Db, "Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units" for the operation of Boiler B-1. [40 CFR 60, Subparts A and Db]

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1.2 The Permittee shall not discharge or cause the discharge into the atmosphere from Boiler B-1 emissions that:

[40 CFR 60.43b(f) and (h)(1); 391-3-1-.02(2)(d) subsumed]

- a. Contain particulate matter in excess of 0.03 pounds per million BTU heat input. This particulate matter standard shall apply at all times except periods of startup, shutdown, and malfunction.
- b. Exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity. This opacity standard shall apply at all times except periods of startup, shutdown, and malfunction.
- 2.3 The Permittee shall not discharge or cause the discharge into the atmosphere, from Boiler B-1, emissions of nitrogen oxides (NOx), carbon monoxide (CO), or sulfur dioxides (SO₂) in an amount exceeding 247 tons of each pollutant during any twelve consecutive months. [Avoidance of PSD]
- 2.4 The Permittee shall only fire clean woody biomass from forestry residue, mill residue, and clean urban wood waste; wastewater treatment plant sludge of approximately 0.5 percent of total heat input to the boiler; as well as small quantities of natural gas during startup, shut down and bed stabilization in Boiler B-1. For the purpose of this condition any wood wastes that have been painted, pigment-stained, or pressure treated with compounds such as chromate, copper arsenate, pentachlorophenol, and creosote are not considered biomass. Plywood, particleboard, oriented strand board, and other types of wood wastes bound by glues and resins are also not considered biomass. The annual natural gas usage in Boiler B-1 shall not exceed a total heat input of 548,376 MMBtu. [391-3-1-.03(1)(c) and 40 CFR 60.44(d)]
- 1.5 The Permittee shall not burn fuel containing more than 3 percent sulfur, by weight, in Boiler B-1.[391-3-1-.02(2)(g)2]
- 2.6 The Permittee shall not discharge into or cause the discharge into the atmosphere from the fire pump (FPUMP), Ash Silo (ASILO), Hog Tower (HOGT) and Cooling Tower (COOL) any visible emissions the opacity of which is equal to or greater than forty percent. [391-3-1-.02(2)(b)1]
- 1.7 The Permittee shall comply with all applicable provisions of 40 CFR Part 60 New Source Performance Standards (NSPS), Subpart A "General Provisions" and Subpart IIII "Standards for Stationary Compression Ignition Internal Combustion Engines", for the operation of the fire pump (FPUMP). The Permittee shall comply with emission standards for nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM) specified below, per 40 CFR 89.112 and 40 CFR 89.113, during the useful life of the engine. [40 CFR 60.4202(d); 40 CFR 60.4205(b), (c); and Tables 1 and 4 of 40 CFR 60 Subpart IIII]

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* Based on Tier 3 certification, emission standards for 2010 and later for nonroad diesel engines, NSPS Subpart IIII. NMHC means non-methane hydrocarbons.

2.8 The accumulated non-emergency service (maintenance checks and readiness testing) time for the fire pump (FPUMP) shall not exceed 100 hours per year. Any operation other than emergency operation, maintenance checks and readiness testing is prohibited. [40 CFR 60.4211(e)]

	g/kW-hr (g/HP-hr)			
Pollutant	NMHC + NOx	СО	PM	
Emission Limits for FPUMP*	4.0 (3.0)	4.92 (3.7)	0.29 (0.22)	

- 2.9 The Permittee shall operate the fire pump (FPUMP) only with diesel fuel that meets the requirements of 40 CFR 80.510(a). Beginning October 1, 2010 the Permittee must use diesel fuel that meets the requirements of 40 CFR 80.510(b).[40 CFR 60.4207 and 391-3-1-.02(2)(g) subsumed]
- 2.10 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the storage silos (ASILO and HOGT) any gases, which contain particulate matter in excess of the rate derived from the applicable equation below:[391-3-1-.02 (2)(e)(1)]
 - a. For process input weight rate up to and including 30 tons per hour: $E = 4.1P^{0.67}$
 - b. For process input weight rate above 30 tons per hour: $E = 55P^{0.11} 40$

Where E equals the allowable PM emission rate in pounds per hour and P equals the total dry process input weight rate in tons per hour.

2.11 The Permittee shall not discharge or cause the discharge into the atmosphere from Boiler B-1, any single hazardous air pollutant (HAP), which is listed in Section 112 of the Clean Air Act, in an amount equal to or exceeding 10 tons during any twelve consecutive months, or any combination of such listed pollutants in an amount equal to or exceeding 25 tons during any twelve consecutive months.

[Avoidance of 40 CFR 63 Subpart B and Section 112(g) of Clean Air Act]

2.12 Boiler B-1 shall comply with all applicable provisions of 40 CFR 61, Subpart E the "National Emission Standard for Mercury" when firing wastewater treatment plant sludge.[40 CFR 61 Subparts A and E]

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- 2.13 The Permittee shall not discharge or cause the discharge into the atmosphere from Boiler B-1, emissions of mercury in excess of 7.2E-06 lb/MMBtu.
 [40 CFR 61.52(b) and 391-3-1-.02(2)(a)3.(ii)]
- 2.14 The Permittee shall comply with all applicable requirements of 40 CFR 96 Subpart CC. This rule contains the provisions of the Clean Air Interstate Rule (CAIR). If required, the Permittee shall submit a complete CAIR permit application to the Division, per 40 CFR 96.122, as prescribed. [40 CFR 96]
- 2.15 Emissions of the following HAPs from Boiler B-1 shall not exceed the following limits: [Avoidance of Title III]
 - a. Benzene: 5.9E-04 lb/MMBtu
 - b. Formaldehyde: 4.7E-04 lb/MMBtu
 - c. Hydrogen Chloride (HCl): 0.003 lb/MMBtu

3. Fugitive Emissions

- 3.1 The Permittee shall take all reasonable precautions with any operation, process, handling, transportation, or storage facilities to prevent fugitive emissions of air contaminants. [391-3-1-.02(2)(n)1]
- 3.2 The Permittee shall comply with Georgia Air Quality Control Rules 391-3-1-.02(2)(n), "Fugitive Dust", for the entire processing facility including all roadways and processing equipment not otherwise subject to any other rule or regulation governing fugitive visible emissions. Subject to this rule, the Permittee shall not cause, let, permit, suffer or allow visible emissions from any fugitive source to equal or exceed 20 percent opacity. [391-3-1-.02(2)(n)2]

4. **Process & Control Equipment**

- 1.1 Routine maintenance shall be performed on all air pollution control equipment. Maintenance records shall be recorded in a permanent form suitable and available for inspection by the Division. The records shall be retained for at least five years following the date of such maintenance.
- 4.2 The fire pump (FPUMP) shall be operated and maintained according to the manufacturer's written specifications/instructions, or procedures developed by the Permittee that are approved by the engine manufacturer, over the entire life of the engine. [40 CFR 60.4211(a)]
- 4.3 In order to comply with Permit Conditions 2.3 and 2.11, the Permittee shall operate the selective catalytic reduction system (SCR), dry scrubber injection system (SORB), catalytic

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oxidation system (COCAT) and baghouse (BAG1) at all times that Boiler B-1 is in operation except during periods of startup, shutdown, and malfunction.

- 4.4 The Permittee shall maintain a 3-hour block average sorbent injection rate (in lb/hr) that equals or exceeds the operating limit established during the most recent Boiler B-1 hydrogen chloride (HCl) performance test, in accordance with the following:
 - a. If the Permittee carries out a test at only one boiler heat input rate, this test shall be done at the highest heat input rate that the boiler will operate. From then on, the Permittee shall maintain the injection rate, in pounds per hour, at or above the average injection rate occurring during the test. The Permittee shall also not operate the boiler at a heat input rate more than 10% higher than the average heat input rate during this test. Any 3hour block average sorbent injection rate that is less than 80% of the sorbent injection rate established during the most recent HCl performance test is a reportable excursion, per Permit Condition 7.5.
 - b. The Permittee may establish an allowable sorbent injection rate that varies according to the boiler heat input rate. To do so, additional testing must be carried out, at an average boiler heat input rate that is not more than 30% of the maximum boiler heat input rate below the average heat input rate during the test done to comply with paragraph a of this Condition. The Permittee can use the results of the two tests to determine an injection rate that is based on heat input (i.e., lb scrubbant per MMBtu). This variable injection rate shall only be used in the range of boiler heat input rates that were used to establish the variable rate, plus or minus 5% of the maximum boiler heat input rate. At heat input rates lower than that, the Permittee shall maintain the injection rate at or above the injection rate determined for 5% below the average boiler heat input rate of the low heat input test. As with paragraph a, the Permittee shall not operate the boiler at more than 10% higher than the average heat input rate during the test.
 - c. The Permittee is allowed to establish a wider range of variable sorbent injection rates by carrying out additional testing in accordance with paragraph b of this condition.
 - d. Prior to the initial test, the sorbent injection rate shall be set in accordance with the manufacturer's recommendation.
 - e. Along with the test results, the Permittee shall submit the minimum sorbent injection rate determined in accordance with this condition, along with any calculations done to set the injection rate, to the Division for review and approval.
- 4.5 To comply with Permit Conditions 2.6 and 2.10, the Permittee shall install and operate a baghouse (BAG2) on the ash silo (ASILO) and a cyclone (CYC) on the hog tower (HOGT). The Permittee shall operate these control devices at all times the ash silo and hog tower are operated.

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5. Monitoring

- 5.1 Any continuous monitoring system or device required by the Division and installed by the Permittee shall be in continuous operation except during calibration checks, zero and span adjustments or period of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.
- 5.2 The Permittee shall install, calibrate, maintain, and operate a non-resettable continuous monitoring system (or device) for the fire pump (FPUMP) to track the hours of operation. The Permittee shall maintain documentation that demonstrates the reason the fire pump was in operation, and whether in emergency service or non-emergency service (maintenance and/or testing), for each period of operation. The system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)]
- 5.3 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated parameters on the following equipment. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
 - a. The sorbent feed rate of the dry scrubber, using a reagent feed rate monitoring device certified by the manufacturer to be accurate within 5 percent of the design feed rate.
 - b. Pressure drop across the scrubber baghouse (BAG1). The pressure drop indicator shall be certified by the manufacturer to be accurate within 5 percent of the design pressure drop.
- 5.4 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
 - a. Carbon monoxide from Boiler B-1
 - b. Sulfur dioxide from Boiler B-1
 - c. Nitrogen oxides from Boiler B-1

The emissions shall be reported as parts per million (PPM) and pounds per million BTU (lb/MMBtu). [391-3-1-.02(6)(b)]

5.5 The Permittee shall install, calibrate, maintain, and operate a continuous monitoring system (COMS) for measuring the opacity of emissions that are discharged to the atmosphere from Boiler B-1 and record the output of the system. The COMS system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b) and 40 CFR 60.483b(a)]

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5.6 The Permittee shall measure and record the amount and type of fuel combusted in Boiler B-1 on a daily basis, including biomass, wastewater treatment plant sludge and natural gas whenever natural gas is fired in it. [391-3-1-.02(6)(b)]

6. **Performance Testing**

- 6.1 The Permittee shall cause to be conducted a performance test at any specified emission point when so directed by the Division. The following provisions shall apply with regard to such tests:
 - a. All tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.
 - b. All test results shall be submitted to the Division within sixty (60) days of the completion of testing.
 - c. The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.
 - d. All monitoring systems and/or monitoring devices required by the Division shall be installed, calibrated and operational prior to conducting any performance test(s). For any performance test, the Permittee shall, using the monitoring systems and/or monitoring devices, acquire data during each performance test run. All monitoring system and/or monitoring device data acquired during the performance testing shall be submitted with the performance test results.
- 6.2 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. The methods for the determination of compliance with emission limits listed under Section 2 which pertain to the emission units listed in Attachment A are as follows:
 - a. Method 1 for the determination of sample point locations.
 - b. Method 2 for the determination of stack gas flow rate.
 - c. Method 3 or 3A for the determination of stack gas molecular weight.
 - d. Method 3B for the determination of the emission rate correction factor or excess air; Method 3A may be used as an alternate.

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- e. Method 4 for the determination of stack gas moisture.
- f. Method 5 and Method 202 for the determination of Particulate Matter emissions.
- g. Method 6 or 6C for the determination of Sulfur Dioxide emissions.
- h. Method 7 or 7E for the determination of Nitrogen Oxides emissions.
- i. Method 9 for the determination of Opacity. Data from the COMS required by Permit Condition 5.6 may be used in lieu of Method 9 if the performance evaluation of the COMS has been completed and the results approved by the Division.
- j. Method 10 or 10b for the determination of carbon monoxide emissions.
- k. Method 19, when applicable, to convert particulate matter, carbon monoxide, sulfur dioxide, and nitrogen oxide concentrations (i.e., grains/dscf for PM; ppm for gaseous pollutants), as determined using other methods specified in this section, to emission rates (i.e., lb/MMBtu).
- 1. Method 26 or 26A for the determination of hydrochloric acid (HCl) emissions.
- m. Method 101A of 40 CFR 61 Appendix B shall be used to determine mercury emissions. As an alternative, Method 105 may be used.
- n. Method 18 for the determination of Benzene emissions.
- o. Method 316 for determination of Formaldehyde emissions.
- 6.3 Within 180 days after initial startup of Boiler B-1, the Permittee shall conduct performance evaluations of each continuous emissions monitoring system (CEMS) for NOx, SO₂ and CO, and the continuous opacity monitoring system (COMS) that are required by Permit Conditions 5.4 and 5.5. Performance Specification 1 in 40 CFR 60 Appendix B shall be used to evaluate the performance of the COMS, Performance Specification 2 in 40 CFR 60 Appendix B shall be used to evaluate the performance Specification 4 in 40 CFR 60 Appendix B shall be used to evaluate the performance of the CO CEMS. [40 CFR 60.13(c) and 60.48b(a)]
- 6.4 Within 60 days after achieving the maximum operating rate, but no more than 180 days after initial startup, the Permittee shall conduct the initial performance test for particulate matter (PM) emissions and opacity from Boiler B-1. The facility shall monitor and record the pressure drop of the baghouse during PM testing. Each test run shall be of 2 hours duration and have a minimum sample volume of 1.7 dscm (60 dscf). The temperature of the probe and the sample gas at the filter shall be maintained at 320 ± 25 degrees F. [40 CFR 60.8(a) and 60.46b(d)]

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- 6.5 Within 180 days after the initial startup of Boiler B-1, the Permittee shall conduct initial performance testing for HCl emissions for the boiler operating at the maximum load, using the test method specified in Permit Condition 6.2, at the inlet and outlet of the dry scrubber. During testing, the pressure drop across the baghouse and the sorbent injection rate shall be monitored continuously and recorded at least every 15 minutes. Based on data collected through the performance testing, the Permittee shall report these parameters. HCl performance tests are required annually thereafter. The HCl emission rates shall be expressed as pounds per million BTU (lb/MMBtu). [391-3-1-.02(6)(b)1]
- 6.6 Within 180 days after initial startup of Boiler B-1, the Permittee shall conduct initial performance testing for sulfur dioxide (SO₂), nitrogen oxide (NOx) and carbon monoxide (CO) emissions from Boiler B-1 using the test methods specified in Permit Condition 6.2. The emission rates shall be reported as pounds per million BTU (lb/MMBtu). [Avoidance of 40 CFR 52.21]
- 6.7 Within 180 days after initial startup of Boiler B-1, the Permittee shall conduct a performance test for emissions of mercury from Boiler B-1. If sewage sludge is not fired in the boiler during those first 180 days, testing is not required. However, if the Permittee begins firing sewage sludge after the first 180 days, testing shall be done within 30 days of starting to fire sewage sludge. The emission rates shall be reported as pounds per hour and pounds per million BTU (lb/MMBtu).

[40 CFR 61 Subpart E and 391-3-1-.02(2)(a)3.(ii)]

- 1.8 The Permittee shall submit in writing to the Division the results of the initial performance testing required by Permit Conditions 6.4, 6.5, 6.6 and 6.7 within 60 days following completion of each test. Results of NOx, SO₂ and CO CEMS and COMS evaluations shall also be submitted to the Division within 60 days following completion of the evaluations. For HCl performance testing, the test report shall identify the sorbent used and the sorbent injection flow rate during the test, and the baghouse pressure drop during the tests.
- 1.9 The Permittee shall determine the heat content of the fuels fired in Boiler B-1 (Fuel F factor) during the initial performance test and annually thereafter. The heat content (Fuel F factor) shall be redetermined if there is a change in the fuels fired.[40 CFR 60 Subpart Db, 391-3-1-.02(3) and 391-3-1-.03(2)(c)]
- 6.10 Within 180 days after initial startup of Boiler B-1, the Permittee shall conduct initial performance testing for Benzene and Formaldehyde emissions from Boiler B-1 using test methods specified in Permit Condition 6.2. The emission rates shall be reported as pounds per million BTU (lb/MMBtu). [Avoidance of 40 CFR 52.21]

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7. Notification, Reporting and Record Keeping Requirements

- 7.1 In addition to any other reporting requirements of this Permit, the Permittee shall report to the Division in writing, within seven (7) days, any deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning, or emissions control equipment for a period of four hours or more which results in excessive emissions. The Permittee shall submit a written report which shall contain the probable cause of the deviation(s), duration of the deviation(s), and any corrective actions or preventive measures taken.
- 7.2 The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative. Said records shall be retained by the Permittee for at least five years after the date of any such startup, malfunction, or measurement.
- 7.3 The Permittee shall provide all notifications required by 40 CFR 60.7 by the dates specified. Specifically, the Permittee shall provide notifications of:
 - a. The actual date of initial startup of Boiler B-1 postmarked within 15 day after such date, and identification of the fuels to be combusted in the boiler.
 - b. The anticipated date of any performance testing, including NOx, SO₂ and CO CEMS and COMS performance evaluations, at least 30 days before the performance test or evaluation is scheduled to begin.
 - c. The annual capacity factor at which the Permittee anticipates operating Boiler B-1, based on all fuels fired and based on each individual fuel fired.
- 7.4 The Permittee shall submit a written report for the COMS, for each quarterly period ending March 31st, June 30, September 30th and December 31 of each year, that includes the following information:
 - a. A summary of opacity exceedances and COMS downtime during the reporting period. For the purposes of this condition, an opacity exceedance is defined as any 6-minute average opacity that exceeds the limit set forth in Permit Condition 2.2.b.
 - b. The date and time of the beginning and end of each opacity exceedance.
 - c. Specific identification of each period of such exceedances occurring during startup, shutdown, or malfunction of Boiler B-1. Include the nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.

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- d. The date and time identifying each period during which the COMS was inoperative (including periods of malfunction), except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the COMS has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- e. The type and amount of fuel burned each month during the reporting period.

All quarterly reports shall be submitted in a manner suitable to the Division and postmarked by the 30th day following the end of each reporting period, April 30, July 30, October 30, and January 30, respectively.

- 7.5 The Permittee shall submit a written report for each calendar quarter, by the end of the month following the quarter, that includes the following information:
 - a. A summary of nitrogen oxides, sulfur dioxide and carbon monoxide CEMS downtime during the reporting period.
 - b. A summary of sorbent injection excursion and sorbent injection monitor downtime during the reporting period. For the purposes of this permit, a sorbent injection excursion is defined as any 3-hour block average that the sorbent injection rate is below the level established using data from the most recent performance test.
 - c. The total operating time and the types and amounts of fuels fired in the Boiler B-1, each month during the reporting period.
 - d. Calculated monthly and consecutive twelve-month rolling totals for carbon monoxide (CO), nitrogen oxides (NO_x), and sulfur dioxide (SO₂) emissions, for each month of the reporting period. Each twelve-month rolling total shall consist of the monthly totals and the monthly totals for the last eleven consecutive months.
 - e. The magnitude of all exceedances and excursions and the date and time of the commencement and completion of each time period of occurrence.
 - f. Specific identification of each period of such exceedances and excursions occurring during startup, shutdown, and malfunction of the facility. Include the nature and cause any malfunction (if known), the corrective action taken, or the preventive measures adopted.
 - g. A summary of the baghouse pressure drop pressure excursion and the baghouse pressure drop monitor downtime during the reporting period. For the purpose of this permit, a pressure drop excursion is defined as any three hour period during which the block average pressure drop across the baghouse is less than the effective level determined by the Division using prior testing data.

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- h. The date and time identifying each period during which any required monitoring system or device was inoperative (including periods of malfunction), except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the monitoring system or device has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
- 7.6 The Permittee shall maintain monthly records of the operation of the fire pump (FPUMP) in emergency and non-emergency service that are recorded through the monitoring system required in Permit Condition No. 5.2. The Permittee shall record the time of operation of the engine and the reason the engine was in operation during that time.
- 7.7 The Permittee shall demonstrate compliance with the applicable emission limits in Permit Condition 2.7 for the fire pump (FPUMP), by purchasing a certified engine. The engine shall be installed and configured according to the manufacturers specifications. Records shall be maintained for a period of five (5) years in a format suitable for inspection by or submission to the Division.
- 7.8 The Permittee shall use the data from each CEMS required by Permit Condition 5.4 to determine and record the monthly mass emission rate, in tons per month, of NO_x, CO and SO₂. These records (including calculations) shall be maintained as part of the monthly record, suitable for inspection or submittal and shall be submitted each month to the Division. [391-3-1-.02(6)(b)1, 40 CFR 70.6(a)(3)(i), and Avoidance of 40 CFR 52.21]
- 7.9 Within 90 days after the startup of the plant, the Permittee shall submit a detailed example of the records required by Permit Condition 7.8. The Permittee shall use these records to determine and record the twelve consecutive month total emission rate, in tons, of NO_x, CO and SO₂ emissions from Boiler B-1. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal. [391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]
- 7.10 The Permittee shall notify the Division in writing if emissions of NOx, CO, or SO₂ exceed 20.5 tons from Boiler B-1, during any month, or if the emissions of NOx, CO, or SO₂ exceed 247 tons from the boiler, during any twelve consecutive months, and shall include an explanation of how the Permittee intends to maintain or regain compliance with the applicable emission limit in Permit Condition No. 2.3.
- 7.11 The Permittee shall record and maintain records of the amounts of each fuel combusted during each day in Boiler B-1 using the device(s) required by Permit Condition 5.6, and calculate the annual capacity factor individually for natural gas, wood and wastewater treatment plant sludge for the reporting period. The annual capacity factor must be determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

[40 CFR 60.49b(d)]

7.12 The Permittee shall submit to the Division the guarterly metals analysis of the Mud Creek wastewater treatment plant sludge that is co-fired with the woody biomass in Boiler B-1, which shall contain the mercury content of the sludge.

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7.13 The Permittee shall verify that each shipment of clean urban wood waste received for combustion in the Boiler B-1 complies with the requirements of Permit Condition 2.4. Verification shall consist of fuel receipts obtained from the fuel supplier certifying that the fuel is clean urban wood waste. The Permittee shall retain records on site for a period of at least five years in a format suitable for inspection. [391-3-1-.02(6)(b)1]

8. Special Conditions

- 8.1 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.
- 8.2 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of the fee shall be determined each year in accordance with the "Procedures for Calculating Air Permit Fees."
- 8.3 The Permittee shall prepare and submit an initial Title V Operating Permit Application for the operation of the Wiregrass Plant in accordance with 40 CFR 70.5 within 12 months after commencing operation. [40 CFR Part 70]
- 8.4 The Permittee shall submit a complete Acid Rain Permit application (including a compliance plan) per 40 CFR 72 in accordance with the deadlines specified in 40 CFR 72.30 and shall operate the Boiler B-1 in compliance with a complete Acid Rain Permit application until an Acid Rain Permit is issued by the Division.