

# Part 70 Operating Permit

**Permit Number:** 4911-095-0002-V-03-0      **Effective Date:**

**Facility Name:** Mitchell Steam - Electric Generating Plant

**Facility Address:** 5200 Radium Springs Rd  
Albany, GA 31705 (Dougherty County)

**Mailing Address:** 241 Ralph McGill Blvd. NE, Bin 10221  
Atlanta, GA 30308-3374

**Parent/Holding Company:** Southern Company / Georgia Power Company

**Facility AIRS Number:** 04-13-095-00002

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a Part 70 Permit for:

The operation of an electric utility plant including one steam electric generating unit and six simple cycle combustion turbines.

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. Unless modified or revoked, this Permit expires five years after the effective date indicated above.

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, for any misrepresentation made in Title V Application No. 19831 signed on August 6, 2010, any other applications upon which this Permit is based, supporting data entered therein or attached thereto, or any subsequent submittal of 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 **54** pages.

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Director  
Environmental Protection Division

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**PART 1.0 FACILITY DESCRIPTION**

**1.1 Site Determination**

There are no applicable issues with regard to the site determination. There are no other facilities which could possibly be contiguous or adjacent and under common control.

**1.2 Previous and/or Other Names**

This facility is commonly known and referred to as Plant Mitchell. No other names were identified.

**1.3 Overall Facility Process Description**

Plant Mitchell burns fossil fuel to generate electricity. This facility includes one steam generating unit which primarily burns coal and six simple cycle combustion turbines which primarily burn No. 2 fuel oil. The steam generating unit (Source Code: SG03) exhausts through a 500-ft stack. The six combustion turbines operate in pairs with each pair powering a generator rated at 40 megawatts. Each combustion turbine has its own exhaust, which is 25 ft tall. Unit SG03 has been permitted to undergo a conversion to biomass-firing.

**PART 2.0 REQUIREMENTS PERTAINING TO THE ENTIRE FACILITY**

**2.1 Facility Wide Emission Caps and Operating Limits**

None applicable.

**2.2 Facility Wide Federal Rule Standards**

None applicable.

**2.3 Facility Wide SIP Rule Standards**

None applicable.

**2.4 Facility Wide Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit**

None applicable.

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### PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

#### 3.1 Emission Units

| Emission Units |                             | Specific Limitations/Requirements  |  | Air Pollution Control Devices |   |
|----------------|-----------------------------|--|--|-------------------------------|---|
| ID No.         | Description                 | Applicable Requirements/Standards  | Corresponding Permit Conditions  | ID No.                        | Description   |
| SG03           | Steam Generating Unit 3     | 391-3-1-.02(2)(d)<br>391-3-1-.02(2)(g)<br>Acid Rain Regulations<br>40 CFR 60 Subpart A<br>40 CFR 60 Subpart Db<br>40 CFR 64<br>40 CFR 52.21<br>40 CFR 96 | 3.2.1, 3.2.2, 3.2.4, 3.2.5,<br>3.2.6, 3.3.2, 3.3.3, 3.3.4,<br>3.3.5, 3.3.6, 3.3.8, 3.3.9,<br>3.3.10, 3.4.1, 3.4.2,<br>3.4.3, 3.4.6, 4.2.1, 4.2.2,<br>4.2.3, 4.2.4, 5.2.1, 5.2.2,<br>5.2.3, 5.2.4, 5.2.5, 5.2.6,<br>5.2.7, 5.2.8, 5.2.9,<br>5.2.10, 5.2.11, 5.2.12,<br>5.2.13, 5.2.15, 5.2.16,<br>5.2.17, 6.2.1, 6.2.2,<br>6.2.8, 6.2.9, 6.2.10,<br>6.2.11, 6.2.12, 6.2.13,<br>6.2.16, 6.2.20, 6.2.27 | EP03<br>MC03                  | ESP, Multiclone (upon completion of the biomass conversion) |
| CT3            | Combustion Turbine Unit 4AA | 391-3-1-.02(2)(b)<br>391-3-1-.02(2)(g)<br>40 CFR 96  | 3.2.3, 3.4.2, 3.4.3, 6.2.3   | None                          | NA  |
| CT4            | Combustion Turbine Unit 4AB | See CT3  | See CT3  | None                          | NA  |
| CT5            | Combustion Turbine Unit 4BA | See CT3  | See CT3  | None                          | NA  |
| CT6            | Combustion Turbine Unit 4BB | See CT3  | See CT3  | None                          | NA  |
| CT7            | Combustion Turbine Unit 4CA | See CT3  | See CT3  | None                          | NA  |
| CT8            | Combustion Turbine Unit 4CB | See CT3  | See CT3  | None                          | NA  |
| CHS            | Coal Handling System        | 391-3-1-.02(2)(n)  | 3.4.4, 3.4.5, 6.2.5  | None                          | NA  |
| AHS            | Ash Handling System         | 391-3-1-.02(2)(n)  | 3.4.4, 3.4.5, 3.4.7, 3.4.8,<br>3.4.9, 6.2.5, 6.2.17  | None                          | NA  |

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| Emission Units |   | Specific Limitations/Requirements  |   | Air Pollution Control Devices |             |
|----------------|---|--|---|-------------------------------|-------------|
| ID No.         | Description   | Applicable Requirements/Standards  | Corresponding Permit Conditions   | ID No.                        | Description |
| WC03           | 1050 HP Potential Onsite Wood Chipper with 4-Stage Compression Ignition, Reciprocating Internal Combustion Engine(RICE) (upon completion of the biomass conversion) | 391-3-1-.02(2)(b)<br>391-3-1-.02(2)(g)<br>391-3-1-.02(2)(n)<br>40 CFR 63 Subpart A<br>40 CFR 60 Subpart A<br>40 CFR 60 Subpart III<br>40 CFR 63 Subpart ZZZZ<br>40 CFR 52.21 | 3.3.1, 3.3.7, 3.3.12,<br>3.3.13, 3.3.14, 3.3.15,<br>3.3.16, 3.3.17, 3.4.7,<br>3.4.8, 4.2.5, 4.2.6, 4.2.7,<br>5.2.14, 6.2.5, 6.2.8,<br>6.2.9, 6.2.11, 6.2.14,<br>6.2.15, 6.2.17, 6.2.18,<br>6.2.19, 6.2.21, 6.2.22,<br>6.2.23, 6.2.24, 6.2.25,<br>6.2.26 | None                          | NA          |
| BHS            | Biomass Handling System (upon completion of the biomass conversion )  | 391-3-1-.02(2)(n)<br>40 CFR 52.21  | 3.3.11, 3.4.7, 3.4.8,<br>3.4.9, 6.2.17  | None                          | NA          |

\* Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards and corresponding permit conditions are intended as a compliance tool and may not be definitive.

## 3.2 Equipment Emission Caps and Operating Limits

3.2.1 The Permittee shall not fire any fuel other than coal in the steam generating unit (Source Code: SG03) except for the following:  
[391-3-1-.03(2)(c)]

- a. No. 2 fuel oil, biodiesel, or biodiesel blends may be burned for start-up, shutdown, to assist in achieving peak load, and flame stabilization.
- b. Sawdust may be blended and fired with the coal.
- c. Biomass may be blended and fired with the coal. Biomass, as used in this permit, shall include, but not be limited to paper, vegetative matter, or wood chips. Biomass shall not include sawdust (sawdust is covered by 3.2.1b.) or municipal solid waste except as may be specifically listed above.
- d. Used oil, as indicated in condition 3.2.2, may be burned.
- e. Coal-derived synthetic fuel, whose binder has a mercury content of less than or equal to 0.2 ppm on a dry basis and whose binder constitutes approximately 2.5% by weight or less of the coal-derived synthetic fuel, shall be considered coal for the purposes of this permit.

3.2.2 The Permittee shall not burn used oil in the steam generating unit (Source Code: SG03) during periods of startup or shutdown. For the purposes of this permit, startup shall be defined as the period lasting from the time that the first oil fire is established in the furnace until the time that mill/burner performance and secondary air temperature are adequate to maintain an exiting gas temperature above the sulfuric acid dew point.  
[391-3-1-.03(2)(c)]

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- 3.2.3 The Permittee shall not fire any fuel other than No. 2 fuel oil, biodiesel, biodiesel blends or propane in the combustion turbines (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8).  
[391-3-1-.03(2)(c)]
- 3.2.4 Upon completion of the biomass conversion, the Permittee shall not fire any fuel other than the following five categories of biomass fuel, clean wood chips (e.g. pine chips, hardwood chips, pallets and reels), whole tree chips (e.g. trees, shrubs, unmerchantable fuel wood, and thinnings), forest residues (e.g. tops, limbs and bark), manufacturer's residues (e.g. sawdust and sanders dust), and hulls (e.g. peanut and pecan hulls) in Steam Generating Unit (Source Code: SG03) with the exception of the following:  
[391-3-1-.03(2)(c)]
- a. Ultra low sulfur (i.e. < 0.0015%) No. 2 fuel oil, or biodiesel or blend of previous two fuels may be burned for start-up and shutdown, and to assist in achieving peak load and flame stabilization.
  - b. Other untreated biomass for which analysis has been presented to the Division and for which written approval for use has been obtained.

The wood biomass used as fuel for this plant shall be free of foreign material, including, but not limited to metal, glass, rubber, plastics, pressure treated or lead based painted wood, chemicals, post harvest pesticides, and herbicides, or any hazardous or toxic substances as defined under law, or any resins, glues or binders used in the manufacture of plywood or oriented strand board (OSB) including but not limited to zinc borate, chromate copper arsenate, and any formaldehyde based compounds. Forestry residue is defined as treetops, branches and slash, including limbs and prunings, produced from legal clearing, thinning or logging operations on private or public forestlands. Manufacturer residue is defined as untreated bark, sawdust, and small woody debris produced in the manufacture of wood logs into lumber, flooring, paper, plywood or oriented strand board.

- 3.2.5 Upon completion of the biomass conversion, in order to comply with Condition No. 3.3.3, the Permittee shall maintain and operate the associated Dry Electrostatic Precipitator (APCD ID No. EP03) and the Multiclone (APCD ID No. MC03) at all times that the Steam Generating Unit (Source Code: SG03) is operating, except during startup, shutdown and malfunction.  
[391-3-1-.03(2)(c)]

### 3.3 Equipment Federal Rule Standards

- 3.3.1 The Permittee shall comply with 40 CFR 60, Subpart A-“General Provisions” and Subpart III-“Standards of Performance for Stationary Compression Ignition Internal Combustion Engines” for the operation of the engine powering the wood chipping unit (Source Code: WC03).  
[40 CFR 60, Subparts A and III, and 391-3-1-.02(2)(g)2 subsumed]
- 3.3.2 Upon completion of the biomass conversion, the Permittee shall comply with all applicable provisions of the “New Source Performance Standards” as found in 40 CFR 60, Subpart A-“General Provisions” and Subpart Db-“Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units” for the operation of Steam Generating Unit (Source Code: SG03).  
[40 CFR 60, Subparts A and Db]
- 3.3.3 Upon completion of the biomass conversion, the Permittee shall not discharge or cause the discharge into the atmosphere from Steam Generating Unit (Source Code: SG03) emissions that:  
[40 CFR 60.43b(f), 40 CFR 60.43b(h)(4), and 391-3-1-.02(2)(d) subsumed]
- a. Contain particulate matter in excess of 0.085 pounds per million BTU heat input. This particulate matter standard shall apply at all times except during periods of startup, shutdown, and malfunction.  
[Subsumed by BACT Condition No. 3.3.10]
  - 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 during periods of startup, shutdown, and malfunction.
- 3.3.4 Approval to construct the biomass conversion shall become invalid if construction is not commenced within 18 months (June 3, 2012) after receipt of such approval, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time. For purposes of this Permit, the biomass conversion is defined as the project permitted with PSD Permit Amendment No. 4911-095-0002-V-02-3 issued December 3, 2010 to convert unit SG03 from a coal-fired unit to a biomass-fired unit.

The Division may extend the 18-month period upon a satisfactory showing that an extension is justified. This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date. For purposes of this Permit, the definition of “commence” is given in 40 CFR 52.21(b)(9).  
[40 CFR 52.21(r)(2), 391-3-1-.03(2)(c)]

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- 3.3.5 Upon completion of the biomass conversion, for the purposes of this Permit: The following operating loads are defined for the Steam Generating Unit (Source Code: SG03):  
[40 CFR 52.21(j)]
- a. Minimum Operational Load: Source SG03 operating at 65 megawatts (MW) gross.
  - b. Startup and Shutdown Load: Source SG03 operating at any load less than 65 megawatts (MW) gross. Startup load shall last no longer than 17 hours from initial firing, with a once a year exception of startup load lasting no longer than 24 hours during boil out of the superheater, until the unit reaches minimum operational load.
- 3.3.6 Upon completion of the biomass conversion, the Permittee shall not operate the Steam Generating Unit (Source Code: SG03) at a load lower than the minimum operational load as defined in Permit Condition No. 3.3.5 for more than two consecutive hours, except during startup, shutdown, and malfunction.  
[40 CFR 52.21(j)]
- 3.3.7 Upon completion of the biomass conversion, for unpaved roadway sources associated with wood chipping operations, the Permittee shall not exceed a work day of more than 12 hours per day.  
[40 CFR 52.21(j)]
- 3.3.8 Upon completion of the biomass conversion, the Permittee shall not cause, let, suffer, permit or allow the emission of volatile organic compounds (VOCs) from the Steam Generating Unit (Source Code: SG03) in amounts equal to or exceeding 0.05 pounds per million Btu (lbs/10<sup>6</sup> Btu). The emission limit in this permit condition shall apply during all times of operation, including startup, shutdown, and malfunction.  
[40 CFR 52.21(j)]
- 3.3.9 Upon completion of the biomass conversion, the Permittee shall not cause, let, suffer, permit or allow the emission of carbon monoxide (CO) from the Steam Generating Unit (Source Code: SG03) in amounts equal to or exceeding 0.45 pounds per million Btu (lbs/10<sup>6</sup> Btu), for a 30 operating day rolling average. The emission limit of this permit condition shall apply during all times of operation, including startup, shutdown, and malfunction.  
[40 CFR 52.21(j)]
- 3.3.10 Upon completion of the biomass conversion, the Permittee shall not cause, let, suffer, permit or allow the emission of total particulate matter less than 10 micrometers in diameter (PM<sub>10</sub>) from the Steam Generating Unit (Source Code: SG03) in amounts equal to or exceeding 0.04 pounds per million Btu (lbs/10<sup>6</sup>Btu).  
[40 CFR 52.21; 40 CFR 60.43b(h)(1) subsumed and 391-3-1-.02(2)(d) subsumed]

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- 3.3.11 To comply with Permit Condition No. 3.4.9, the Permittee must implement the following for the Biomass Handling System (Source Code: BHS):  
[40 CFR 52.21(j)]
- a. Water flushing on new paved roadways during biomass delivery
  - b. Partial enclosures (three-quarter hoop covers) on conveyors and transfer points
  - c. Lower vehicle travel speeds on unpaved/new paved roadways
  - d. Water sprays on unpaved roadways for potential wood chipper operation

The Permittee shall implement work practices listed in a. through d. of this permit condition as needed when vehicle traffic is occurring on the affected roadways on the plant site.

- 3.3.12 The Permittee shall not fire any other fuel other than ultra low sulfur diesel in the wood chipping unit (Source Code: WC03). The diesel fuel must meet the requirements of 40 CFR 80.510(b) for nonroad diesel fuel.  
[40 CFR 52.21(j) and 40 CFR 60.4207(b)]
- 3.3.13 The Permittee shall not operate the wood chipping unit (Source Code: WC03) more than 3000 hours during any 12 consecutive month period.  
[40 CFR 52.21(j)]
- 3.3.14 Effective upon startup of the wood chipping unit (Source Code: WC03), the Permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as found in 40 CFR 63, in Subpart A – “General Provisions,” and Subpart ZZZZ – “National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” for the operation of the wood chipping unit (Source Code: WC03).  
[40 CFR 63, Subparts A and ZZZZ]
- 3.3.15 The Permittee shall reduce carbon monoxide (CO) emissions from the wood chipping unit (Source Code: WC03) by 70 percent or more or limit the concentration of formaldehyde in the stationary exhaust of the wood chipping unit to 580 parts per billion by volume on a dry basis (ppbvd) or less corrected to 15% oxygen. Emission limitations apply at all times, except during periods of startup, shutdown, and malfunction.  
[40 CFR 63.6600(b), Table 2a of 40 CFR 63 Subpart ZZZZ]
- 3.3.16 The Permittee shall comply with any operating limitations for the wood chipping unit (Source Code: WC03) approved by the Division.  
[Table 2b of 40 CFR 63 Subpart ZZZZ]
- 3.3.17 The Permittee shall minimize time spent at idle for the wood chipping unit (Source Code: WC03) during startup and minimize the generator’s startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.  
[40 CFR 63.6625(h)]

### 3.4 Equipment SIP Rule Standards

- 3.4.1 The Permittee shall not discharge or cause the discharge into the atmosphere from the Steam Generating Unit (Source Code: SG03), any gases which contain particulate matter in amounts equal to or exceeding the allowable rate calculated as follows:

[391-3-1-.02(2)(d)1(ii)]

$$P = 0.7(10/R)^{0.202}$$

Where:

P = allowable weight of emissions of fly ash and/or other particulate matter in pounds per million BTU heat input

R = heat input of fuel-burning equipment in million BTU per hour.

- 3.4.2 The Permittee shall not discharge or cause the discharge into the atmosphere from the Steam Generating Unit (Source Code: SG03) or from any Combustion Turbine (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8) any gases which exhibit opacity equal to or greater than forty (40) percent.

[391-3-1-.02(2)(b)]

- 3.4.3 The Permittee shall not fire any fuel in the Steam Generating Unit (Source Code: SG03) or in any Combustion Turbine (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8) that contains greater than 3.0 percent sulfur, by weight.

[391-3-1-.02(2)(g)2]

- 3.4.4 The Permittee shall take all reasonable precautions with the coal handling system (Source Code: CHS) and the ash handling system (Source Code: AHS) to prevent fugitive dust from these operations from becoming airborne.

[391-3-1-.02(2)(n)1]

- 3.4.5 The percent opacity from the coal handling system (Source Code: CHS) and the ash handling system (Source Code: AHS) shall not equal or exceed 20 percent.

[391-3-1-.02(2)(n)2]

- 3.4.6 Upon completion of the biomass conversion, the Permittee shall not cause, let, suffer, permit or allow emissions of nitrogen oxides (NOx) from the Steam Generating Unit (Source Code: SG03) in amounts equal to or exceeding 0.3 pounds of nitrogen oxides per million BTU of heat input derived from liquid fossil fuel on a three hour average.

[391-3-1-.02(2)(d)4(ii)]

- 3.4.7 Upon completion of the biomass conversion, the Permittee shall take all reasonable precautions with the biomass handling system (Source Code: BHS), the ash handling system (Source Code: AHS), and the wood chipping unit (Source Code: WC03) to prevent fugitive dust from these operations from becoming airborne.

[391-3-1-.02(2)(n)1]

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- 3.4.8 Upon completion of the biomass conversion, the percent opacity from the biomass handling system (Source Code: BHS), the ash handling system (Source Code: AHS), and the wood chipping unit (Source Code: WC03) shall not equal or exceed 20%.  
[391-3-1-.02(2)(n)2]

### **3.5 Equipment Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit**

None Applicable.

**PART 4.0 REQUIREMENTS FOR TESTING****4.1 General Testing Requirements**

- 4.1.1 The Permittee shall cause to be conducted a performance test at any specified emission unit when so directed by the Environmental Protection Division (“Division”). The test results shall be submitted to the Division within 60 days of the completion of the testing. Any tests shall be performed and conducted using methods and procedures that have been previously specified or approved by the Division.  
[391-3-1-.02(6)(b)1(i)]
- 4.1.2 The Permittee shall provide the Division thirty (30) days (or sixty (60) days for tests required by 40 CFR Part 63) prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test.  
[391-3-1-.02(3)(a) and 40 CFR 63.7(b)(1)]
- 4.1.3 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 Sections 3.2, 3.3, 3.4 and 3.5 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 3A or 3B for the determination of the emission rate correction factor or excess air.
  - e. Method 4 for the determination of stack gas moisture.
  - f. Method 5 or Method 17 for the purposes of determining Particulate Matter emissions and for the purposes of determining compliance with Condition No. 3.3.3a.
  - 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 shall be used for the determination of Opacity. Data from the COMS required by Condition No. 5.2.1 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 for the determination of Carbon Monoxide emissions.

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- 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 25A for the determination of concentrations of volatile organic compounds. The concentration of formaldehyde measured using Method 320 shall be added to the VOC concentration. The Permittee may use Method 18 for determining methane and ethane concentrations to subtract from the results of Method 25A.
- m. Method 5 in conjunction with Method 202 for the determination of Total Particulate Matter.
- n. Method 201A in conjunction with Method 202 for the determination of PM<sub>10</sub> for purposes of determining compliance with Condition No. 3.3.10.
- o. Compliance with the CO limit in Condition No. 3.3.9 shall be determined using the CEMS required by Condition No. 5.2.1b.
- p. Compliance with the NO<sub>x</sub> limit in Condition No. 3.4.6 shall be determined using the CEMS required by Condition No. 5.2.1c.

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)]

#### 4.1.4 **State Only Enforceable Condition.**

The Permittee shall provide, with the notification required under Condition 4.1.2, a test plan in accordance with Division guidelines.

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

- 4.1.5 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 required monitoring system and/or monitoring device data acquired during the performance testing shall be submitted with the performance test results.

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

## 4.2 Specific Testing Requirements

- 4.2.1 The Permittee shall conduct the following performance tests on the following emissions unit at the frequency specified:  
[391-3-1-.02(6)(b)1(i)]
- a. For particulate matter on Steam Generating Unit 3 (Source Code: SG03). The test shall be conducted annually at approximately twelve month intervals not to exceed thirteen months between tests. The Permittee may, if test results from the previous annual tests are fifty percent or less of the limitation in Condition 3.4.1, request that testing be deferred for a period no greater than twelve months from the required annual test date. Such request shall be in written form at least thirty days prior to the scheduled test.  
[391-3-1-.02(6)(b)1(i)]
  - b. Within 60 days after achieving maximum operating rate, but no more than 180 days after initial startup of the biomass conversion, the Permittee shall conduct performance tests for total particulate matter less than 10 micrometers in diameter (PM<sub>10</sub>) on Steam Generating Unit 3 (Source Code: SG03). The test shall be conducted annually at approximately twelve-month intervals not to exceed thirteen months between tests. The Permittee may, if test results from the previous annual tests are fifty percent or less of the limitation in Condition No. 3.3.10, request that testing be deferred for a period no greater than twelve months from the required annual test date. Such request shall be in written form at least thirty days prior to the scheduled test.  
[391-3-1-.02(3) and 391-3-1-.03(2)(c)]
  - c. Within 60 days after achieving maximum operating rate, but no more than 180 days after initial startup of the biomass conversion, the Permittee shall conduct initial performance tests for particulate matter and opacity as required by 40 CFR 60.46b(d) to show compliance with Condition No. 3.3.3. The sampling time for each run shall be at least 120 minutes and the minimum sampling volume shall be 60 dry standard cubic feet (dscf). The temperature of the sample gas in the probe and filter holder shall be monitored and maintained at  $320 \pm 25$  °F.  
[40 CFR 60.46b(d)]
- 4.2.2 The Permittee shall collect data on the monitoring parameters required by Condition No. 5.2.10 at least every 15 minutes during the entire performance test required by Condition No. 4.2.1b. and c. to establish representative secondary voltage and secondary amperage values that demonstrate a reasonable assurance of compliance with Condition No. 3.3.3 and Condition No. 3.3.10. The Permittee then calculates the average total secondary electric power value from these parameters for each test run. The lowest average total secondary electric power measured during the three test runs establishes the site-specific minimum operating limit for the ESP.  
[391-3-1-.02(6)(b)1(i) and 391-3-1-.03(2)(c)]

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4.2.3 Within 180 days after initial startup of the biomass conversion , the Permittee shall conduct a performance evaluation using the continuous emissions monitoring (CEMS) for monitoring CO required by Condition No. 5.2.1b. For the initial compliance evaluation, CO from the steam generating unit is monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance with the CO emission limit in Condition 3.3.9. The Permittee must measure the oxygen concentration in the flue gas during the initial CO performance test.  
[391-3-1-.02(6)(b)1(i) and 391-3-1-.03(2)(c)]

4.2.4 Within 60 days after achieving maximum production rate, but no more than 180 days after initial startup of the biomass conversion, the Permittee shall conduct performance tests for volatile organic compounds (VOC) on Steam Generating Unit 3 (Source Code: SG03). The test shall be conducted annually at approximately twelve month intervals not to exceed thirteen months between tests. The Permittee may, if test results from the previous annual tests are fifty percent or less of the limitation in Condition No. 3.3.8, request that testing be deferred for a period no greater than twelve months from the required annual test date. Such request shall be in written form at least thirty days prior to the scheduled test.  
[391-3-1-.02(6)(b)1(i) and 391-3-1-.03(2)(c)]

4.2.5 The Permittee shall conduct initial performance test or other initial compliance demonstrations in Table 5 of 40 CFR 63, Subpart ZZZZ that apply within 180 days after the compliance date for the wood chipping unit (Source Code: WC03). The compliance date is upon startup of the wood chipping unit (Source Code: WC03).

Each performance test must be conducted according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions that 40 CFR 63, Subpart ZZZZ specifies in Table 5. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load. The Permittee may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1), and must conduct three separate test runs for each performance test required, as specified in 40 CFR 63.7(e)(3). Each test run must last at least 1 hour.  
[40 CFR 63.6600(b), 40 CFR 63.6620 and 40 CFR 63.6595(a)(3)]

4.2.6 The Permittee shall conduct subsequent performance tests as specified in Table 3 (item 1 – semiannually) and Table 5 of 40 CFR 63, Subpart ZZZZ for the wood chipping unit (Source Code: WC03).

Each performance test must be conducted according to the requirements in 40 CFR 63.7(e)(1) and under the specific conditions that 40 CFR 63, Subpart ZZZZ specifies in Table 5. The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load. The Permittee may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in 40 CFR 63.7(e)(1), and must conduct three separate test runs for each performance test required, as specified in 40 CFR 63.7(e)(3). Each test run must last at least 1 hour.  
[40 CFR 63.6615 and 40 CFR 66.6620]

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- 4.2.7 The engine percent load for the wood chipping unit (Source Code: WC03) during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.  
[40 CFR 63.6620(i)]

**PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)****5.1 General Monitoring Requirements**

- 5.1.1 Any continuous monitoring system required by the Division and installed by the Permittee shall be in continuous operation and data recorded during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Monitoring system response, relating only to calibration checks and zero and span adjustments, shall be measured and recorded during such periods. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.  
[391-3-1-.02(6)(b)1]

**5.2 Specific Monitoring Requirements**

- 5.2.1 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 and 40 CFR 70.6(a)(3)(i)]
- a. A Continuous Opacity Monitoring System (COMS), for the measurement of opacity on Steam Generating Unit 3 (Source Code: SG03).
  - b. Within 60 days of achieving maximum production or within 180 days following initial startup of the biomass conversion, a Continuous Emissions Monitoring System (CEMS) for the measurement of carbon monoxide (CO) emissions from the Steam Generating Unit (Source Code: SG03). The CO emission rate shall be recorded in pounds per million Btu heat input.
  - c. Within 60 days of achieving maximum production or within 180 days following initial startup of the biomass conversion, a Continuous Emissions Monitoring System (CEMS) for the measurement of nitrogen oxide (NO<sub>x</sub>) emissions from the Steam Generating Unit (Source Code: SG03). The NO<sub>x</sub> emission rate shall be recorded in pounds per million Btu heat input.
- 5.2.2 For each day or portion of a day that coal is burned in Steam Generating Unit 3 (Source Code: SG03), the Permittee shall obtain a sample of as-bunkered coal for analysis for sulfur content (%S), moisture content and Gross Caloric Value (GCV). The sample shall be acquired and analyzed using the procedures of Section 12.5.2.1 in Method 19 of the Division's **Procedures for Testing and Monitoring Sources of Air Pollutants**, or acquired using ASTM Method D2234 and/or D7430, prepared using ASTM Method D2013, and analyzed using ASTM Methods D4239 for determining sulfur, D5865 for determining GCV, and D7582 and/or D3173 for determining moisture content of the coal sample in lieu of the methods specified in Method 19.  
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]

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**5.2.3 State Only Enforceable Condition.**

The Permittee shall, upon written request by the Division, analyze any used oil to be burned in Steam Generating Unit 3 (Source Code: SG03). The sample(s) shall be obtained and analyzed using the following methods:

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

- a. The procedures described in U.S. Environmental Protection Agency document EPA-600/2-80-018 (Samplers and Sampling Procedures for Hazardous Waste Streams) shall be used to obtain the sample.
- b. Method 6010B, contained in the SW-846 methods manual of U.S. Environmental Protection Agency's Office of Solid Waste, shall be used to determine concentrations of arsenic, cadmium, chromium, and lead.
- c. SW-846 Method 9077c or SW-846 Method 5050 and 9056 in combination shall be used to determine total halogens.
- d. ASTM D93 shall be used to determine flash point.
- e. Polychlorinated Biphenyls (PCB) shall be determined using the test method described in U.S. Environmental Protection Agency Document EPA-600/4-81-045 (The Determination of Polychlorinated Biphenyls in Transformer Fluid and Waste Oil).

**5.2.4** The following pollutant specific emission unit(s) (PSEU) is/are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

| <b>Emission Unit</b> | <b>Pollutant</b> |
|----------------------|------------------|
| SG03                 | PM               |

Permit conditions in this permit for the PSEU(s) listed above with regulatory citation 40 CFR 70.6(a)(3)(i) are included for the purpose of complying with 40 CFR 64. In addition, the Permittee shall meet the requirements, as applicable, of 40 CFR 64.7, 64.8, and 64.9. [40 CFR 64]

**5.2.5** The Permittee shall comply with the performance criteria listed in the table below for the particulate matter emissions from steam generating unit SG03.

[40 CFR 64.6(c)(1)(iii)]

| <b>Performance Criteria<br/>[64.4(a)(3)]</b> | <b>Indicator No. 1<br/>Opacity from SG03 exhaust</b>  |
|--|---|
| A. Data Representativeness<br>[64.3(b)(1)]   | The continuous opacity monitoring system (COMS) is located in SG03 exhaust. The COMS was installed at a representative location in the stack per 40 CFR 60, Appendix B, PS-1. |

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| Performance Criteria<br>[64.4(a)(3)]  | Indicator No. 1<br>Opacity from SG03 exhaust  |
|---|---|
| B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)] | Not Applicable.   |
| C. QA/QC Practices and Criteria [64.3(b)(3)]  | The COMS was initially installed and evaluated per PS-1. Zero and span drift are checked daily and quarterly filter audit is performed. |
| D. Monitoring Frequency [64.3(b)(4)]  | The opacity is monitored continuously.  |
| E. Data Collection Procedures [64.3(b)(4)]  | The data acquisition system (DAS) retains all 6-minute opacity data.  |
| F. Averaging Period [64.3(b)(4)]  | The 6-minute opacity data is used to calculate 3-hour block averages.   |

- 5.2.6 The Permittee shall, at all times, maintain the monitoring required by Condition 5.2.5, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.  
[40 CFR 64.7(b)]
- 5.2.7 Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the Permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of CAM, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The Permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.  
[40 CFR 64.7(c)]
- 5.2.8 Upon detecting an excursion or exceedance as defined in Condition 6.1.7c.i, the Permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated

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condition, or below the applicable emission limitation or standard, as applicable. Determination of whether the Permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 CFR 64.7(d)(1) and (2)]

- 5.2.9 If the Permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring in Condition 5.2.5 did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the Permittee shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.  
[40 CFR 64.7(e)]
- 5.2.10 Upon completion of the biomass conversion, 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. Data shall be recorded at the indicated frequencies below.  
[391-3-1-.02(6)(b)1]
- a. Secondary voltage from the Dry Electrostatic Precipitator (APCD ID No. EP03).  
Data should be recorded hourly.
  - b. Secondary amperage from the Dry Electrostatic Precipitator (APCD ID No. EP03).  
Data should be recorded hourly.
  - c. Gross electrical output in MW for the Steam Generating Unit (Source Code: SG03).  
Data shall be recorded on a continuous basis.
- 5.2.11 Upon completion of the biomass conversion, 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, assess the quality and accuracy of the data acquired by the carbon monoxide CEMS required by Condition No. 5.2.1b. The following exceptions to Appendix F, Procedure 1 are allowed:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. The cylinder gas audit (CGA) is only required to be conducted in a calendar quarter if the unit 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) which ever is greater. For

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the purpose of this condition an operating quarter is defined as any calendar quarter during which the unit is operated.

- 5.2.12 Upon completion of the biomass conversion, the Permittee shall obtain CO emissions data for at least 75 percent of the operating hours for the Steam Generating Unit 3 turbine during each calendar month that the Steam Generating Unit 3 (Source Code: SG03) is operated. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 5.2.13 The Permittee shall prepare and submit a 40 CFR Part 64 “Compliance Assurance Monitoring” plan for the operation of the Steam Generating Unit 3 (Source Code: SG03) not later than 180 days after initial startup of the biomass conversion. [40 CFR Part 64 and 391-3-1-.02(6)(b)1]
- 5.2.14 The Permittee shall install, calibrate, maintain, and operate a non-resettable hour meter for the wood chipping unit (Source Code: WC03) to track the hours of operation. The Permittee shall maintain documentation that demonstrates the reason the engine was in operation (normal operation, maintenance, or testing). The system shall meet the applicable performance specification(s) of the Division’s monitoring requirements. [391-3-1-.02(6)(b)1]
- 5.2.15 Upon completion of the biomass conversion, the Permittee shall measure and record the amount and type of the biomass fuel received on a daily and monthly basis, as well as calculate the total amount of fuel burned on a daily and monthly basis. [40 CFR 60.49b(d)]
- 5.2.16 Upon completion of the biomass conversion, 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 nitrogen oxide CEMS required by Condition 5.2.1c. 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 NO<sub>x</sub> CEMS during each calendar quarter. The following exceptions to Appendix F, Procedure 1 are allowed: [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. The cylinder gas audit (CGA) is only required to be conducted in a calendar quarter if the turbine 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) which ever is greater. For the purpose of this condition an operating quarter is defined as any calendar quarter during which the turbine is operated.
- 5.2.17 Upon completion of the biomass conversion, the Permittee shall obtain nitrogen oxide emissions data for at least 75 percent of the operating hours for the Steam Generating Unit (Source Code: SG03) during each calendar month that the unit is operated. If this

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minimum data requirement is not met using the NO<sub>x</sub> CEMS required by Condition 5.2.1c, the Permittee may supplement the emissions data with data obtained by conducting sampling using the methods prescribed in Condition 4.1.3. The Permittee shall maintain records, which identify periods during each calendar month for which NO<sub>x</sub> emissions data have not been obtained for 75 percent of the operating hours during the month, including reasons for not obtaining sufficient data and a description of corrective actions taken.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

**PART 6.0 RECORD KEEPING AND REPORTING REQUIREMENTS****6.1 General Record Keeping and Reporting Requirements**

- 6.1.1 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 to the EPA. The records shall be retained for at least five (5) years following the date of entry.

[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)]

- 6.1.2 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 that shall contain the probable cause of the deviation(s), duration of the deviation(s), and any corrective actions or preventive measures taken.

[391-3-1-.02(6)(b)1(iv), 391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]

- 6.1.3 The Permittee shall submit written reports of any failure to meet an applicable emission limitation or standard contained in this permit and/or any failure to comply with or complete a work practice standard or requirement contained in this permit which are not otherwise reported in accordance with Conditions 6.1.4 or 6.1.2. Such failures shall be determined through observation, data from any monitoring protocol, or by any other monitoring which is required by this permit. The reports shall cover each semiannual period ending June 30 and December 31 of each year, shall be postmarked by August 29 and February 28, respectively following each reporting period, and shall contain the probable cause of the failure(s), duration of the failure(s), and any corrective actions or preventive measures taken.

[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(iii)(B)]

- 6.1.4 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 May 30, August 29, November 29, and February 28, respectively respectively following each reporting period. 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 and 40 CFR 70.6(a)(3)(iii)(A)]

- 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.

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- 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.
- f. Certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

6.1.5 Where applicable, the Permittee shall keep the following records:  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(3)(ii)(A)]

- a. The date, place, and time of sampling or measurement;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions as existing at the time of sampling or measurement.

6.1.6 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)]

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition No. 6.1.4, the following excess emissions, exceedances, and excursions shall be reported:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

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- a. Excess emissions: (means for the purpose of this Condition and Condition No. 6.1.4, 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. Upon completion of the biomass conversion, any six-minute period during which the average opacity, as measured by the COMS for Steam Generating Unit 3 (Source Code: SG03) equals or exceeds twenty (20) percent, except for one six-minute period per hour of not more than 27 percent.
- b. Exceedances: (means for the purpose of this Condition and Condition No. 6.1.4, 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 time that the Permittee fires fuel in the steam generating unit (Source Code: SG03) or in any combustion turbine (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8) that contains greater than 3.0 percent sulfur, by weight.
  - ii. Any time that the Permittee fires coal-derived synthetic fuel in the steam generating unit (Source Code: SG03) that does not meet the specifications contained in Condition No. 3.2.1e.
  - iii. Upon completion of the biomass conversion, any time that the Permittee fires No. 2 fuel oil, biodiesel or biodiesel blends that contains greater than 0.5% sulfur in the steam generating unit (Source Code: SG03) and the combustion turbines (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8).
  - iv. Upon completion of the biomass conversion, any time that the Permittee fires biomass fuel in the steam generating unit (Source Code: SG03) that does not meet the specifications contained in Condition No. 3.2.4.
  - v. Upon completion of the biomass conversion, any time the 30-day rolling average for CO, exceeds 0.45 lb/mmBtu from the Steam Generating Unit (Source Code: SG03).
  - vi. Upon completion of the biomass conversion, any 3-hour averaging period that the NO<sub>x</sub> limit, exceeds 0.3 lb/mmBtu of heat input derived from liquid fossil fuel fired in the Steam Generating Unit (Source Code: SG03).
  - vii. Upon completion of the biomass conversion, any 12-consecutive month period when the operating hours for the wood chipping unit (Source Code: WC03) exceeds 3,000 hours.

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- viii. Upon completion of the biomass conversion, any workday when the operating hours for non-paved roadways associated with the wood chipping unit (Source Code: WC03) exceeds 12 hours.
  - ix. Upon completion of the biomass conversion, any time that the Permittee fires fuel oil in the steam generating unit (Source Code: SG03) or the Wood-chipping Unit (Source Code: WC03) that contains greater than 0.0015 percent sulfur, by weight.
- c. Excursions: (means for the purpose of this Condition and Condition No. 6.1.4, 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. For Steam Generating Unit 3 (Source Code: SG03), any three-hour block average during which the arithmetic average opacity, as measured by the COMS, exceeds forty (40) percent. A three-hour block average shall be defined as any one of the eight consecutive three-hour time periods between 12:00 midnight and the following midnight.
  - ii. Upon completion of the biomass conversion, any 3-hour period, except during startup, shutdown, and malfunction, during which the average total secondary power (arithmetic average of three consecutive 1-hour periods), to the electrostatic precipitator (APCD ID No. EP03), as determined according to Condition No. 6.2.10, is less than 70% of the value determined and reported in accordance with Condition No. 4.2.2.
- d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition No. 6.1.4:
- i. Upon completion of the biomass conversion, calculated monthly and consecutive 12-month rolling totals for biomass, ultra low sulfur fuel oil and biodiesel fuel fired for each month of the reporting period.

## 6.2 Specific Record Keeping and Reporting Requirements

### 6.2.1 State Only Enforceable Condition

The Permittee shall retain monthly records of all fuel burned (except c and d below which shall be monitored on an as received basis) in Steam Generating Unit (Source Code: SG03). The records shall be available for inspection or submittal to the Division, upon request, and contain the following:

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

- a. Quantity (tons) of coal burned.
- b. Aggregate total quantity (gallons) of biodiesel, biodiesel blends, distillate oil, No. 2 fuel oil, or very low sulfur oil burned.
- c. Quantity (tons) of sawdust received.

- d. Quantity (tons) of biomass received.
- e. Quantity (gallons) of used oil burned.
- f. Quantity (tons) of coal-derived synthetic fuel received.

**6.2.2 State Only Enforceable Condition**

The Permittee shall maintain records of representative samples of the coal and sawdust burned in the Steam Generating Unit (Source Code: SG03) for five years after the date and year of record. The records shall be available for inspection or submittal to the Division, upon request, and contain the following:

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

- a. Percent ash content of coal.
- b. Heat content (Btu per pound) of sawdust.

**6.2.3 State Only Enforceable Condition**

The Permittee shall retain monthly records of all fuel burned in the combustion turbines (Source Codes: CT3, CT4, CT5, CT6, CT7, and CT8) for five years after the date and year of record. The records shall be available for inspection or submittal to the Division upon request, and contain the following:

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

- a. Aggregate total quantity (gallons) of biodiesel, biodiesel blends, distillate oil, No. 2 fuel oil, or very low sulfur oil burned.
- b. Quantity (million cubic feet) of propane burned.

**6.2.4** For each shipment of No. 2 fuel oil received, the Permittee shall obtain from the supplier of the fuel oil, a statement certifying that the oil complies with the specifications of No. 2 fuel oil contained in ASTM D396 or ASTM D975. As an alternative to the procedure described above, the Permittee may, for each shipment of No. 2 fuel oil received, obtain a sample for analysis of the sulfur content. The procedures of ASTM D4057 shall be used to acquire the sample. Sulfur content shall be determined using the procedures of Test Method ASTM D129, or ASTM D1552 or by some other test method approved by the US EPA and acceptable to the Division.

[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]

**6.2.5** The Permittee shall maintain a record of all actions taken in accordance with Condition 3.4.4 to suppress fugitive dust from the coal handling system (CHS) and the ash handling system (AHS). Such records shall include the date and time of occurrence and a description of the actions taken.

[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]

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- 6.2.6 The Permittee shall obtain from the supplier a statement certifying that each shipment of synthetic fuel to be received complies with the specifications as described in Condition 3.2.1e.  
[391-3-1-.02(6)(b)1(i)]
- 6.2.7 The Permittee may submit via electronic media, any report required by Part 6.0 of this permit provided such format has been approved by the Division.  
[391-3-1-.02(6)(b)1(i)]
- 6.2.8 The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction that result in excess emissions in the operation of the Steam Generating Unit (Source code: SG03) and the wood chipping unit (Source Code: WC03), any malfunction of the air pollution control equipment that results in excess emissions 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.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- 6.2.9 Upon completion of the biomass conversion, the Permittee shall submit a report of the following information for each quarterly period ending March 31, June 30, September 30 and December 31 of each year. The reports shall be postmarked by May 30<sup>th</sup>, August 29<sup>th</sup>, November 29<sup>th</sup>, and February 28th.  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. Company name and address
  - b. Statement by a responsible official with that official's name, title, and signature, certifying the truth, accuracy, and completeness of the content of the report.
  - c. Date of report and beginning and ending dates of the reporting period.
  - d. The total fuel use by the steam generating unit (Source Code: SG03), for each calendar month within the reporting period, including, but not limited to, a description of each fuel and the total fuel usage amount with units of measure.
  - e. A summary of the results of the performance tests and documentation of any operating limits that were reestablished during this test, if applicable.
  - f. A signed statement indicating that Permittee burned only ultra low sulfur distillate fuel oil or biodiesel blend or biomass as defined in Condition No. 3.2.4 in the steam generating unit (Source Code: SG03).
  - g. A signed statement indicating that Permittee burned only ultra low sulfur distillate fuel oil in the wood chipping unit (Source Code: WC03).
  - h. Results of any failed daily CO CEMS drift tests, subsequent passed drift tests and quarterly accuracy assessments under Appendix F, Procedure 1 during the reporting period.

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- i. Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- j. Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
- k. Identification of “F” factor used for calculations, method of determination, and type of fuel combusted.
- l. Data shall also be maintained as required by Subpart Db as applicable for the steam generating unit (Source Code: SG03).

6.2.10 Upon completion of the biomass conversion, the Permittee, using the hourly records of total secondary voltage and secondary current for each field of the electrostatic precipitator (APCD ID No. EP03) that are obtained in accordance with Condition No. 5.2.10, shall determine and record total secondary power for each field of the electrostatic precipitator (APCD ID No. EP03) in accordance with the following equation:  
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

$$P_T = \sum_{n=1}^8 V_n * I_n$$

Where:

$P_T$  = Total secondary power to the electrostatic precipitator (APCD ID No. EP03), in Watts

$V_n$  = Total secondary voltage of each field of the electrostatic precipitator  
(APCD ID No. EP03), in kilovolts

$I_n$  = Total secondary current of the secondary field of the electrostatic precipitator  
(APCD ID No. EP03), in milliamps

6.2.11 The Permittee shall provide all applicable notifications as required per 40 CFR 60.7 and 40 CFR 63.9 by the dates specified. Specifically, the Permittee shall provide notifications of the actual date of initial startup of the biomass conversion of the Steam Generating Unit (Source Code: SG03) and the wood chipping unit (Source Code: WC03) postmarked within 15 days after such date.  
[391-3-1-.02(6)(b)(1) and 40 CFR 63.9(b)(4)(v)]

6.2.12 Upon completion of the biomass conversion, the Permittee shall maintain the following records as they relate to the startup and shutdown of the steam generating unit (Source code: SG03):  
[391-3-1-.02(6)(b)(1) and 40 CFR 52.21]

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- a. The hours attributed to the startup, and the hours attributed to shutdown. If the steam generating unit (Source code: SG03) was not in operation on any given day, the records shall so note.
  - b. Identify startup of the pollution control systems – Electrostatic Precipitator (APCD ID No. EP03).
- 6.2.13 Upon completion of the biomass conversion, the Permittee shall determine compliance with the CO emissions limitations in Condition No. 3.3.9 using emissions data acquired by the CO CEMS. The 1-hour average and 30-day rolling average shall be determined as follows: [40 CFR 52.21 and 391-3-1-.02(6)(b)1]
- a. After the first 1-hour average, a new 1-hour average shall be calculated after each operating hour.
  - b. The 30-day average shall be the average of all valid hours of CO emissions data for any 30 successive operating days.
  - c. After the first 30-day average, a new 30-day rolling average shall be calculated after each operating day.
  - d. For the purpose of this Permit, an operating day is a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.

These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.

- 6.2.14 Upon completion of the biomass conversion, the Permittee shall maintain monthly records of the operation of the wood chipping unit (Source code: WC03) that are recorded through the non-resettable hour meter required in Condition No. 5.2.14. Records shall be maintained for a period of five (5) years in a format suitable for inspection by or submission to the Division. [391-3-1-.02(6)(b)(1) and 40 CFR 52.21(g)]
- 6.2.15 Upon completion of the biomass conversion, the Permittee shall use the records required in Condition No. 6.2.14 to determine the total monthly operating hours and the twelve consecutive month total operating hours from the wood chipping unit (Source code: WC03). The Permittee shall notify the Division in writing if the operating hours from the unit exceeds 3000 hours during any 12-consecutive months. These notifications shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the limits in Condition No. 3.3.13. [391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]

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- 6.2.16 Upon completion of the biomass conversion, the Permittee shall retain monthly records of all fuel burned in the Steam Generating Unit (Source Code: SG03). The records shall be available for inspection or submittal to the Division, upon request, and contain the following:  
[391-3-1-.02(6)(b)1(i)]
- a. Quantity (tons) of biomass burned.
  - b. Aggregate quantity (gallons) of fuel oil or biodiesel burned.
- 6.2.17 Upon completion of the biomass conversion, the Permittee shall maintain a record of all actions taken in accordance with Condition No. 3.4.9 to suppress fugitive dust from the biomass handling system (Source Code: BHS), the ash handling system (Source Code: AHS) and the wood chipping unit (Source Code: WC03). Such records shall include the date and time of occurrence and a description of the actions taken.  
[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
- 6.2.18 The Permittee shall demonstrate compliance with the applicable NSPS emission limits for the wood chipping unit (Source Code: WC03) engine by purchasing a certified engine. The engine shall be installed and configured according to manufacturer's specifications. Records shall be maintained for a period of five (5) years in a format suitable for inspection by or submission to the Division.  
[391-3-1-.02(6)(b)1(i)]
- 6.2.19 Upon completion of the biomass conversion, the Permittee shall notify the Division in writing if the workday for unpaved roadways associated with the wood chipping unit (Source code: WC03) exceeds twelve hours per day. These notifications shall be postmarked by the fifteenth day of the following month and shall include an explanation of how the Permittee intends to maintain compliance with the limits in Condition No. 3.3.7.  
[391-3-1-.02(6)(b)1 and 391-3-1-.03(2)(c)]
- 6.2.20 Upon completion of the biomass conversion, the Permittee shall verify that each shipment of biomass, except for forestry residues, received for combustion in the Steam Generating Unit (Source Code: SG03) complies with the requirements of Condition No. 3.2.4. Verification shall consist of fuel receipts obtained from the fuel supplier certifying that the fuel is clean untreated wood. 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 and 391-3-1-.03(2)(c)]
- 6.2.21 The Permittee must submit the initial notification required by 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (f)(6), 40 CFR 63.9(b) through (e), and (g) and (h) no later than 120 days after startup of the wood chipping unit (Source Code: WC03).  
[40 CFR 63.6645(c)]
- 6.2.22 The Permittee must submit all of the notifications required by 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), (f)(4) and (f)(6), 40 CFR 63.9(b) through (e), and (g) and (h) that apply by the dates specified for the wood chipping unit (Source Code: WC03).  
[40 CFR 63.6645(a)]

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- 6.2.23 The Permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii) for the wood chipping unit (Source Code: WC03). For each initial compliance demonstration required in Table 5 of 40 CFR 63, Subpart ZZZZ that includes a performance test conducted according to the requirements in Table 3 of 40 CFR 63, Subpart ZZZZ, the Permittee must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to 40 CFR 63.10(d)(2).  
[40 CFR 63.6645(h)]
- 6.2.24 The Permittee must keep the records described in paragraphs (a)(1) through (a)(5) of 40 CFR 63.6655 for the wood chipping unit (Source Code: WC03). The Permittee must also keep the records required in Table 6 of 40 CFR 63, Subpart ZZZZ to show continuous compliance with each applicable emission or operating limitation.  
[40 CFR 63.6655(a) and 40 CFR 63.6655(d)]
- 6.2.25 The Permittee's records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1) for the wood chipping unit (Source Code: WC03). As specified in 40 CFR 63.10(b)(1), the Permittee shall keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. The Permittee must keep each record readily accessible in hard copy or electronic form on-site for at least 2 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to 40 CFR 63.10(b)(1). The Permittee can keep the records off-site for the remaining 3 years.  
[40 CFR 63.6660]
- 6.2.26 The Permittee shall submit quarterly reports in accordance with Permit Condition 6.1.4, which shall contain all the information, required in paragraphs (c)(1) through (c)(6) of 40 CFR 63.6650 and Table 7 of 40 CFR 63, Subpart ZZZZ for the wood chipping unit (Source Code: WC03). In the event of any deviations from operating parameter and emission limitations, the report shall contain all information required contained in (c)(1) through (c)(4) and (d)(1) and (d)(2) of 40 CFR 63.6650.  
[40 CFR 63.6650(a), 40 CFR 63.6650(b)(5), 40 CFR 63.6650(c), 40 CFR 63.6650(d), 40 CFR 63.6650(f) and Table 7 of 40 CFR 63, Subpart ZZZZ]
- 6.2.27 Upon completion of the biomass conversion, the Permittee shall monitor the fuel quality of each of the fuels combusted in the biomass-fired Steam Generating Unit (Source Code: SG03) by the following methods:  
[391-3-1-.02(6)(b)1]
- a. For each shipment of ultra low sulfur diesel fuel, biodiesel, or biodiesel blends received, the Permittee shall obtain from the supplier a statement certifying that the oil complies with the specifications of ultra low sulfur diesel contained in ASTM D 975 and/or biodiesel contained in ASTM D 6751. As an alternative to the procedure described above the Permittee may, for each shipment of ultra low sulfur diesel fuel, biodiesel, or biodiesel blends received, obtain a sample for analysis of the sulfur content. The procedures of ASTM D 4057 shall be used to acquire the sample. Sulfur content shall be determined using the procedures of Test Method ASTM D 129, ASTM D 1552 or by some other test method approved by the US EPA and acceptable to the Division.

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- b. The Permittee shall obtain and maintain fuel quality certification from biomass suppliers to include sulfur content, ash content, heat content, and moisture content. If such certification cannot be obtained, the Permittee shall conduct initial and periodic fuel sampling and analysis of the uncertified fuel. The samples shall be analyzed using the procedures of Section 12.5.2 in Method 19 of the Division's Procedures for Testing and Monitoring Sources of Air Pollutants. The Permittee may use Test Method ASTM D5142 for determining moisture content of the biomass sample in lieu of the methods specified in Method 19. Such periodic fuel sampling shall be conducted daily as fired or weekly as received at a minimum. Samples shall be analyzed for moisture content, ash content, fuel heat content, and fuel sulfur content.

**PART 7.0 OTHER SPECIFIC REQUIREMENTS**

**7.1 Operational Flexibility**

7.1.1 The Permittee may make Section 502(b)(10) changes as defined in 40 CFR 70.2 without requiring a Permit revision, if the changes are not modifications under any provisions of Title I of the Federal Act and the changes do not exceed the emissions allowable under the Permit (whether expressed therein as a rate of emissions or in terms of total emissions). For each such change, the Permittee shall provide the Division and the EPA with written notification as required below in advance of the proposed changes and shall obtain any Permits required under Rules 391-3-1-.03(1) and (2). The Permittee and the Division shall attach each such notice to their copy of this Permit.

[391-3-1-.03(10)(b)5 and 40 CFR 70.4(b)(12)(i)]

- a. For each such change, the Permittee’s written notification and application for a construction Permit shall be submitted well in advance of any critical date (typically at least 3 months in advance of any commencement of construction, Permit issuance date, etc.) involved in the change, but no less than seven (7) days in advance of such change and shall include a brief description of the change within the Permitted facility, the date on which the change is proposed to occur, any change in emissions, and any Permit term or condition that is no longer applicable as a result of the change.
- b. The Permit shield described in Condition 8.16.1 shall not apply to any change made pursuant to this condition.

**7.2 Off-Permit Changes**

7.2.1 The Permittee may make changes that are not addressed or prohibited by this Permit, other than those described in Condition 7.2.2 below, without a Permit revision, provided the following requirements are met:

[391-3-1-.03(10)(b)6 and 40 CFR 70.4(b)(14)]

- a. Each such change shall meet all applicable requirements and shall not violate any existing Permit term or condition.
- b. The Permittee must provide contemporaneous written notice to the Division and to the EPA of each such change, except for changes that qualify as insignificant under Rule 391-3-1-.03(10)(g). Such written notice shall describe each such change, including the date, any change in emissions, pollutants emitted, and any applicable requirement that would apply as a result of the change.
- c. The change shall not qualify for the Permit shield in Condition 8.16.1.

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- d. The Permittee shall keep a record describing changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the Permit, and the emissions resulting from those changes.

7.2.2 The Permittee shall not make, without a Permit revision, any changes that are not addressed or prohibited by this Permit, if such changes are subject to any requirements under Title IV of the Federal Act or are modifications under any provision of Title I of the Federal Act.  
[Rule 391-3-1-.03(10)(b)7 and 40 CFR 70.4(b)(15)]

### 7.3 Alternative Requirements

[White Paper #2]

Not Applicable.

### 7.4 Insignificant Activities

(see Attachment B for the list of Insignificant Activities in existence at the facility at the time of permit issuance)

### 7.5 Temporary Sources

[391-3-1-.03(10)(d)5 and 40 CFR 70.6(e)]

Not Applicable.

### 7.6 Short-term Activities

(see Form D5 “Short Term Activities” of the Permit application and White Paper #1)

7.6.1 The Permittee shall maintain records of the duration and frequency of the following Short-term Activities:  
[391-3-1-.02(2)(a)1]

- a. Sand blasting for maintenance purposes.
- b. Asbestos removal in accordance with Georgia Rule 391-3-1-.02(9)(b)7.

### 7.7 Compliance Schedule/Progress Reports

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(4)]

None applicable.

### 7.8 Emissions Trading

[391-3-1-.03(10)(d)1(ii) and 40 CFR 70.6(a)(10)]

Not Applicable.

**7.9 Acid Rain Requirements**

Facility ORIS code: 0727

Effective: January 1, 2011 through December 31, 2015

- 7.9.1 Emissions which exceed any allowances that the permittee lawfully holds under Title IV of the 1990 CAAA, or the regulations promulgated thereunder, are expressly prohibited.  
[40 CFR 70.6(a)(4)]
- 7.9.2 Permit revisions are not required for increases in emissions that are authorized by allowances acquired pursuant to the State’s Acid Rain Program, provided that such increases do not require a permit revision under any other applicable requirement.  
[40 CFR 70.6(a)(4)(i)]
- 7.9.3 This permit does not place limits on the number of allowances the permittee may hold. However, the permittee may not use allowances as a defense to noncompliance with any other applicable requirement.  
[40 CFR 70.6(a)(4)(ii)]
- 7.9.4 Any allowances held by the permittee shall be accounted for according to the procedures established in regulations promulgated under Title IV of the 1990 CAAA.  
[40 CFR 70.6(a)(4)(iii)]
- 7.9.5 Each affected unit, with the exceptions specified in 40 CFR 72.9(g)(6), operated in accordance with the Acid Rain portion of this permit shall be deemed to be operating in compliance with the Acid Rain Program.  
[40 CFR 70.6(f)(3)(iii)]
- 7.9.6 Where an applicable requirement is more stringent than an applicable requirement of regulations promulgated under Title IV of the 1990 CAAA, both provisions shall be incorporated into the permit and shall be enforceable.  
[40 CFR 70.6(a)(1)(ii)]

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### 7.9.7 SO<sub>2</sub> Allowance Allocations and NO<sub>x</sub> Requirements for each affected unit [40 CFR 73 (SO<sub>2</sub>) and 40 CFR 76 (NO<sub>x</sub>)]

|  |           |                               | 2011  | 2012 | 2013 | 2014 | 2015 |
|--|-----------|-------------------------------|---|------|------|------|------|
| EMISSION<br>UNIT ID  | EPA<br>ID | SO <sub>2</sub><br>Allowances | 5472  | 5472 | 5472 | 5472 | 5472 |
| SG03   | 3         | NO <sub>x</sub><br>Limit      | <p>The standard annual average NO<sub>x</sub> limit for a Phase I dry bottom wall-fired boiler is 0.45 lb/mmBtu. In lieu of this limit, the Permittee may comply with 40 CFR Part 76 by complying with an approved Phase II NO<sub>x</sub> averaging plan as described below.</p> |      |      |      |      |
| <p>Pursuant to 40 CFR 76.11, Georgia EPD approves five NO<sub>x</sub> emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2011, 2012, 2013, 2014, and 2015. Under each plan, this unit's NO<sub>x</sub> emissions shall not exceed the annual average alternative contemporaneous emission limitation of <b>0.62lb/mmBtu</b>. In addition, this unit shall not have an annual heat input less than <b>6,001,510 mmBtu</b>.</p> <p>Under the plan, the actual Btu-weighted annual average NO<sub>x</sub> emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NO<sub>x</sub> emission rate for the same units had they each been operated, during the same period of time, in compliance with the applicable emission limitations under 40 CFR 76.5, 76.6, or 76.7, except that for any early election units, the applicable emission limitations shall be under 40 CFR 76.7. If the designated representative demonstrates that the requirement of the prior sentence (as set forth in 40 CFR 76.11(d)(1)(ii)(A)) is met for a year under the plan, then this unit shall be deemed to be in compliance for that year with its alternative contemporaneous annual emission limitation and annual heat input limit.</p> <p>In accordance with 40 CFR 72.40(b)(2), approval of the averaging plan shall be final only when the Mississippi Department of Environmental Quality, the Alabama Department of Environmental Management, the Florida Department of Environmental Protection, and the Jefferson County Department of Health (Alabama) have also approved this averaging plan.</p> <p>In addition to the described NO<sub>x</sub> compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO<sub>x</sub> compliance plan and requirements covering excess emissions.</p> |           |                               |   |      |      |      |      |

Note: The number of allowances allocated to Phase II affected units by U.S. EPA may change as a result of revisions to 40 CFR Part 73. In addition, the number of allowances actually held by an affected source in a unit account may differ from the number allocated by U.S. EPA. Neither of the aforementioned conditions necessitate a revision to the unit SO<sub>2</sub> allowance allocations identified in this permit (See CFR 72.84).

- 7.9.8 Permit Application: The Phase II Acid Rain Permit Application Attachment D, Compliance Plan, and NOx Averaging Plan submitted for this source, as corrected by the State of Georgia, is attached as part of this Permit. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application. [40 CFR 72.50(a)(1)]

**7.10 Prevention of Accidental Releases (Section 112(r) of the 1990 CAAA)**

[391-3-1-.02(10)]

- 7.10.1 When and if the requirements of 40 CFR Part 68 become applicable, the Permittee shall comply with all applicable requirements of 40 CFR Part 68, including the following.
- a. The Permittee shall submit a Risk Management Plan (RMP) as provided in 40 CFR 68.150 through 68.185. The RMP shall include a registration that reflects all covered processes.
  - b. For processes eligible for Program 1, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a. and the following additional requirements:
    - i. Analyze the worst-case release scenario for the process(es), as provided in 40 CFR 68.25; document that the nearest public receptor is beyond the distance to a toxic or flammable endpoint defined in 40 CFR 68.22(a); and submit in the RMP the worst-case release scenario as provided in 40 CFR 68.165.
    - ii. Complete the five-year accident history for the process as provided in 40 CFR 68.42 and submit in the RMP as provided in 40 CFR 68.168
    - iii. Ensure that response actions have been coordinated with local emergency planning and response agencies
    - iv. Include a certification in the RMP as specified in 40 CFR 68.12(b)(4)
  - c. For processes subject to Program 2, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
    - i. Develop and implement a management system as provided in 40 CFR 68.15
    - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42
    - iii. Implement the Program 2 prevention steps provided in 40 CFR 68.48 through 68.60 or implement the Program 3 prevention steps provided in 40 CFR 68.65 through 68.87
    - iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95
    - v. Submit as part of the RMP the data on prevention program elements for Program 2 processes as provided in 40 CFR 68.170
  - d. For processes subject to Program 3, as provided in 40 CFR 68.10, the Permittee shall comply with 7.10.1.a., 7.10.1.b. and the following additional requirements:
    - i. Develop and implement a management system as provided in 40 CFR 68.15
    - ii. Conduct a hazard assessment as provided in 40 CFR 68.20 through 68.42
    - iii. Implement the prevention requirements of 40 CFR 68.65 through 68.87

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- iv. Develop and implement an emergency response program as provided in 40 CFR 68.90 through 68.95
  - v. Submit as part of the RMP the data on prevention program elements for Program 3 as provided in 40 CFR 68.175
- e. All reports and notification required by 40 CFR Part 68 must be submitted electronically using RMP\*eSubmit (information for establishing an account can be found at [www.epa.gov/emergencies/content/rmp/rmp\\_esubmit.htm](http://www.epa.gov/emergencies/content/rmp/rmp_esubmit.htm)). Electronic Signature Agreements should be mailed to:

### MAIL

**Risk Management Program (RMP) Reporting Center  
P.O. Box 10162  
Fairfax, VA 22038**

### COURIER & FEDEX

**Risk Management Program (RMP) Reporting Center  
CGI Federal  
12601 Fair Lakes Circle  
Fairfax, VA 22033**

Compliance with all requirements of this condition, including the registration and submission of the RMP, shall be included as part of the compliance certification submitted in accordance with Condition 8.14.1.

## 7.11 Stratospheric Ozone Protection Requirements (Title VI of the CAAA of 1990)

- 7.11.1 If the Permittee performs any of the activities described below or as otherwise defined in 40 CFR Part 82, the Permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
  - b. Equipment used during the maintenance, service, repair, or disposal of appliance must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
  - c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

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- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to 40 CFR 82.166.  
[Note: “MVAC-like appliance” is defined in 40 CFR 82.152.]
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR 82.166.

7.11.2 If the Permittee performs a service on motor (fleet) vehicles and if this service involves an ozone-depleting substance (refrigerant) in the MVAC, the Permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners.

The term “motor vehicle” as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term “MVAC” as used in Subpart B does not include air-tight sealed refrigeration systems used for refrigerated cargo, or air conditioning systems on passenger buses using HCFC-22 refrigerant.

### 7.12 Revocation of Existing Permits and Amendments

The following Air Quality Permits, Amendments, and 502(b)10 are subsumed by this permit and are hereby revoked:

| Air Quality Permit and Amendment Number(s) | Dates of Original Permit or Amendment Issuance |
|--|--|
| 4911-095-0002-V-02-0                       | February 14, 2006                              |
| 4911-095-0002-V-02-1                       | October 30, 2008                               |
| 4911-095-0002-V-02-2                       | March 12, 2009                                 |
| 4911-095-0002-V-02-3                       | December 3, 2010                               |
| 4911-095-0002-V-02-4                       | November 16, 2009                              |

### 7.13 Pollution Prevention

None applicable.

### 7.14 Specific Conditions

- 7.14.1 The permit for the biomass conversion shall become null and void if construction of the biomass-fired Steam Generating Unit (Source Code: SG03) is not commenced by June 3, 2012.  
[40 CFR 52.21]
- 7.14.2 Upon completion of this biomass conversion, existing Condition Nos. 3.2.1, 3.2.2, 3.4.1, 3.4.4, 3.4.5, 5.2.2, 5.2.3, 6.2.1, 6.2.2, 6.2.5 and 6.2.6 will no longer be applicable.  
[391-3-1-.03(2)(c)]

**7.15 Clean Air Interstate Rule (CAIR) Requirements**

[40 CFR 96, 391-3-1-.02(12), 391-3-1-.02(13)]

7.15.1 Permit Application: The CAIR Permit Application, as corrected by the State of Georgia, is attached as part of this Permit. The owners and operators of these CAIR units as identified in Condition 7.15.2 must comply with the standard requirements and special provisions set forth in the application.

[40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322]

7.15.2 The owners and operators of the source shall comply with the Annual NO<sub>x</sub> Allowance Allocations in accordance with the CAIR requirements as follows:

[40 CFR 96, 391-3-1-.02(12)]

|               | Emission Unit ID. | EPA ID. |  | 2011 |
|---------------|-------------------|---------|--|------|
| Facility Wide | SG03              | 3       | CAIR Facility Wide Annual NO <sub>x</sub> Allowances (tpy) | 485  |
|               | CT3               | 4AA     |  |      |
|               | CT4               | 4AB     |  |      |
|               | CT5               | 4BA     |  |      |
|               | CT6               | 4BB     |  |      |
|               | CT7               | 4CA     |  |      |
|               | CT8               | 4CB     |  |      |

**PART 8.0 GENERAL PROVISIONS****8.1 Terms and References**

- 8.1.1 Terms not otherwise defined in the Permit shall have the meaning assigned to such terms in the referenced regulation.
- 8.1.2 Where more than one condition in this Permit applies to an emission unit and/or the entire facility, each condition shall apply and the most stringent condition shall take precedence.  
[391-3-1-.02(2)(a)2]

**8.2 EPA Authorities**

- 8.2.1 Except as identified as “State-only enforceable” requirements in this Permit, all terms and conditions contained herein shall be enforceable by the EPA and citizens under the Clean Air Act, as amended, 42 U.S.C. 7401, et seq.  
[40 CFR 70.6(b)(1)]
- 8.2.2 Nothing in this Permit shall alter or affect the authority of the EPA to obtain information pursuant to 42 U.S.C. 7414, “Inspections, Monitoring, and Entry.”  
[40 CFR 70.6(f)(3)(iv)]
- 8.2.3 Nothing in this Permit shall alter or affect the authority of the EPA to impose emergency orders pursuant to 42 U.S.C. 7603, “Emergency Powers.”  
[40 CFR 70.6(f)(3)(i)]

**8.3 Duty to Comply**

- 8.3.1 The Permittee shall comply with all conditions of this operating Permit. Any Permit noncompliance constitutes a violation of the Federal Clean Air Act and the Georgia Air Quality Act and/or State rules and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application. Any noncompliance with a Permit condition specifically designated as enforceable only by the State constitutes a violation of the Georgia Air Quality Act and/or State rules only and is grounds for enforcement action; for Permit termination, revocation and reissuance, or modification; or for denial of a Permit renewal application.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(i)]
- 8.3.2 The Permittee shall not use as a defense in an enforcement action the contention that it would have been necessary to halt or reduce the Permitted activity in order to maintain compliance with the conditions of this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(ii)]
- 8.3.3 Nothing in this Permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of Permit issuance.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(f)(3)(ii)]

- 8.3.4 Issuance of this Permit does not relieve the Permittee from the responsibility of obtaining any other permits, licenses, or approvals required by the Director or any other federal, state, or local agency.  
[391-3-1-.03(10)(e)1(iv) and 40 CFR 70.7(a)(6)]

#### **8.4 Fee Assessment and Payment**

- 8.4.1 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of fee shall be determined each year in accordance with the “Procedures for Calculating Air Permit Fees.”  
[391-3-1-.03(9)]

#### **8.5 Permit Renewal and Expiration**

- 8.5.1 This Permit shall remain in effect for five (5) years from the effective date. The Permit shall become null and void after the expiration date unless a timely and complete renewal application has been submitted to the Division at least six (6) months, but no more than eighteen (18) months prior to the expiration date of the Permit.  
[391-3-1-.03(10)(d)1(i), (e)2, and (e)3(ii) and 40 CFR 70.5(a)(1)(iii)]
- 8.5.2 Permits being renewed are subject to the same procedural requirements, including those for public participation and affected State and EPA review, that apply to initial Permit issuance.  
[391-3-1-.03(10)(e)3(i)]
- 8.5.3 Notwithstanding the provisions in 8.5.1 above, if the Division has received a timely and complete application for renewal, deemed it administratively complete, and failed to reissue the Permit for reasons other than cause, authorization to operate shall continue beyond the expiration date to the point of Permit modification, reissuance, or revocation.  
[391-3-1-.03(10)(e)3(iii)]

#### **8.6 Transfer of Ownership or Operation**

- 8.6.1 This Permit is not transferable by the Permittee. Future owners and operators shall obtain a new Permit from the Director. The new Permit may be processed as an administrative amendment if no other change in this Permit is necessary, and provided that a written agreement containing a specific date for transfer of Permit responsibility coverage and liability between the current and new Permittee has been submitted to the Division at least thirty (30) days in advance of the transfer.  
[391-3-1-.03(4)]

**8.7 Property Rights**

- 8.7.1 This Permit shall not convey property rights of any sort, or any exclusive privileges. [391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iv)]

**8.8 Submissions**

- 8.8.1 Reports, test data, monitoring data, notifications, annual certifications, and requests for revision and renewal shall be submitted to:

**Georgia Department of Natural Resources  
Environmental Protection Division  
Air Protection Branch  
Atlanta Tradeport, Suite 120  
4244 International Parkway  
Atlanta, Georgia 30354-3908**

- 8.8.2 Any records, compliance certifications, and monitoring data required by the provisions in this Permit to be submitted to the EPA shall be sent to:

**Air and EPCRA Enforcement Branch – U. S. EPA Region 4  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW  
Atlanta, Georgia 30303-3104**

- 8.8.3 Any application form, report, or compliance certification submitted pursuant to this Permit shall contain a certification by a responsible official of its truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. [391-3-1-.03(10)(c)2, 40 CFR 70.5(d) and 40 CFR 70.6(c)(1)]
- 8.8.4 Unless otherwise specified, all submissions under this permit shall be submitted to the Division only.

**8.9 Duty to Provide Information**

- 8.9.1 The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the Permit application, shall promptly submit such supplementary facts or corrected information to the Division. [391-3-1-.03(10)(c)5]

- 8.9.2 The Permittee shall furnish to the Division, in writing, information that the Division may request to determine whether cause exists for modifying, revoking and reissuing, or terminating the Permit, or to determine compliance with the Permit. Upon request, the Permittee shall also furnish to the Division copies of records that the Permittee is required to keep by this Permit or, for information claimed to be confidential, the Permittee may furnish such records directly to the EPA, if necessary, along with a claim of confidentiality. [391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(v)]

## **8.10 Modifications**

- 8.10.1 Prior to any source commencing a modification as defined in 391-3-1-.01(pp) that may result in air pollution and not exempted by 391-3-1-.03(6), the Permittee shall submit a Permit application to the Division. The 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. Such application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity of the plant before and after the change, and the anticipated completion date of the change. The application shall be in the form of a Georgia air quality Permit application to construct or modify (otherwise known as a SIP application) and shall be submitted on forms supplied by the Division, unless otherwise notified by the Division. [391-3-1-.03(1) through (8)]

## **8.11 Permit Revision, Revocation, Reopening and Termination**

- 8.11.1 This Permit may be revised, revoked, reopened and reissued, or terminated for cause by the Director. The Permit will be reopened for cause and revised accordingly under the following circumstances: [391-3-1-.03(10)(d)1(i)]
- a. If additional applicable requirements become applicable to the source and the remaining Permit term is one (1) year or longer. In this case, the reopening shall be completed no later than eighteen (18) months after promulgation of the applicable requirement. A reopening shall not be required if compliance with the applicable requirement is not required until after the date on which the Permit is due to expire; [391-3-1-.03(10)(e)6(i)(I)]
  - b. If any additional applicable requirements of the Acid Rain Program become applicable to the source; [391-3-1-.03(10)(e)6(i)(II)] (Acid Rain sources only)
  - c. The Director determines that the Permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Permit; or [391-3-1-.03(10)(e)6(i)(III) and 40 CFR 70.7(f)(1)(iii)]

- d. The Director determines that the Permit must be revised or revoked to assure compliance with the applicable requirements.  
[391-3-1-.03(10)(e)6(i)(IV) and 40 CFR 70.7(f)(1)(iv)]
  
- 8.11.2 Proceedings to reopen and reissue a Permit shall follow the same procedures as applicable to initial Permit issuance and shall affect only those parts of the Permit for which cause to reopen exists. Reopenings shall be made as expeditiously as practicable.  
[391-3-1-.03(10)(e)6(ii)]
  
- 8.11.3 Reopenings shall not be initiated before a notice of intent to reopen is provided to the source by the Director at least thirty (30) days in advance of the date the Permit is to be reopened, except that the Director may provide a shorter time period in the case of an emergency.  
[391-3-1-.03(10)(e)6(iii)]
  
- 8.11.4 All Permit conditions remain in effect until such time as the Director takes final action. The filing of a request by the Permittee for any Permit revision, revocation, reissuance, or termination, or of a notification of planned changes or anticipated noncompliance, shall not stay any Permit condition.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(6)(iii)]
  
- 8.11.5 **State Only Enforceable Condition**  
At any time that the Director 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.  
[391-3-1-.02(2)(a)3]
  
- 8.11.6 A Permit revision shall not be required for changes that are explicitly authorized by the conditions of this Permit.
  
- 8.11.7 A Permit revision shall not be required for changes that are part of an approved economic incentive, marketable Permit, emission trading, or other similar program or process for change which is specifically provided for in this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(8)]

**8.12 Severability**

- 8.12.1 Any condition or portion of this Permit which is challenged, becomes suspended or is ruled invalid as a result of any legal or other action shall not invalidate any other portion or condition of this Permit.  
[391-3-1-.03(10)(d)1(i) and 40 CFR 70.6(a)(5)]

**8.13 Excess Emissions Due to an Emergency**

- 8.13.1 An “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the Permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(1)]
- 8.13.2 An emergency shall constitute an affirmative defense to an action brought for noncompliance with the technology-based emission limitations if the Permittee demonstrates, through properly signed contemporaneous operating logs or other relevant evidence, that:  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(2) and (3)]
- a. An emergency occurred and the Permittee can identify the cause(s) of the emergency;
  - b. The Permitted facility was at the time of the emergency being properly operated;
  - c. During the period of the emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards, or other requirements in the Permit; and
  - d. The Permittee promptly notified the Division and submitted written notice of the emergency to the Division within two (2) working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
- 8.13.3 In an enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency shall have the burden of proof.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(4)]
- 8.13.4 The emergency conditions listed above are in addition to any emergency or upset provisions contained in any applicable requirement.  
[391-3-1-.03(10)(d)7 and 40 CFR 70.6(g)(5)]

## 8.14 Compliance Requirements

### 8.14.1 Compliance Certification

The Permittee shall provide written certification to the Division and to the EPA, at least annually, of compliance with the conditions of this Permit. The annual written certification shall be postmarked no later than February 28 of each year and shall be submitted to the Division and to the EPA. The certification shall include, but not be limited to, the following elements:

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(5)]

- a. The identification of each term or condition of the Permit that is the basis of the certification;
- b. 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, based on the method or means designated in paragraph c below. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred;
- c. The identification of the method(s) or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period;
- d. Any other information that must be included to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information; and
- e. Any additional requirements specified by the Division.

### 8.14.2 Inspection and Entry

- a. Upon presentation of credentials and other documents as may be required by law, the Permittee shall allow authorized representatives of the Division to perform the following:

[391-3-1-.03(10)(d)3 and 40 CFR 70.6(c)(2)]

- i. Enter upon the Permittee's premises where a Part 70 source is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this Permit;
- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this Permit;
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this Permit; and

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- iv. Sample or monitor any substances or parameters at any location during operating hours for the purpose of assuring Permit compliance or compliance with applicable requirements as authorized by the Georgia Air Quality Act.
- b. No person shall obstruct, hamper, or interfere with any such authorized representative while in the process of carrying out his official duties. Refusal of entry or access may constitute grounds for Permit revocation and assessment of civil penalties.  
[391-3-1-.07 and 40 CFR 70.11(a)(3)(i)]

### 8.14.3 Schedule of Compliance

- a. For applicable requirements with which the Permittee is in compliance, the Permittee shall continue to comply with those requirements.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(A)]
- b. For applicable requirements that become effective during the Permit term, the Permittee shall meet such requirements on a timely basis unless a more detailed schedule is expressly required by the applicable requirement.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(B)]
- c. Any schedule of compliance for applicable requirements with which the source is not in compliance at the time of Permit issuance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based.  
[391-3-1-.03(10)(c)2 and 40 CFR 70.5(c)(8)(iii)(C)]

### 8.14.4 Excess Emissions

- a. Excess emissions resulting from startup, shutdown, or malfunction of any source which occur though ordinary diligence is employed shall be allowed provided that:  
[391-3-1-.02(2)(a)7(i)]
  - i. The best operational practices to minimize emissions are adhered to;
  - ii. All associated air pollution control equipment is operated in a manner consistent with good air pollution control practice for minimizing emissions; and
  - iii. The duration of excess emissions is minimized.
- b. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited and are violations of Chapter 391-3-1 of the Georgia Rules for Air Quality Control.  
[391-3-1-.02(2)(a)7(ii)]
- c. The provisions of this condition and Georgia Rule 391-3-1-.02(2)(a)7 shall apply only to those sources which are not subject to any requirement under Georgia Rule 391-3-

1-.02(8) – New Source Performance Standards or any requirement of 40 CFR, Part 60, as amended concerning New Source Performance Standards.  
[391-3-1-.02(2)(a)7(iii)]

### **8.15 Circumvention**

#### **State Only Enforceable Condition.**

8.15.1 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 which is based on the concentration of the pollutants in the gases discharged into the atmosphere.  
[391-3-1-.03(2)(c)]

### **8.16 Permit Shield**

8.16.1 Compliance with the terms of this Permit shall be deemed compliance with all applicable requirements as of the date of Permit issuance provided that all applicable requirements are included and specifically identified in the Permit.  
[391-3-1-.03(10)(d)6]

8.16.2 Any Permit condition identified as “State only enforceable” does not have a Permit shield.

### **8.17 Operational Practices**

8.17.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate the 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 any information available to the Division that may include, but is not limited to, monitoring results, observations of the opacity or other characteristics of emissions, review of operating and maintenance procedures or records, and inspection or surveillance of the source.  
[391-3-1-.02(2)(a)10]

#### **State Only Enforceable Condition.**

8.17.2 No person owning, leasing, or controlling, the operation of any air contaminant sources shall willfully, negligently or through failure to provide necessary equipment or facilities or to take necessary precautions, cause, permit, or allow the emission from said air contamination source or sources, of such quantities of air contaminants as will cause, or tend to cause, by themselves, or in conjunction with other air contaminants, a condition of air pollution in quantities or characteristics or of a duration which is injurious or which unreasonably interferes with the enjoyment of life or use of property in such Major of the State as is affected thereby. Complying with Georgia’s Rules for Air Quality Control Chapter 391-3-1 and Conditions in this Permit, shall in no way exempt a person from this provision.  
[391-3-1-.02(2)(a)1]

## 8.18 Visible Emissions

- 8.18.1 Except as may be provided in other provisions of this Permit, the Permittee shall not cause, let, suffer, permit or allow emissions from any air contaminant source the opacity of which is equal to or greater than forty (40) percent.  
[391-3-1-.02(2)(b)1]

## 8.19 Fuel-burning Equipment

- 8.19.1 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, in operation or under construction on or before January 1, 1972 in amounts equal to or exceeding 0.7 pounds per million BTU heat input.  
[391-3-1-.02(2)(d)]
- 8.19.2 The Permittee shall not cause, let, suffer, permit, or allow the emission of fly ash and/or other particulate matter from any fuel-burning equipment with rated heat input capacity of less than 10 million Btu per hour, constructed after January 1, 1972 in amounts equal to or exceeding 0.5 pounds per million BTU heat input.  
[391-3-1-.02(2)(d)]
- 8.19.3 The Permittee shall not cause, let, suffer, permit, or allow the emission from any fuel-burning equipment constructed or extensively modified after January 1, 1972, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.  
[391-3-1-.02(2)(d)]

## 8.20 Sulfur Dioxide

- 8.20.1 Except as may be specified in other provisions of this Permit, the Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in any fuel burning source that has a heat input capacity below 100 million Btu's per hour.  
[391-3-1-.02(2)(g)]

## 8.21 Particulate Emissions

- 8.21.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, let, permit, suffer, or allow the rate of emission from any source, particulate matter in total quantities equal to or exceeding the allowable rates shown below. Equipment in operation, or under construction contract, on or before July 2, 1968, shall be considered existing equipment. All other equipment put in operation or extensively altered after said date is to be considered new equipment.  
[391-3-1-.02(2)(e)]
- a. The following equations shall be used to calculate the allowable rates of emission from new equipment:

$$E = 4.1P^{0.67}; \text{ for process input weight rate up to and including 30 tons per hour.}$$

$E = 55P^{0.11} - 40$ ; for process input weight rate above 30 tons per hour.

- b. The following equation shall be used to calculate the allowable rates of emission from existing equipment:

$$E = 4.1P^{0.67}$$

In the above equations, E = emission rate in pounds per hour, and  
P = process input weight rate in tons per hour.

## 8.22 Fugitive Dust

[391-3-1-.02(2)(n)]

8.22.1 Except as may be specified in other provisions of this Permit, the Permittee shall take all reasonable precautions to prevent dust from any operation, process, handling, transportation or storage facility from becoming airborne. Reasonable precautions that could be taken to prevent dust from becoming airborne include, but are not limited to, the following:

- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;
- b. Application of asphalt, water, or suitable chemicals on dirt roads, materials, stockpiles, and other surfaces that can give rise to airborne dusts;
- c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods can be employed during sandblasting or other similar operations;
- d. Covering, at all times when in motion, open bodied trucks transporting materials likely to give rise to airborne dusts; and
- e. The prompt removal of earth or other material from paved streets onto which earth or other material has been deposited.

8.22.2 The opacity from any fugitive dust source shall not equal or exceed 20 percent.

## 8.23 Solvent Metal Cleaning

8.23.1 Except as may be specified in other provisions of this Permit, the Permittee shall not cause, suffer, allow, or permit the operation of a cold cleaner degreaser unless the following requirements for control of emissions of the volatile organic compounds are satisfied:

[391-3-1-.02(2)(ff)1]

- a. The degreaser shall be equipped with a cover to prevent escape of VOC during periods of non-use,
- b. The degreaser shall be equipped with a device to drain cleaned parts before removal from the unit,

- c. If the solvent volatility is 0.60 psi or greater measured at 100 °F, or if the solvent is heated above 120 °F, then one of the following control devices must be used:
  - i. The degreaser shall be equipped with a freeboard that gives a freeboard ratio of 0.7 or greater, or
  - ii. The degreaser shall be equipped with a water cover (solvent must be insoluble in and heavier than water), or
  - iii. The degreaser shall be equipped with a system of equivalent control, including but not limited to, a refrigerated chiller or carbon adsorption system.
- d. Any solvent spray utilized by the degreaser must be in the form of a solid, fluid stream (not a fine, atomized or shower type spray) and at a pressure which will not cause excessive splashing, and
- e. All waste solvent from the degreaser shall be stored in covered containers and shall not be disposed of by such a method as to allow excessive evaporation into the atmosphere.

**8.24 Incinerators**

- 8.24.1 Except as specified in the section dealing with conical burners, no person shall cause, let, suffer, permit, or allow the emissions of fly ash and/or other particulate matter from any incinerator, in amounts equal to or exceeding the following:  
[391-3-1-.02(2)(c)1-4]
  - a. Units with charging rates of 500 pounds per hour or less of combustible waste, including water, shall not emit fly ash and/or particulate matter in quantities exceeding 1.0 pound per hour.
  - b. Units with charging rates in excess of 500 pounds per hour of combustible waste, including water, shall not emit fly ash and/or particulate matter in excess of 0.20 pounds per 100 pounds of charge.
- 8.24.2 No person shall cause, let, suffer, permit, or allow from any incinerator, visible emissions the opacity of which is equal to or greater than twenty (20) percent except for one six minute period per hour of not more than twenty-seven (27) percent opacity.
- 8.24.3 No person shall cause or allow particles to be emitted from an incinerator which are individually large enough to be visible to the unaided eye.

- 8.24.4 No person shall operate an existing incinerator unless:
- a. It is a multiple chamber incinerator;
  - b. It is equipped with an auxiliary burner in the primary chamber for the purpose of creating a pre-ignition temperature of 800°F; and
  - c. It has a secondary burner to control smoke and/or odors and maintain a temperature

**8.25 Volatile Organic Liquid Handling and Storage**

- 8.25.1 The Permittee shall ensure that each storage tank subject to the requirements of Rule 391-3-1-.02(2)(vv) “Volatile Organic Liquid Handling and Storage” is equipped with submerged fill pipes. For the purposes of this condition and the permit, a submerged fill pipe is defined as any fill pipe with a discharge opening which is within six inches of the tank bottom.  
[391-3-1-.02(2)(vv)(1)]

**8.26 Use of Any Credible Evidence or Information**

- 8.26.1 Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit, for the purpose of submission of compliance certifications or establishing whether or not a person has violated or is in violation of any emissions limitation or standard, nothing in this permit or any Emission Limitation or Standard to which it pertains, shall preclude the use, including the exclusive use, of any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed.  
[391-3-1-.02(3)(a)]

**8.27 Diesel-Fired Internal Combustion Engines**

- 8.27.1 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) Federal Rule 40 CFR Part 60 Subpart A-“General Provisions” and Subpart III-“Standards for Stationary Compression Ignition Internal Combustion Engines,” for diesel-fired internal combustion engine(s) manufactured after April 1, 2006 or modified/reconstructed after July 11, 2005. Such requirements include but are not limited to:  
[40 CFR 60.4205(b), 391-3-1-.02(8)(b)77 ]
- a. Equip all emergency generator engines with non-resettable hour meters
  - b. Use only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division.

**Attachments**

- A. List of Standard Abbreviations and List of Permit Specific Abbreviations
- B. Insignificant Activities Checklist, Insignificant Activities Based on Emission Levels and Generic Emission Groups
- C. List of References
- D. Phase II Acid Rain Application
- E. CAIR Permit Application for SO<sub>2</sub> and NO<sub>x</sub> Annual Trading Programs



**Title V Permit**

**ATTACHMENT B**

**NOTE:** Attachment B contains information regarding insignificant emission units/activities and groups of generic emission units/activities in existence at the facility at the time of Permit issuance. Future modifications or additions of insignificant emission units/activities and equipment that are part of generic emissions groups may not necessarily cause this attachment to be updated.

**INSIGNIFICANT ACTIVITIES CHECKLIST**

| <b>Category</b>   | <b>Description of Insignificant Activity/Unit</b>  | <b>Quantity</b> |
|---|--|-----------------|
| <b>Mobile Sources</b>   | 1. Cleaning and sweeping of streets and paved surfaces   | X               |
| <b>Combustion Equipment</b>   | 1. Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.  | X               |
|   | 2. Small incinerators that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act and are not considered a "designated facility" as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows: | -               |
|   | i) Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste.  | -               |
|   | ii) Less than 8 million BTU/hr heat input with no more than 10% pathological (type 4) waste by weight combined with types 0, 1, 2, and/or 3 waste.   | -               |
|   | iii) Less than 4 million BTU/hr heat input firing type 4 waste.<br>(Refer to 391-3-1-.03(10)(g)2.(ii) for descriptions of waste types)   | -               |
|   | 3. Open burning in compliance with Georgia Rule 391-3-1-.02 (5).   | X               |
|   | 4. Stationary engines burning:   |                 |
|   | i) Natural gas, LPG, gasoline, dual fuel, or diesel fuel which are used exclusively as emergency generators shall not exceed 500 hours per year or 200 hours per year if subject to Georgia Rule 391-3-1-.02(2)(mmm).7   | 1               |
|   | ii) Natural gas, LPG, and/or diesel fueled generators used for emergency, peaking, and/or standby power generation, where the combined peaking and standby power generation do not exceed 200 hours per year.  | -               |
|   | iii) Natural gas, LPG, and/or diesel fuel used for other purposes, provided that the output of each engine does not exceed 400 horsepower and that no individual engine operates for more than 2,000 hours per year.   | 1               |
| iv) Gasoline used for other purposes, provided that the output of each engine does not exceed 100 horsepower and that no individual engine operates for more than 500 hours per year. | -  |                 |
| <b>Trade Operations</b>   | 1. Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities whose emissions of hazardous air pollutants (HAPs) fall below 1,000 pounds per year.  | X               |
| <b>Maintenance, Cleaning, and Housekeeping</b>  | 1. Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.  | -               |
|   | 2. Portable blast-cleaning equipment.  | X               |
|   | 3. Non-Perchloroethylene Dry-cleaning equipment with a capacity of 100 pounds per hour or less of clothes.   | -               |
|   | 4. Cold cleaners having an air/vapor interface of not more than 10 square feet and that do not use a halogenated solvent.  | 1               |
|   | 5. Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.   | X               |
|   | 6. Devices used exclusively for cleaning metal parts or surfaces by burning off residual amounts of paint, varnish, or other foreign material, provided that such devices are equipped with afterburners.  | -               |
|   | 7. Cleaning operations: Alkaline phosphate cleaners and associated cleaners and burners.   | -               |

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### INSIGNIFICANT ACTIVITIES CHECKLIST

| Category   | Description of Insignificant Activity/Unit   | Quantity |
|--|--|----------|
| <b>Laboratories and Testing</b>  | 1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.  | 1        |
|  | 2. Research and development facilities, quality control testing facilities and/or small pilot projects, where combined daily emissions from all operations are not individually major or are support facilities not making significant contributions to the product of a collocated major manufacturing facility.                    | -        |
| <b>Pollution Control</b>   | 1. Sanitary waste water collection and treatment systems, except incineration equipment or equipment subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.  | -        |
|  | 2. On site soil or groundwater decontamination units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.   | -        |
|  | 3. Bioremediation operations units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.   | -        |
|  | 4. Landfills that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.   | -        |
| <b>Industrial Operations</b>   | 1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.   | -        |
|  | 2. Any of the following processes or process equipment which are electrically heated or which fire natural gas, LPG or distillate fuel oil at a maximum total heat input rate of not more than 5 million BTU's per hour:   | -        |
|  | i) Furnaces for heat treating glass or metals, the use of which do not involve molten materials or oil-coated parts.   | -        |
|  | ii) Porcelain enameling furnaces or porcelain enameling drying ovens.  | -        |
|  | iii) Kilns for firing ceramic ware.  | -        |
|  | iv) Crucible furnaces, pot furnaces, or induction melting and holding furnaces with a capacity of 1,000 pounds or less each, in which sweating or distilling is not conducted and in which fluxing is not conducted utilizing free chlorine, chloride or fluoride derivatives, or ammonium compounds.                                | -        |
|  | v) Bakery ovens and confection cookers.  | -        |
|  | vi) Feed mill ovens.   | -        |
|  | vii) Surface coating drying ovens  | -        |
|  | 3. Carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, shot blasting, shot peening, or polishing; ceramics, glass, leather, metals, plastics, rubber, concrete, paper stock or wood, also including roll grinding and ground wood pulping stone sharpening, provided that: | X        |
|  | i) Activity is performed indoors; &  |          |
|  | ii) No significant fugitive particulate emissions enter the environment; &   |          |
|  | iii) No visible emissions enter the outdoor atmosphere.  |          |
| 4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche).   | -  |          |
| 5. Grain, food, or mineral extrusion processes   | -  |          |
| 6. Equipment used exclusively for sintering of glass or metals, but not including equipment used for sintering metal-bearing ores, metal scale, clay, fly ash, or metal compounds. | -  |          |
| 7. Equipment for the mining and screening of uncrushed native sand and gravel.   | -  |          |
| 8. Ozonization process or process equipment.   | -  |          |
| 9. Electrostatic powder coating booths with an appropriately designed and operated particulate control system.   | -  |          |
| 10. Activities involving the application of hot melt adhesives where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.            | -  |          |
| 11. Equipment used exclusively for the mixing and blending water-based adhesives and coatings at ambient temperatures.   | -  |          |
| 12. Equipment used for compression, molding and injection of plastics where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.     | -  |          |
| 13. Ultraviolet curing processes where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.  | -  |          |

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**INSIGNIFICANT ACTIVITIES CHECKLIST**

| <b>Category</b>                    | <b>Description of Insignificant Activity/Unit</b>   | <b>Quantity</b> |
|------------------------------------|---|-----------------|
| <b>Storage Tanks and Equipment</b> | 1. All petroleum liquid storage tanks storing a liquid with a true vapor pressure of equal to or less than 0.50 psia as stored.   | 2               |
|                                    | 2. All petroleum liquid storage tanks with a capacity of less than 40,000 gallons storing a liquid with a true vapor pressure of equal to or less than 2.0 psia as stored that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act. | 0               |
|                                    | 3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.   | 15              |
|                                    | 4. All pressurized vessels designed to operate in excess of 30 psig storing petroleum fuels that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.   | 3               |
|                                    | 5. Gasoline storage and handling equipment at loading facilities handling less than 20,000 gallons per day or at vehicle dispensing facilities that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.                            | 2               |
|                                    | 6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.   | 99              |
|                                    | 7. All chemical storage tanks used to store a chemical with a true vapor pressure of less than or equal to 10 millimeters of mercury (0.19 psia).   | -               |

**INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS**

| <b>Description of Emission Units / Activities</b> | <b>Quantity</b> |
|---|-----------------|
| -   | -               |

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### ATTACHMENT B (continued)

### GENERIC EMISSION GROUPS

Emission units/activities appearing in the following table are subject only to one or more of Georgia Rules 391-3-1-.02 (2) (b), (e) &/or (n). Potential emissions of particulate matter, from these sources based on TSP, are less than 25 tons per year per process line or unit in each group. Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

| Description of Emissions Units / Activities | Number of Units (if appropriate) | Applicable Rules |                              |                        |
|---|----------------------------------|------------------|------------------------------|------------------------|
|   |                                  | Opacity Rule (b) | PM from Mfg Process Rule (e) | Fugitive Dust Rule (n) |
| -   | -                                | -                | -                            | -                      |

The following table includes groups of fuel burning equipment subject only to Georgia Rules 391-3-1-.02 (2) (b) & (d). Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

| Description of Fuel Burning Equipment  | Number of Units |
|--|-----------------|
| Fuel burning equipment with a rated heat input capacity of less than 10 million BTU/hr burning only natural gas and/or LPG.                      | -               |
| Fuel burning equipment with a rated heat input capacity of less than 5 million BTU/hr, burning only distillate fuel oil, natural gas and/or LPG. | -               |
| Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.   | -               |

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**ATTACHMENT C****LIST OF REFERENCES**

1. The Georgia Rules for Air Quality Control Chapter 391-3-1. All Rules cited herein which begin with 391-3-1 are State Air Quality Rules.
2. Title 40 of the Code of Federal Regulations; specifically 40 CFR Parts 50, 51, 52, 60, 61, 63, 64, 68, 70, 72, 73, 75, 76 and 82. All rules cited with these parts are Federal Air Quality Rules.
3. *Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Testing and Monitoring Sources of Air Pollutants.*
4. *Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Calculating Air Permit Fees.*
5. Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Major Sources. This information may be obtained from EPA's TTN web site at [www.epa.gov/ttn/chief/ap42/index.html](http://www.epa.gov/ttn/chief/ap42/index.html).
6. The latest properly functioning version of EPA's **TANKS** emission estimation software. The software may be obtained from EPA's TTN web site at [www.epa.gov/ttn/chief/software/tanks/index.html](http://www.epa.gov/ttn/chief/software/tanks/index.html).
7. The Clean Air Act (42 U.S.C. 7401 et seq).
8. White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995 (White Paper #1).
9. White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program, March 5, 1996 (White Paper #2).

**ATTACHMENT D**

**U.S. EPA ACID RAIN PROGRAM PERMIT APPLICATION  
OR PHASE II NO<sub>x</sub> AVERAGING PLAN**

**ATTACHMENT E**

**CAIR Permit for SO<sub>2</sub> and NO<sub>x</sub> Annual Trading Programs**