

AIR QUALITY PERMIT

Permit No.
4911-119-0025-E-03-0

Effective Date

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: **Plant Carl**

Mailing Address: 3295 River Exchange Drive, Suite 300
Norcross, Georgia 30092

is issued a Permit for the following:

Construction and operation of a 25 MW steam-turbine generator powered by steam from a 400 MMBtu/hr bubbling fluidized bed (BFB) boiler firing a combination of chicken litter, woody biomass, and small quantities of waste cooking oil/grease/animal fat/biodiesel during startup.

Facility Owner: Green Energy Partners, LLC
Facility Location: 3465 Highway 198
Carnesville, Georgia 30521 (Franklin 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. 18072 dated March 18, 2008; 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.

Director
Environmental Protection Division

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 1 of 14

**ATTACHMENT A:
Emission Units**

Emissions Units			Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	ID No.	Description
B1	400 MMBtu/hr Bubbling Fluidized Bed Boiler fired on wood/chicken litter	391-3-1-.02(2)(d), 391-3-1-.02(2)(g), 40 CFR 60, Subpart Db, 40 CFR 63, Subpart A 40 CFR 63, Subpart B	SNCR, OX1, M1, EH1	Selective Non Catalytic Reduction, Oxidation Catalyst, Dry Scrubber, Electrostatic Precipitator
S1	Storage Silo for Trona	40 CFR 60, Subpart OOO	F1	Bin Vent Filter

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 2 of 14

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.

State of Georgia
Department of Natural Resources
Environmental Protection Division

Permit No.
4911-119-0025-E-03-0

Page 3 of 14

2. Allowable Emissions

- 2.1 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 the Boiler (Source Code B1).
[40 CFR 60, Subparts A and Db]
- 2.2 The Permittee shall not discharge or cause the discharge into the atmosphere from the Boiler (Source Code B1) emissions that:
[40 CFR 60, Subpart Db, 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 comply with all applicable provisions of the “National Emission Standards for Hazardous Air Pollutants” as found in 40 CFR 63, Subpart A, “General Provisions” for operation of the Boiler (Source Code B1).
[40 CFR 63, Subparts A]
- 2.4 The Permittee shall not discharge or cause the discharge into the atmosphere from the Boiler (Source Code B1) emissions that:
[40 CFR 63, Subpart B]
 - a. Contain Total Selected Metals in excess of 0.0003 pounds per million BTU heat input. Total Selected Metals means the combination of the following metallic hazardous air pollutants: arsenic, beryllium, cadmium, chromium, lead, manganese, nickel, and selenium. This standard shall apply at all times except periods of startup, shutdown, and malfunction.
 - b. Contain hydrogen chloride in excess of 0.02 pounds per million BTU heat input. This standard shall apply at all times except periods of startup, shutdown, and malfunction.
 - c. Contain mercury in excess of 0.000003 pounds per million BTU heat input. This standard shall apply at all times except periods of startup, shutdown, and malfunction.
 - d. Contain carbon monoxide in excess of 0.149 pounds per million BTU heat input. This standard shall apply at all times except periods of startup, shutdown, and malfunction.
 - e. Exhibit greater than 10 percent opacity (1-hour average). This standard shall apply at all times except periods of startup, shutdown, and malfunction.

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 4 of 14

- 2.5 The Permittee shall not burn fuel containing more than 3 percent sulfur, by weight, in the Boiler (Source Code B1).
[391-3-1-.02(2)(g)2]
- 2.6 The Permittee shall not discharge or cause the discharge into the atmosphere, from the facility, emissions of nitrogen oxides (NO_x), carbon monoxide (CO), or sulfur dioxide (SO₂) in an amount exceeding 249 tons during any twelve consecutive months.
[Avoidance of 40 CFR 52.21]
- 2.7 The Permittee shall only fire woody biomass, chicken litter, waste cooking oil/grease/animal fat and biodiesel in the Boiler (Source Code B1).
- 2.8 The Permittee shall comply with the detailed provisions of 40 CFR, Part 60 Subpart OOO, "Standards of Performance of Nonmetallic Mineral Processing Plants" for the affected portion of the Storage Silo (Emission Unit ID S1). The affected portion shall include any grinding mill, screening operation, belt conveyor, and storage bin associated with the Trona handling process. In particular, the Permittee shall not discharge, or cause the discharge, into the atmosphere, [40 CFR 60 Subpart OOO]
- a. from any crusher, at which a capture system is not used, any fugitive emissions which exhibit greater than 15 percent opacity.
 - b. from any stack, emissions which contain particulate matter in excess of 0.05 g/dscm (0.022 grains/dscf) or exhibit greater than 7 percent opacity.
 - c. from any screening operation, belt conveyor transfer point, bagging operation, storage bin, enclosed truck or railcar loading station, or from any other affected equipment any fugitive emissions which exhibit greater than 10 percent opacity.
 - d. any visible emissions from;
 - i. wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin and,
 - ii. screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

For processing equipment subject to Subpart OOO located inside a building, the Permittee shall comply with the above process limits (a, b, c, and d), or shall not discharge or cause the discharge into the atmosphere, any

- e. visible fugitive emissions from the building

State of Georgia
Department of Natural Resources
Environmental Protection Division

Permit No.
4911-119-0025-E-03-0

Page 5 of 14

- f. emissions from a powered building vent which contain particulate matter in excess of 0.05 g/dscm (0.022 grains/dscf) or exhibit greater than 7 percent opacity.

Note: Truck, railcar, front end loader, or other movable vehicle dumping nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this condition. [40 CFR 60 Subpart OOO 60.672(d)]

- 2.9 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the Storage Silo (Emission Unit ID. No. S1) any gases which contain particulate matter in excess of the rate derived from the equation noted below:
[391-3-1-.02 (2)(e)(1)]

- a. For process input weight rate up to and including 30 tons per hour:
 $E = 4.1P^{0.67}$; or
- 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.

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.
- 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]

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 6 of 14

4. Process & Control Equipment

- 4.1 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 In order to comply with Condition 2.6, the Permittee shall operate the Selective Non-Catalytic Reduction system (APCD ID No. SNCR) at all times, except during periods of startup, shutdown or malfunction, that the Boiler (Source Code B1) is in operation.
- 4.3 In order to comply with Condition 2.6, the Permittee shall operate the Oxidation Catalyst (APCD ID No. OX1), Dry Scrubber (APCD ID No. M1), and Electrostatic Precipitator (APCD ID No. E1) at all times, except during periods of startup, shutdown or malfunction, that the Boiler (Source Code B1) is in operation.
- 4.4 The Permittee shall prepare and operate in accordance with a Startup, Shutdown, and Malfunction Plan (SSMP) for the operation of the Boiler (Source Code B1) and its associated control devices (APCD ID Nos. OX1, M1, and E1).

5. Monitoring

- 5.1 Any monitoring system or device 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 system to continuously monitor and record the sorbent injection rate on the Dry Scrubber (APCD ID No. M1).
- 5.3 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.
[391-3-1-.02(6)(b)1]
 - a. The Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for the measurement of visible emissions from the Boiler (Source Code: B1).
 - b. The Permittee shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for the measurement of nitrogen oxide (NO_x) emissions from the Boiler (Source Code: B1). The NO_x emission rate shall be recorded in pounds per million Btu heat input.

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 7 of 14

- c. The Permittee shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for the measurement of carbon monoxide (CO) emissions from the Boiler (Source Code: B1). The CO emission rate shall be recorded in pounds per million Btu heat input.
 - d. The Permittee shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for the measurement of sulfur dioxide (SO₂) emissions from the Boiler (Source Code: B1). The SO₂ emission rate shall be recorded in pounds per million Btu heat input.
 - e. In addition to the requirements in paragraphs b., c., and d., of this condition, the NO_x, CO, and SO₂ CEMS shall meet the requirements of EPA Performance Specification 6 so that the CEMS can measure emissions on a mass per unit time basis.
- 5.4 Once each day or portion of each day of operation, the Permittee shall inspect all affected emission points as identified in Condition 2.8 from the materials handling system (Emission Unit ID S1). The inspection shall be conducted by performing a walk through of the facility and noting the occurrence of the following in a daily (VE) log:
- a. Any visible emissions. The visible emission check may be performed on the building containing the emission unit or directly on the emission unit.
 - b. Any mechanical failure or malfunction that results in increased air emissions.

For each emission point noted with visible emissions, mechanical problems or malfunctions, the Permittee shall take corrective action in the most expedient manner possible and re-inspect the unit within 24 hours to verify that no visible emissions exist. Failure to eliminate the visible emissions or to correct the mechanical failure or malfunction specified in paragraph a and paragraph b within 24 hours shall constitute an excursion.

State of Georgia
Department of Natural Resources
Environmental Protection Division

Permit No.
4911-119-0025-E-03-0

Page 8 of 14

5.5 The Permittee shall, using the procedures of Appendix F, Procedure 1 (Quality Assurance Requirements for Gas Continuous Emissions Monitoring Systems Used for Compliance Determination) contained in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants, to assess the quality and accuracy of the data acquired by the CEMS required by Condition 5.3. The Permittee shall maintain records specifying the results of the daily CEMS drift tests and quarterly accuracy assessments under Appendix F, Procedure 1. In addition, the Permittee shall maintain records which identify the Out-of-Control Periods (as defined in Appendix F, Procedure 1) for the CEMS during each calendar quarter. The following exceptions to Appendix F, Procedure 1 are allowed:
[391-3-1-.02(6)(b)1]

- a. The cylinder gas audit (CGA) is only required to be conducted in a calendar quarter if the Boiler (Source Code: B1) is operated during the quarter.
- b. A Relative Accuracy Test Audit (RATA) shall be conducted annually or every four operating quarters (not to exceed eight calendar quarters) whichever ever is greater. For the purpose of this condition an operating quarter is defined as any calendar quarter during which the Boiler (Source Code: B1) is operated.

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 sixty (60) 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 site-specific test plan in accordance with Division guidelines and the requirements of 40 CFR 63.7(c).
- 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.

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 9 of 14

- 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 2.0 are as follows:
- a. Method 1 for 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.
 - e. Method 4 for the determination of stack gas moisture.
 - f. Method 5 and Method 202 for the determination of Particulate Matter emissions.
 - g. SO₂ CEMS for the determination of Sulfur Dioxide emissions.
 - h. NO_x CEMS for the determination of Nitrogen Oxides emissions.
 - i. Method 9 shall be used for the determination of Opacity. Data from the COMS required by Condition 5.4 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. CO CEMS for the determination of Carbon Monoxide emissions.
 - k. Method 19 when applicable, to convert particulate matter, carbon monoxide, sulfur dioxide, and nitrogen oxides 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).
 - l. Method 26 or 26A for the determination of Hydrogen Chloride emissions.
 - m. Methods 29, 101A and ASTM 6784-02 for the determination of Mercury concentrations;
 - n. Method 29 for the determination of TSM emissions.

Minor changes in methodology may be specified or approved by the Director or his designee when necessitated by process variables, changes in facility design, or improvement or corrections that, in his opinion, render those methods or procedures, or portions thereof, more reliable.

[391-3-1-.02(3)(a)]

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 10 of 14

- 6.3 Within 60 days after achieving maximum operating rate, but no more than 180 days after initial startup, the Permittee shall conduct a performance test for particulate matter emissions from the Boiler (Source Code B1).
- 6.4 Within 180 days after initial startup, the Permittee shall conduct performance tests for Total Selected Metals, hydrogen chloride, and mercury from the Boiler (Source Code B1). Subsequently, the Permittee shall conduct the performance tests specified in this condition on an annual basis.
- 6.5 Within 180 days after initial startup, the Permittee shall conduct performance evaluations of the continuous emissions monitoring system (CEMS) and continuous opacity monitoring system (COMS) required by Condition 5.3.
- 6.6 Within 60 days after achieving the maximum production rate at which the sources will be operated, but no later than 180 days after the initial startup of the listed equipment, the Permittee shall conduct performance test(s) the Storage Silo (S1) to determine compliance with the emissions limitations contained in Condition 2.8 of this permit. Testing shall be conducted according to the methods and procedures contained in 40 CFR 60.675.
[40 CFR 60.8, 40 CFR 60, Subpart OOO]

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 as required per 40 CFR 60.7 by the dates specified. Specifically, the Permittee shall provide notifications of:
 - a. The actual date of initial startup of the Boiler (Source Code B1) postmarked within 15 days after such date; and
 - b. The anticipated date of performance testing, including CEMS and COMS performance evaluations, at least 60 days before the performance test is scheduled to begin. If the Permittee elects to determine compliance with the applicable opacity standard in lieu of Method 9, the notification shall include a statement to this effect.

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 11 of 14

7.4 The Permittee shall submit a written report containing any excess emissions, exceedances, and/or excursions as described in this permit and any monitor malfunctions for each quarterly period ending March 31, June 30, September 30, and December 31 of each year. All reports shall be postmarked by the 30th day following the end of each reporting period, April 30, July 30, October 30, and January 30, respectively. In the event that there have not been any excess emissions, exceedances, excursions or malfunctions during a reporting period, the report should so state. Otherwise, the contents of each report shall be as specified by the Division's Procedures for Testing and Monitoring Sources of Air Pollutants and shall contain the following:

[391-3-1-.02(6)(b)1]

- a. A summary report of excess emissions, exceedances and excursions, and monitor downtime, in accordance with Section 1.5(c) and (d) of the above referenced document, including any failure to follow required work practice procedures.
- b. Total process operating time during each reporting period.
- c. The magnitude of all excess emissions, exceedances and excursions computed in accordance with the applicable definitions as determined by the Director, and any conversion factors used, and the date and time of the commencement and completion of each time period of occurrence.
- d. Specific identification of each period of such excess emissions, exceedances, and excursions that occur during startups, shutdowns, or malfunctions of the affected facility. Include the nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
- e. 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.

7.5 Using the data from recordkeeping required by Condition 5.3, the Permittee shall calculate and record the monthly CO emissions from the Boiler (Source Code: B1).

7.6 The Permittee shall use the records of monthly CO emissions required in Condition Nos. 7.5 to calculate and record the twelve consecutive month total CO emissions from the Boiler (Source Code: B1). The twelve consecutive month total shall be calculated each month by adding that month's CO emissions to the monthly CO emission from the previous eleven months. These records (including calculations) shall be maintained in a format suitable and available for inspection and submittal.

[Avoidance of 391-3-1-.03(8)(c)]

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 12 of 14

- 7.7 Using the data from recordkeeping required by Condition 5.3, the Permittee shall calculate and record the monthly NO_x emissions from the Boiler (Source Code: B1) using the applicable NO_x CEMS records for each month of boiler operation. These records (including calculations) shall be maintained in a format suitable and available for inspection and submittal.
[Avoidance of 391-3-1-.03(8)(c)]
- 7.8 The Permittee shall use the records of monthly NO_x emissions required in Condition No. 7.7 to calculate and record the twelve consecutive month total NO_x emissions from the Boiler (Source Code: B1). The twelve consecutive month total shall be calculated each month by adding that month's NO_x emissions to the monthly NO_x emission from the previous eleven months. These records (including calculations) shall be maintained in a format suitable and available for inspection and submittal.
[Avoidance of 391-3-1-.03(8)(c)]
- 7.9 Using the data from recordkeeping required by Condition 5.3, the Permittee shall calculate and record the monthly SO₂ emissions from Boiler (Source Code: B1) using the applicable SO₂ CEMS records for each month of boiler operation. These records (including calculations) shall be maintained in a format suitable and available for inspection and submittal.
[Avoidance of 391-3-1-.03(8)(c)]
- 7.10 The Permittee shall use the records of monthly SO₂ emissions required in Condition Nos. 7.9 to calculate and record the twelve consecutive month total SO₂ emissions from Boiler (Source Code: B1). The twelve consecutive month total shall be calculated each month by adding that month's SO₂ emissions to the monthly SO₂ emission from the previous eleven months. These records (including calculations) shall be maintained in a format suitable and available for inspection and submittal.
[Avoidance of 391-3-1-.03(8)(c)]
- 7.11 The Permittee shall maintain files of all required measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system or monitoring device calibration checks; and adjustments and maintenance performed on these systems or devices. These files shall be kept in a permanent form suitable for inspection and shall be maintained for a period of at least five (5) years following the date of such measurements, reports, maintenance and records.
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6 (a)(3)(ii)(B)]

40 CFR Part 60 Subpart OOO

- 7.12 In accordance with the provisions of 40 CFR 60.7, for any equipment which is subject to the New Source Performance Standard, the Permittee shall furnish the Division written notification of the actual date of initial startup of NSPS equipment including equipment description, manufacturer, and serial number if available postmarked within 15 days after such date.
[40 CFR Part 60 Subpart OOO]

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 13 of 14

Reporting Requirements

7.13 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 7.4, the following excess emissions, exceedances, and excursions shall be reported:

[391-3-1-.02(6)(b)1]

- a. Excess emissions: (means for the purpose of this Condition and Condition 7.4, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)
 - i. None required to be reported in accordance with Condition 7.4.
- b. Exceedances: (means for the purpose of this Condition and Condition 7.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)
 - i. Any 6-minute average opacity that exceeds the limit in Condition 2.4.e. Any 30-day rolling average CO emissions above 0.149 lb/MMBtu;
 - ii. Any twelve consecutive month total NO_x emissions (tons) from the Boiler (Source Code B1), which exceeds 249 tons.
 - iii. Any twelve consecutive month total CO emissions (tons) from the Boiler (Source Code B1), which exceeds 249 tons.
 - iv. Any twelve consecutive month total SO₂ emissions (tons) from the Boiler (Source Code B1), which exceeds 249 tons.
- c. Excursions: (means for the purpose of this Condition and Condition 7.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)
 - i. Any 3-hour block average sorbent injection rate that is below the operating level established during the most recent performance test;
 - ii. Occurrence in Condition 5.4.a or 5.4.b that is not eliminated (visible emissions) or corrected (mechanical failure or malfunction) within 24 hours;

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

**Permit No.
4911-119-0025-E-03-0**

Page 14 of 14

- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition 7.4:
 - i. Calculated monthly and consecutive 12-month rolling totals for carbon monoxide, nitrogen oxides, and sulfur dioxide emissions, for each month of the reporting period;
 - ii. The total operating time and the types and amounts of fuels fired in the Boiler (Source Code B1) during the reporting period;

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."
- 8.2 Within 12 months from the date of initial startup of the facility, the Permittee shall submit an Initial Title V application.
- 8.3 Air Quality Permit No. 4911-119-0025-E-02-0, previously issued to Earth Resources, Inc. for construction and operation of a waste fuel power facility on October 31, 2006 (project did not commence) is hereby revoked in its entirety.