Part 70 Operating Permit

Permit Number: 4911-103-0003-V-03-0  Effective Date: September 25, 2012

Facility Name: McIntosh Steam – Electric Generating Plant

Facility Address: 981 Old Augusta Road
Rincon, Georgia, 31326 (Effingham County)

Mailing Address: 981 Old Augusta Road Central/P.O. Box 2507
Rincon, Georgia, 31326

Parent/Holding Company: Southern Company / Georgia Power

Facility AIRS Number: 04-13-103-00003

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 eight (8) 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. TV-20540 signed on June 27, 2011, 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 55 pages.

[Signed]

Director
Environmental Protection Division
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PART 1.0 FACILITY DESCRIPTION

1.1 Site Determination

The McIntosh Steam – Electric Generating Plant (AFS No. 103-00001) and the McIntosh Combined-Cycle facility (AFS No. 103-00014) comprise the same Title I and Title V site.

1.2 Previous and/or Other Names

The facility is commonly known and referred to as Plant McIntosh. It was formerly known as Effingham Station (before 1983).

1.3 Overall Facility Process Description

Plant McIntosh burns fossil fuel to generate electricity. This facility includes one steam electric generating unit which primarily burns coal and eight (8) simple cycle combustion turbines which primarily burn natural gas. The steam generating unit exhausts through one 400-foot stack, designated as Source 1. Each combustion turbine has its own exhaust which is 64-feet tall.
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.
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

<table>
<thead>
<tr>
<th>Emission Units</th>
<th>Specific Limitations/Requirements</th>
<th>Air Pollution Control Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ID No.</strong></td>
<td><strong>Description</strong></td>
<td><strong>Applicable Requirements/Standards</strong></td>
</tr>
<tr>
<td>SG01 Steam Generator Unit 1</td>
<td>391-3-1-.02(2)(b)</td>
<td>3.2.1, 3.2.2, 3.3.9, 3.4.1, 3.4.2, 3.4.3, 3.4.9, 4.2.1, 5.2.1, 5.2.3, 5.2.12, 5.2.13, 5.2.14, 5.2.15, 5.2.16, 5.2.17, 5.2.18, 6.2.1, 6.2.2, 6.2.3, 6.2.4, 6.2.5, 6.2.7, 7.9.1 through 7.9.8</td>
</tr>
<tr>
<td>CT01 Combustion Turbine Unit #1</td>
<td>40 CFR 52.21, 391-3-1-.02(2)(b), 391-3-1-.02(2)(g)</td>
<td>3.2.3, 3.2.4, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.6, 3.3.7, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.13, 5.2.14, 5.2.15, 5.2.16, 5.2.17, 5.2.19, 6.2.3, 6.2.6, 6.2.8, 7.9.1 through 7.9.8</td>
</tr>
<tr>
<td>CT02 Combustion Turbine Unit #2</td>
<td>See CT01</td>
<td>3.2.3, 3.2.4, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.6, 3.3.7, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.5, 5.2.13, 5.2.14, 5.2.15, 5.2.16, 5.2.17, 5.2.19, 6.2.3, 6.2.6, 6.2.8, 7.9.1 through 7.9.8</td>
</tr>
<tr>
<td>CT03 Combustion Turbine Unit #3</td>
<td>See CT01</td>
<td>3.2.3, 3.2.4, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.6, 3.3.7, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.6, 5.2.13, 5.2.14, 5.2.15, 5.2.16, 5.2.17, 5.2.19, 6.2.3, 6.2.6, 6.2.8, 7.9.1 through 7.9.8</td>
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<tr>
<td>CT04 Combustion Turbine Unit #4</td>
<td>See CT01</td>
<td>3.2.3, 3.2.4, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.6, 3.3.7, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.2.7, 5.2.13, 5.2.14, 5.2.15, 5.2.16, 5.2.17, 5.2.19, 6.2.3, 6.2.6, 6.2.8, 7.9.1 through 7.9.8</td>
</tr>
<tr>
<td>ID No.</td>
<td>Description</td>
<td>Specific Limitations/Requirements</td>
</tr>
<tr>
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</tr>
<tr>
<td>CT05</td>
<td>Combustion Turbine Unit #5</td>
<td>See CT01</td>
</tr>
<tr>
<td>CT06</td>
<td>Combustion Turbine Unit #6</td>
<td>See CT01</td>
</tr>
<tr>
<td>CT07</td>
<td>Combustion Turbine Unit #7</td>
<td>See CT01</td>
</tr>
<tr>
<td>CT08</td>
<td>Combustion Turbine Unit #8</td>
<td>See CT01</td>
</tr>
<tr>
<td>CHS</td>
<td>Coal Handling System</td>
<td>391-3-1-.02(2)(n) 40 CFR 60 Subpart A 40 CFR 60 Subpart Y</td>
</tr>
<tr>
<td>AHS</td>
<td>Ash Handling System</td>
<td>391-3-1-.02(2)(n)</td>
</tr>
<tr>
<td>SB01</td>
<td>Start-Up Boiler Unit 1</td>
<td>391-3-1-.02(2)(b) 391-3-1-.02(2)(d) 391-3-1-.02(2)(g) 40 CFR 63 Subpart A 40 CFR 63 Subpart DDDDD</td>
</tr>
</tbody>
</table>

* 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 (Emission Unit ID SG01) except for the following: [391-3-1-.03(2)(c)]

a. No. 2 fuel oil, biodiesel, or biodiesel blends may be burned during start-up and 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.

State Only Enforceable Condition

3.2.2 The Permittee shall not burn used oil in any steam generating unit (Emission Unit ID SG01) during periods of startup or shutdown. For the purposes of this permit, startup shall be defined as the period lasting from the time 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. Shutdown shall be defined as the cessation of the operation of a source or facility for any purpose.

3.2.3 The Permittee shall not fire any fuel other than natural gas, No. 2 fuel oil, biodiesel, or biodiesel blends in the combustion turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08).

3.2.4 The Permittee shall limit the burning of fuel(s) in each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) such that the maximum annual heat input from the burning of all such fuel(s) in each turbine does not exceed $2.2 \times 10^{12}$ Btu. For purposes of this condition, the maximum annual heat input of the fuel oil burned in a turbine shall be calculated by multiplying the annual fuel oil (in gallons) consumed by the turbine, as measured by the fuel oil measurement device required by Condition 5.2.1, by 137,000 Btu per gallon. The maximum annual heat input of the natural gas burned in a turbine shall be calculated by multiplying the annual natural gas (in cubic feet) consumed by the turbine, as measured by the natural gas measurement device required by Condition 5.2.1, by 1022 Btu per cubic foot.

3.2.5 The Permittee shall not fire any fuel other than No. 2 fuel oil, biodiesel, or biodiesel blends in the start-up boiler (emission unit ID SB01).
3.3 Equipment Federal Rule Standards

3.3.1 The Permittee shall not discharge or cause the discharge into the atmosphere from any combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08), when burning fuel oil in the turbine, any gases which:

[40 CFR 52.21(j) and 40 CFR 60.332(a) subsumed]

a. Contain nitrogen oxides in excess of that allowed by the following equation:

\[ \text{STD} = 0.0042 + F \]

where:

\[ \text{STD} \] = allowable NOx emissions (percent by volume at 15 percent oxygen and on a dry basis)

\[ F \] = NOx emission allowance for fuel-bound nitrogen defined by the following table:

<table>
<thead>
<tr>
<th>Fuel-bound nitrogen (% by wt.)</th>
<th>F (NOx % by volume)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N \leq 0.015</td>
<td>0</td>
</tr>
<tr>
<td>0.015 &lt; N &lt; 0.06</td>
<td>0.04(N)</td>
</tr>
<tr>
<td>N &gt; 0.06</td>
<td>0.0024</td>
</tr>
</tbody>
</table>

where: \( N \) = the nitrogen content of the fuel (% by wt.)

b. Contain carbon monoxide in excess of the following rates:

i. 9 ppmvd at a load factor of 100% load or greater.

ii. \( CO = -4.72 \times (\text{LF}\% ) + 481; \) for load factors greater than or equal to 75% load and less than 100% load.

iii. \( CO = -8.92 \times (\text{LF}\% ) + 796; \) for load factors greater than or equal to 50% load and less than 75% load.

iv. 350 ppmvd at loads below a load factor of 50% load.

Where \( CO \) equals the allowable carbon monoxide emission rate in ppmvd and \( \text{LF}\% \) equals the load factor percentage with 100 corresponding to 100% load, defined as the maximum load achieved during the testing of the unit.

c. Contain particulate matter in excess of 0.012 pound per million Btu heat input.

d. Contain volatile organic compounds, as carbon, in excess of 30 ppm when the load factor is less than 75% and 11 ppm when the load factor is equal to or greater than 75%.

e. Exhibit greater than 10 percent opacity.
3.3.2 The Permittee shall not discharge or cause the discharge into the atmosphere from any combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08), when burning natural gas in the turbine, any gases which:

[40 CFR 52.21(j)]

a. Contain nitrogen oxides in excess of 25 ppmvd at 15 percent oxygen.

b. Contain carbon monoxide in excess of the following rates:

   i. 9 ppmvd at a load factor of 100% load or greater.
   ii. CO = -4.72 x (LF%) + 481; for load factors greater than or equal to 75% load and less than 100% load.
   iii. CO = -8.92 x (LF%) + 796; for load factors greater than or equal to 50% load and less than 75% load.
   iv. 350 ppmvd at loads below a load factor of 50% load.

Where CO equals the allowable carbon monoxide emission rate in ppmvd and LF% equals the load factor percentage with 100 corresponding to 100% load, defined as the maximum load achieved during the testing of the unit.

c. Contain particulate matter in excess of 0.006 pound per million Btu heat input.

d. Contain volatile organic compounds, as carbon, in excess of 30 ppm when the load factor is less than 75% and 11 ppm when the load factor is equal to or greater than 75%.

e. Exhibit greater than 10 percent opacity.

3.3.3 The Permittee shall not burn in any combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) any fuel oil which contains sulfur in excess of 0.5 percent by weight.

[40 CFR 52.21(j) and 40 CFR 60.334(j)(2) subsumed]

3.3.4 Emission Units CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08 shall comply with all applicable requirements in 40 CFR 60 - Standards of Performance for New Stationary Sources, Subpart A - General Provisions and 40 CFR 60 - Standards of Performance for New Stationary Sources, Subpart GG – Standards of Performance for Stationary Gas Turbines.

[40 CFR 60 Subpart A and 40 CFR 60 Subpart GG]

3.3.5 The percent opacity from the coal handling system (Emission Unit ID CHS) shall not equal or exceed 20 percent.

[40 CFR 60.252(c), 391-3-1-.02(2)(n)2 subsumed]
3.3.6 The annual average sulfur content of the fuel oil burned in the combustion turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) shall not exceed 0.05 percent by weight.

\[ [40 \text{ CFR 52.21}] \]

\[
AAS = \left( \frac{\sum_{i=1}^{n} (DS_i \times DOF_i)}{\sum_{i=1}^{n} DOF_i} \right)
\]

Where:

- \( AAS \) = annual average sulfur content (% by weight)
- \( n \) = total number of days per calendar year during which fuel oil is burned in one or more turbines
- \( DS \) = daily sulfur content (% by weight) of the fuel oil burned in the turbine(s)
- \( DOF \) = total gallons of fuel oil burned in the turbine(s) during the day

3.3.7 The Permittee shall comply with all applicable requirements of Federal Rule 40 CFR 63 Subpart A – General Provisions and Federal Rule 40 CFR 63 Subpart YYYY – NESHAP for Stationary Combustion Turbines, for the operation of Combustion Turbine Units CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08. Stationary combustion turbines constructed or reconstructed prior to January 14, 2003 do not have to meet the requirements of 40 CFR 63 Subpart YYYY or Subpart A.

\[ [40 \text{ CFR 63.6090(b)(4)}] \]

3.3.8 The Permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants (NESHAP) as found in 40 CFR 63 Subpart A - "General Provisions" and 40 CFR 63 Subpart DDDDD - " Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters" for operation of the startup boiler (Emission Unit ID SB01).

\[ [40 \text{ CFR 63 Subpart DDDDD}] \]


\[ [40 \text{ CFR 63 Subpart UUUUU}] \]

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 (Emission Unit ID SG01) any gases which contain particulate matter in excess of 0.18 lb/mmBtu heat input.

\[ [391-3-1-.02(2)(c), 391-3-1-.02(2)(d)1(ii) (subsumed)] \]
3.4.2 The Permittee shall not discharge or cause the discharge into the atmosphere from the steam generating unit (Emission Unit ID SG01) any gases which exhibit opacity equal to or greater than 40 percent. [391-3-1-.02(2)(b)]

3.4.3 The Permittee shall not fire any fuel in the steam generating unit (Emission Unit ID SG01) 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 (Emission Unit ID CHS) and the ash handling system (Emission Unit ID 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 ash handling system (Emission Unit ID AHS) shall not equal or exceed 20 percent. [391-3-1-.02(2)(n)2]

3.4.6 The Permittee shall not cause, let, suffer, permit or allow the emission of fly ash and/or other particulate matter from the startup boiler (Emission Unit ID SB01) in amounts equal to or exceeding the allowable rate calculated \[ P = 0.5(10/R)^{0.5} \]

Where:

\[ P = \text{allowable weight of emissions of fly ash and/or other particulate matter in pounds per million BTU heat input} \]

\[ R = \text{heat input of fuel-burning equipment in million BTU per hour} \]

3.4.7 The Permittee shall not cause, let, suffer, permit or allow the emissions from the startup boiler (Emission Unit ID SB01), 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)3, 391-3-1-.02(2)(b)1 subsumed]

3.4.8 The Permittee shall not burn fuel containing more than 2.5 percent sulfur, by weight, in the startup boiler (Emission Unit ID SB01). [391-3-1-.02(2)(g)2]

3.4.9 Effective January 1, 2018, the Permittee shall evaluate the economic and technical feasibility of additional mercury controls on the steam generating unit (Emission Unit ID SG01) and submit a report on the findings to the Division no later than September 1 of the calendar year following the calendar year that the annual heat input of the steam generating unit (Emission Unit ID SG01) exceeds 14,557,638 million Btu. [391-3-1-.02(2)(sss)16.]
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)(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 the determination of sample point locations,
b. Method 2 for the determination of stack gas flow rate,
c. Method 3 or 3A for the determination of stack gas molecular weight,
d. Method 3B for the determination of the emissions rate correction factor or excess air. Method 3A may be used as an alternate,
e. Method 4 for the determination of stack gas moisture,
f. Method 5 or Method 17 for the determination of Particulate Matter concentration,
g. Method 6 or 6C for the determination of Sulfur Dioxide concentration,
h. Method 7 or 7E for the determination of Nitrogen Oxides concentration,
i. Method 9 and the procedures contained in Section 1.3 of the above reference document for the determination of opacity,
j. Method 10 for the determination of carbon monoxide concentration,
k. Method 19, section 12.5.2.2.3 or the procedures specified in 40 CFR Part 75, Appendix D for the determination of the sulfur content of fuel oil,
1. 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/MBBtu),

m. ASTM Method D4629 or D3228 for the determination of fuel oil nitrogen content,

n. Method 20 for the concentration of nitrogen oxides from the combustion turbines
(Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08),

o. Method 25A for the determination of volatile organic compounds, as carbon.

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.

State Only Enforceable Condition

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

4.2 Specific Testing Requirements

4.2.1 The Permittee shall conduct the following performance tests on the following emissions
unit(s) at the frequency specified:

a. For particulate matter on the steam generating unit (Emission Unit ID SG01). 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.

b. For nitrogen oxide emissions while combusting natural gas and while combusting
fuel oil in each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04,
CT05, CT06, CT07, and CT08). Testing shall be conducted at a minimum of four
points in the operating range of the turbines for each fuel, including the minimum
point in the range and the peak load. The tests shall be conducted at the frequency
specified for retesting on the nitrogen oxides emission rate under 40 CFR 75,
Appendix E, §2.2 (at least once every 20 calendar quarters following the issuance of
the Part 72 permit for each affected unit). The results of the tests shall be used to
establish or (verify) a water/fuel flow ratio under Condition 6.1.7a.ii. that has been
determined to demonstrate with the limits in Conditions 3.3.1a. and 3.3.2a.
c. For carbon monoxide while combusting natural gas and while combusting fuel oil in each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08). Testing shall be conducted at a minimum of three points in the operating range of the turbines for each fuel, including the minimum point in the range and the peak load. Testing shall be conducted at the same frequency as testing for nitrogen oxide emissions under Condition 4.2.1b. The results of the tests shall be used to verify that the specified operating load (Megawatts) in Condition 6.1.7a.ii. is appropriate for assuring compliance with the limits in Conditions 3.3.1b. and 3.3.2b.
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.

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 or parameters on the following equipment. Each system shall meet the applicable performance specification(s) of the Division’s monitoring requirements.

a. A Continuous Opacity Monitoring System (COMS), for the measurement of opacity, on the steam generating unit (Emission Unit ID SG01).

b. A device to measure and record the quantity of fuel oil, in gallons, and the quantity of natural gas, in cubic feet, burned in each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08).

c. A monitoring system to monitor and record the ratio of water to fuel being burned in each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08).

d. A system to continuously monitor and record the coal feed rate (tons/hour) to the coal pulverizing mills for the steam generating unit (Emission Unit ID SG01). Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division’s monitoring requirements.

5.2.2 The Permittee shall determine the electrical output (MW) for each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) for each hour of operation. For the purposes of this permit, each hour of combustion turbine operation shall begin on the clock hour.
5.2.3 The following pollutant specific emission unit(s) (PSEU) is/are subject to the Compliance Assurance Monitoring (CAM) Rule in 40 CFR 64.

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Pollutant</th>
</tr>
</thead>
<tbody>
<tr>
<td>CT01</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT02</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT03</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT04</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT05</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT06</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT07</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>CT08</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>SG01</td>
<td>Particulate Matter</td>
</tr>
</tbody>
</table>

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]

5.2.4 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #1. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>
5.2.5 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #2. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>

5.2.6 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #3. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
</tbody>
</table>
## 5.2.7 Performance Criteria

The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #4. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>

### A. Data Representativeness [64.3(b)(1)]

The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.

### B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]

NA

### C. QA/QC Practices and Criteria [64.3(b)(3)]

Fuel and water flow meters are calibrated per manufacturer’s recommendations.

### D. Monitoring Frequency [64.3(b)(4)]

Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.

| Data Collection Procedures [64.3(b)(4)] | The DAS retains all hourly average water/fuel ratio data. |
| Averaging Period [64.3(b)(4)] | The one-minute data is used to calculate the one-hour average. |
5.2.8 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #5.

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

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>

5.2.9 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #6.

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

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
</tbody>
</table>
5.2.10 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #7. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>
5.2.11 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides emissions from Combustion Turbine Unit #8. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Water/fuel flow ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The water/fuel flow ratio is continuously measured and displayed on the unit control system. The monitor was installed and certified according to performance specification. Fuel Flow is monitored with flow meters certified under 40 CFR Part 75, Appendix D. Water flow is also monitored by the control system to calculate water/fuel flow ratio.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>Fuel and water flow meters are calibrated per manufacturer’s recommendations.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>Fuel and water flow are monitored continuously. The water/fuel ratio is calculated continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all hourly average water/fuel ratio data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The one-minute data is used to calculate the one-hour average.</td>
</tr>
</tbody>
</table>

5.2.12 The Permittee shall comply with the performance criteria listed in the table below for the particulate matter emissions from Steam Generating Unit #1. [40 CFR 64.6(c)(1)(iii)]

<table>
<thead>
<tr>
<th>Performance Criteria [64.4(a)(3)]</th>
<th>Indicator No. 1 Opacity from EP01 Exhaust</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Data Representativeness [64.3(b)(1)]</td>
<td>The continuous emissions monitoring system (COMS) is located in EP01 exhaust. The COMS was installed at a representative location per 40 CFR 60, Appendix B, PS-1. The monitor was installed and certified according to performance specification.</td>
</tr>
<tr>
<td>B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]</td>
<td>NA</td>
</tr>
</tbody>
</table>
### Performance Criteria

<table>
<thead>
<tr>
<th><strong>Indicator No. 1</strong></th>
<th><strong>Opacity from EP01 Exhaust</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>C. QA/QC Practices and Criteria [64.3(b)(3)]</td>
<td>The COMS was initially installed and evaluated per PS-1. Zero and span drift are checked daily and a quarterly filter audit is performed.</td>
</tr>
<tr>
<td>D. Monitoring Frequency [64.3(b)(4)]</td>
<td>The opacity is monitored continuously.</td>
</tr>
<tr>
<td>Data Collection Procedures [64.3(b)(4)]</td>
<td>The DAS retains all six-minute opacity data.</td>
</tr>
<tr>
<td>Averaging Period [64.3(b)(4)]</td>
<td>The six-minute data is used to calculate the three-hour block average.</td>
</tr>
</tbody>
</table>

---

5.2.13 The Permittee shall, at all times, maintain the monitoring required by Conditions 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, and 5.2.12, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]

5.2.14 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)]
5.2.15 Upon detecting an excursion or exceedance as defined in Condition 6.1.7, 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 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)]

5.2.16 If the Permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring in Conditions 5.2.4, 5.2.5, 5.2.6, 5.2.7, 5.2.8, 5.2.9, 5.2.10, 5.2.11, and 5.2.12 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)]

5.2.17 The Permittee shall determine the three-hour block average sulfur content (%S) of coal burned in steam generating unit SG01 for each day or portion of a day that coal is burned in said unit. 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. For purposes of this Permit, the Permittee shall use the following equation to compute the hourly sulfur content (%S):

\[
%S = \frac{\left( E_{SO_2} * 0.5 \right)}{\left( \text{Coalflow} * (0.97) * (1-K) \right)} * 100%
\]

where S equals the coal sulfur content in percent by weight; \( E_{SO_2} \) equals the \( SO_2 \) emissions, as determined by the Part 75 continuous emissions monitoring system in lbs per hour; 0.5 equals the ratio of sulfur and sulfur dioxide molecular weights, dimensionless; Coalflow equals the coal flow rate as determined from the coal flow meters in pounds per hour; K equals a correction factor for moisture fraction, default value of 0.060 to be used; 0.97 equals a constant which accounts for ash retention, dimensionless.
State Only Enforceable Condition

5.2.18 The Permittee shall, upon written request by the Division, analyze any used oil to be burned in Steam Generating Unit 1. 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 concentration of arsenic, cadmium, chromium, and lead.

c. SW-846 Method 9077C 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).

5.2.19 The Permittee shall monitor the sulfur content and nitrogen content of the fuels being burned in the combustion turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) as follows:
[40 CFR 70.6(a)(3)(i)]

a. For natural gas, the Permittee shall monitor the sulfur content by the submittal of semiannual analysis of the gas by the supplier. No determination of the nitrogen content shall be required.
[391-3-1-.02(6)(b)1(i); 40 CFR 70.6(a)(3)(i); Delegation of Authority to Regions for Custom Fuel Monitoring Schedules under NSPS GG approved by U.S. EPA; August 14, 1987; 40 CFR 60.334(h)(1), (h)(2), and (h)(4)]

b. For fuel oil, the Permittee shall determine the sulfur content and the nitrogen content each day of operation of the combustion turbines.
[40 CFR 60.334(h)(4)]
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 of monitors required by 5.2 of this permit 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 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.
Title V Permit
McIntosh Steam – Electric Generating Plant Permit No.: 4911-103-0003-V-03-0

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 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)(iii)]

a. Excess emissions: (means for the purpose of this Condition and Condition 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. Any period during which the sulfur content of the fuel oil burned in the combustion turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) exceeds 0.5 percent sulfur by weight, as indicated by the sulfur analysis required by Condition 5.2.19b. [40 CFR 60.334(j)(2)]

ii. Any unit operating hour during which the monitoring system required in Condition 5.2.1c, falls below the water-to-fuel ratio determined to demonstrate compliance with the limits in Conditions 3.3.1a and 3.3.2a. The water-to-fuel ratio determined to demonstrate compliance at the load (Megawatts) at which the turbine is being operated shall be based upon the correlation established during the most recent performance test approved by the Division. Any unit operating hour in which no water or steam is injected into the turbine shall also be considered an excess emission. [40 CFR 60.334(j)(1)]

b. Exceedances: (means for the purpose of this Condition and Condition 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. For Unit 1 (Emission Unit ID SG01), any twenty-four hour block average during which the arithmetic average coal sulfur content, as determined in accordance with Condition 6.2.4, exceeds 3.0 percent. A twenty-four hour block average shall be defined as a twenty-four hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit. It is not necessary for fuel to be combusted continuously for the entire twenty-four hour period.

ii. For each combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08), any annual average fuel oil sulfur content, as determined in accordance with Condition 3.3.6, which exceeds 0.05 percent by weight. For purposes of this condition, an annual period is represented by a calendar year. [40 CFR 52.21]

iii. Any time fuel is fired in the startup boiler (Emission Unit ID SB01) that has a sulfur content which exceeds 2.5 percent sulfur, by weight.
iv. Any six-minute period during which the average opacity, as measured by the COMS for the steam generating unit (Emission Unit ID SG01) exceeds 40 percent.

c. Excursions: (means for the purpose of this Condition and Condition 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 Unit 1 (Emission Unit ID SG01), any three-hour block average during which the arithmetic average opacity, as measured by the COMS, exceeds 28 percent (for combustion of fuel which does not include Pine Branch coal) or 22.5 percent (for combustion of fuel which includes Pine Branch coal). 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. Any period of time greater than 3 hours in which any combustion turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) is operated below 50 MW.

iii. Any period during which the fuel-bound nitrogen of the fuel oil burned in the combustion turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) is greater than 0.06 percent by weight.

[40 CFR 60.334(c)(1)]

d. In addition to the excess emissions, exceedances and excursions specified above, the following should also be included with the report required in Condition 6.1.4:

i. The Permittee shall submit written reports to the Division of the analyses of the fuel oil and used oil burned in Steam Generating Unit 1 (Emission Unit ID SG01). Reports shall be submitted for each quarter ending on March 31, June 30, September 30, and December 31, and records shall be submitted along with the quarterly reports required in Condition 6.1.4.

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

ii. The Permittee shall submit written reports to the Division which specify the twenty-four hour block arithmetic average coal sulfur content for the steam generating unit (Emission Unit ID SG01) for each day in the reporting period. Reports shall be submitted for each quarter ending on March 31, June 30, September 30, and December 31, and records shall be submitted along with the quarterly reports required in Condition 6.1.4.

[391-3-1-.02(6)(b)1(i) and 40 CFR 70.6(a)(3)(i)]
iii. The Permittee shall submit to the Division a written report showing the quantities of fuel oil and natural gas consumed by each turbine (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) and the combined heat input from the consumption of such fuels in each turbine for every calendar quarter. Reports shall be submitted for each quarter ending on March 31, June 30, September 30, and December 31, and records shall be submitted along with the quarterly reports required in Condition 6.1.4.

[40 CFR 52.21]

6.2 Specific Record Keeping and Reporting Requirements

**State Only Enforceable Condition**

6.2.1 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 the steam generating unit (Emission Unit ID SG01). 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 quantity (gallons) of distillate oil, No. 2 fuel oil, biodiesel, biodiesel blends, 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.

6.2.2 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)]

6.2.3 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)]
6.2.4 The Permittee shall use the monitoring required by Condition 5.2.17 for the steam generating unit (Emission Unit ID SG01) to determine and record the twenty-four hour block arithmetic average coal sulfur content, on a daily basis. The record shall so note when coal has not been combusted in the steam generating unit (emission unit ID SG01) during any twenty-four hour block period.

These records shall include all calculations used to determine this parameter as well as be maintained in a format suitable and available for submittal or inspection by the Division. A twenty-four hour block average shall be defined as a twenty-four hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time in the steam generating unit (Emission Unit ID SG01). It is not necessary for fuel to be combusted continuously for the entire twenty-four hour period.

[391-3-1-.02(6)(b)1(i) and 40 CFR70.6(a)(3)(i)]

State Only Enforceable Condition

6.2.5 The Permittee shall maintain records of representative samples of the coal and sawdust burned in the steam generating unit (Emission Unit ID SG01). 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.

6.2.6 The Permittee shall maintain records of the fuel oil and natural gas consumed by each of the turbines (Emission Unit IDs CT01, CT02, CT03, CT04, CT05, CT06, CT07, and CT08) and shall determine the heat input for each turbine on a quarterly basis. The records shall be in a permanent form suitable and available for inspection. For the purposes of this condition, the heat input rate for fuel oil shall be calculated by multiplying the fuel oil consumed (in gallons) in each quarter by 137,000 Btu per gallon. The heat input rate for natural gas shall be calculated by multiplying the natural gas consumed (in cubic feet) in each quarter by 1022 Btu per cubic foot. The amount of fuel oil or natural gas consumed shall be determined using the measurement devices required in Condition 5.2.1b.

[40 CFR 70.6(a)(3)(i), 40 CFR 52.21]

6.2.7 For each shipment of fuel oil received for combustion in the steam generating unit with Emission Unit ID SG01, the Permittee shall obtain from the supplier of the fuel oil, a statement certifying that the oil complies with the specifications of fuel oil contained in ASTM D396, ASTM D975, or ASTM D6751. As an alternative to the procedure described above, the Permittee may, for each shipment of 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 D1552 or by some other test method approved by the US EPA and acceptable to the Division.

[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
6.2.8 The Permittee shall submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including startup, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined by 40 CFR 60.334(j).

[391-3-1-.02(6)(b)1, 40 CFR 60.7(c), 40 CFR 60.334(j), and 40 CFR 70.6(a)(3)(i)]
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.

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:

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.

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:

a. Sand Blasting for maintenance purposes in accordance with Georgia Rule 391-3-1-.02(b)(n).

b. Asbestos removal in accordance with Georgia Rule 391-3-1-.02(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.
Title V Permit

McIntosh Steam – Electric Generating Plant

Permit No.: 4911-103-0003-V-03-0

7.9 Acid Rain Requirements

Facility ORIS code: 6124
Effective: January 01, 2012 through December 31, 2016

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)]

7.9.7 SO₂ Allowance Allocations and NOₓ Requirements for each affected unit

[40 CFR 73 (SO₂) and 40 CFR 76 (NOₓ)]

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SO₂ allowances under Tables 2, 3, or 4 of 40 CFR Part 73.

NOₓ Limit

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.
### SO₂ Emissions

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**NOₓ Limit**

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.

### NOₓ Emissions

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**NOₓ Limit**

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.

### SO₂ Emissions

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**NOₓ Limit**

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.

### SO₂ Emissions

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**NOₓ Limit**

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.

### SO₂ Emissions

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**NOₓ Limit**

This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.
### Emission Allowances

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<td>This affected unit is not subject to the NOₓ requirements of 40 CFR Part 76.</td>
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The standard annual average NOx limit for a Phase I wall-fired boiler is 0.50 lb/mmBtu. In lieu of this limit, the Permittee may comply with 40 CFR Part 76 by complying with an approved Phase II NOx averaging plan as described below.

Pursuant to 40 CFR 76.11, Georgia EPD approves five NOx emissions averaging plans for this unit. Each plan is effective for one calendar year for the years 2012, 2013, 2014, 2015, and 2016. Under each plan, this unit’s NOx emissions shall not exceed the annual average alternative contemporaneous emission limitation of 0.86 lb/mmBtu. In addition, this unit shall not have an annual heat input greater than 9,215,784 mmBtu.

Under the plan, the actual Btu-weighted annual average NOx emission rate for the units in the plan shall be less than or equal to the Btu-weighted annual average NOx 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.

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.

In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions.

7.9.8 Permit Application: The Phase II Acid Rain Permit Application and Compliance 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

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). 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.

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:

<table>
<thead>
<tr>
<th>Air Quality Permit and Amendment Number(s)</th>
<th>Dates of Original Permit or Amendment Issuance</th>
</tr>
</thead>
<tbody>
<tr>
<td>4911-103-0003-V-02-0</td>
<td>January 10, 2007</td>
</tr>
<tr>
<td>4911-103-0003-V-02-1</td>
<td>March 12, 2009</td>
</tr>
<tr>
<td>4911-103-0003-V-02-2</td>
<td>June 8, 2009</td>
</tr>
<tr>
<td>4911-103-0003-V-02-3</td>
<td>September 18, 2009</td>
</tr>
<tr>
<td>4911-103-0003-V-02-4</td>
<td>March 2, 2012</td>
</tr>
</tbody>
</table>

7.13 Pollution Prevention

None applicable.

7.14 Specific Conditions

None applicable.
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 NOx Allowance Allocations in accordance with the CAIR requirements as follows:

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

<table>
<thead>
<tr>
<th>Facility Wide</th>
<th>Emission Unit IDs.</th>
<th>EPA IDs.</th>
<th>CAIR Facility Wide Annual NOx Allowances (tpy)</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
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<td>CT08</td>
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</tbody>
</table>
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.

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.

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.
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.

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:

a. If additional applicable requirements become applicable to the source and the remaining Permit term is three (3) or more years. 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 the effective date of the requirement is later than the date on which the Permit is due to expire, unless the original permit or any of its terms and conditions has been extended under Condition 8.5.3;

b. If any additional applicable requirements of the Acid Rain Program become applicable to the source;

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

d. The Director determines that the Permit must be revised or revoked to assure compliance with the applicable requirements.

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.
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 A Permit revision shall not be required for changes that are explicitly authorized by the conditions of this Permit.  

8.11.6 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:

\[391-3-1-.03(10)(d)7 \text{ and } 40 \text{ CFR } 70.6(g)(2) \text{ and (3)}\]

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.

\[391-3-1-.03(10)(d)7 \text{ and } 40 \text{ CFR } 70.6(g)(4)\]

8.13.4 The emergency conditions listed above are in addition to any emergency or upset provisions contained in any applicable requirement.

\[391-3-1-.03(10)(d)7 \text{ and } 40 \text{ CFR } 70.6(g)(5)\]

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:

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

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

   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 area 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.

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.

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.

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.

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.
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.

\[ E = 4.1P^{0.67} \] 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.

8.22 Fugitive Dust

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]

- The degreaser shall be equipped with a cover to prevent escape of VOC during periods of non-use,
- The degreaser shall be equipped with a device to drain cleaned parts before removal from the unit,
- 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:
  - The degreaser shall be equipped with a freeboard that gives a freeboard ratio of 0.7 or greater, or
  - The degreaser shall be equipped with a water cover (solvent must be insoluble in and heavier than water), or
  - The degreaser shall be equipped with a system of equivalent control, including but not limited to, a refrigerated chiller or carbon adsorption system.
- 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
- 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]

- 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.
- 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 of at least 1500°F in the secondary chamber.

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 Internal Combustion Engines

8.27.1 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A - "General Provisions" and 40 CFR 60 Subpart IIII-“Standard of Performance 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 60.4200, 391-3-1-.02(8)(b)77]

a. Equip all emergency generator engines with non-resettable hour meters.

b. Purchase only diesel fuel with a maximum sulfur content of 15 ppm unless otherwise specified by the Division.

8.27.2 The Permittee shall comply with all applicable provisions of New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A - "General Provisions" and 40 CFR 60 Subpart JJJJ-“Standard of Performance for Stationary Spark Ignition Internal Combustion Engines,” for spark ignition internal combustion engine(s) (gasoline, natural gas, liquefied petroleum gas or propane-fired) manufactured after July 1, 2007 or modified/reconstructed after June 12, 2006.

[40 CFR 60.4230, 391-3-1-.02(8)(b)79]


[40 CFR 63.6580, 391-3-1-.02(9)(b)118]

8.28 Boilers and Process Heaters


[40 CFR 63.11193]


[40 CFR 63.7480]
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. U.S. EPA Acid Rain Program Phase II Permit Application
E. CAIR Permit Application for SO₂ and NO₃ Annual Trading Programs
## ATTACHMENT A

### List Of Standard Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIRS</td>
<td>Aerometric Information Retrieval System</td>
</tr>
<tr>
<td>APCD</td>
<td>Air Pollution Control Device</td>
</tr>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>BACT</td>
<td>Best Available Control Technology</td>
</tr>
<tr>
<td>BTU</td>
<td>British Thermal Unit</td>
</tr>
<tr>
<td>CAAA</td>
<td>Clean Air Act Amendments</td>
</tr>
<tr>
<td>CEMS</td>
<td>Continuous Emission Monitoring System</td>
</tr>
<tr>
<td>CERMS</td>
<td>Continuous Emission Rate Monitoring System</td>
</tr>
<tr>
<td>CFR</td>
<td>Code of Federal Regulations</td>
</tr>
<tr>
<td>CMS</td>
<td>Continuous Monitoring System(s)</td>
</tr>
<tr>
<td>CO</td>
<td>Carbon Monoxide</td>
</tr>
<tr>
<td>COMS</td>
<td>Continuous Opacity Monitoring System</td>
</tr>
<tr>
<td>dscf/dscm</td>
<td>Dry Standard Cubic Foot / Dry Standard Cubic Meter</td>
</tr>
<tr>
<td>EPA</td>
<td>United States Environmental Protection Agency</td>
</tr>
<tr>
<td>EPCRA</td>
<td>Emergency Planning and Community Right to Know Act</td>
</tr>
<tr>
<td>gr</td>
<td>Grain(s)</td>
</tr>
<tr>
<td>GPM (gpm)</td>
<td>Gallons per minute</td>
</tr>
<tr>
<td>H₂O (H₂O)</td>
<td>Water</td>
</tr>
<tr>
<td>HAP</td>
<td>Hazardous Air Pollutant</td>
</tr>
<tr>
<td>HCFC</td>
<td>Hydro-chloro-fluorocarbon</td>
</tr>
<tr>
<td>MACT</td>
<td>Maximum Achievable Control Technology</td>
</tr>
<tr>
<td>MMBtu</td>
<td>Million British Thermal Units</td>
</tr>
<tr>
<td>MMBtu/hr</td>
<td>Million British Thermal Units per hour</td>
</tr>
<tr>
<td>MVAC</td>
<td>Motor Vehicle Air Conditioner</td>
</tr>
<tr>
<td>MW</td>
<td>Megawatt</td>
</tr>
<tr>
<td>NESHAP</td>
<td>National Emission Standards for Hazardous Air Pollutants</td>
</tr>
<tr>
<td>NOₓ (NOₓ)</td>
<td>Nitrogen Oxides</td>
</tr>
<tr>
<td>NSPS</td>
<td>New Source Performance Standards</td>
</tr>
<tr>
<td>OCGA</td>
<td>Official Code of Georgia Annotated</td>
</tr>
<tr>
<td>PM</td>
<td>Particulate Matter</td>
</tr>
<tr>
<td>PM₁₀ (PM₁₀)</td>
<td>Particulate Matter less than 10 micrometers in diameter</td>
</tr>
<tr>
<td>PPM (ppm)</td>
<td>Parts per Million</td>
</tr>
<tr>
<td>PSD</td>
<td>Prevention of Significant Deterioration</td>
</tr>
<tr>
<td>RACT</td>
<td>Reasonably Available Control Technology</td>
</tr>
<tr>
<td>RMP</td>
<td>Risk Management Plan</td>
</tr>
<tr>
<td>SIC</td>
<td>Standard Industrial Classification</td>
</tr>
<tr>
<td>SIP</td>
<td>State Implementation Plan</td>
</tr>
<tr>
<td>SO₂ (SO₂)</td>
<td>Sulfur Dioxide</td>
</tr>
<tr>
<td>USC</td>
<td>United States Code</td>
</tr>
<tr>
<td>VE</td>
<td>Visible Emissions</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile Organic Compound</td>
</tr>
</tbody>
</table>

### List of Permit Specific Abbreviations

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESP</td>
<td>Electrostatic Precipitator</td>
</tr>
<tr>
<td>PCBs</td>
<td>Polychlorinated Biphenyls</td>
</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Category</th>
<th>Description of Insignificant Activity/Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Mobile Sources</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Cleaning and sweeping of streets and paved surfaces</td>
<td></td>
</tr>
<tr>
<td><strong>Combustion Equipment</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>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 &quot;designated facility&quot; as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows:</td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste.</td>
<td></td>
</tr>
<tr>
<td>ii)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Less than 4 million BTU/hr heat input firing type 4 waste.</td>
<td></td>
</tr>
<tr>
<td>(Refer to 391-3-1-.03(10)(g)(2) for descriptions of waste types)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Open burning in compliance with Georgia Rule 391-3-1-.02 (5).</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Stationary engines burning:</td>
<td></td>
</tr>
<tr>
<td>i)</td>
<td>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</td>
<td>2</td>
</tr>
<tr>
<td>ii)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Trade Operations</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Maintenance, Cleaning, and Housekeeping</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Portable blast-cleaning equipment.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Non-Perchloroethylene Dry-cleaning equipment with a capacity of 100 pounds per hour or less of clothes.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Cold cleaners having an air/vapor interface of not more than 10 square feet and that do not use a halogenated solvent.</td>
<td>1</td>
</tr>
<tr>
<td>5.</td>
<td>Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.</td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Cleaning operations: Alkaline phosphate cleaners and associated cleaners and burners.</td>
<td></td>
</tr>
</tbody>
</table>
## INSIGNIFICANT ACTIVITIES CHECKLIST

<table>
<thead>
<tr>
<th>Category</th>
<th>Description of Insignificant Activity/Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Laboratories and Testing</strong></td>
<td>1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Pollution Control</strong></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td><strong>Industrial Operations</strong></td>
<td>1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.</td>
<td>2</td>
</tr>
</tbody>
</table>
|                                | 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:  
  i) Activity is performed indoors; &  
  ii) No significant fugitive particulate emissions enter the environment; &  
  iii) No visible emissions enter the outdoor atmosphere. | X        |
|                                | 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. |          |
### INSIGNIFICANT ACTIVITIES CHECKLIST

<table>
<thead>
<tr>
<th>Category</th>
<th>Description of Insignificant Activity/Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage Tanks and Equipment</strong></td>
<td>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.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.</td>
<td>12</td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>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.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.</td>
<td>&lt;99</td>
</tr>
<tr>
<td></td>
<td>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).</td>
<td>4</td>
</tr>
</tbody>
</table>

### INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

<table>
<thead>
<tr>
<th>Description of Emission Units / Activities</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not Applicable</td>
<td></td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>Description of Emissions Units / Activities</th>
<th>Number of Units (if appropriate)</th>
<th>Applicable Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Opacity Rule (b)</td>
</tr>
<tr>
<td>Not Applicable</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Description of Fuel Burning Equipment</th>
<th>Number of Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel burning equipment with a rated heat input capacity of less than 10 million BTU/hr burning only natural gas and/or LPG.</td>
<td>0</td>
</tr>
<tr>
<td>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.</td>
<td>0</td>
</tr>
<tr>
<td>Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.</td>
<td>0</td>
</tr>
</tbody>
</table>
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.


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.

7. The Clean Air Act (42 U.S.C. 7401 et seq).


ATTACHMENT D

U.S. EPA Acid Rain Program Phase II Permit Application
**Acid Rain Permit Application**

For more information, see instructions and 40 CFR 72.30 and 72.31.

This submission is: ~ new ~ revised X for Acid Rain permit renewal

### STEP 1
Identify the facility name, State, and plant (ORIS) code.

<table>
<thead>
<tr>
<th>Facility (Source) Name: McIntosh</th>
<th>State: GA</th>
<th>Plant Code: 6124</th>
</tr>
</thead>
</table>

### STEP 2
Enter the unit ID# for every affected unit at the affected source in column "a."

<table>
<thead>
<tr>
<th>Unit ID#</th>
<th>a</th>
<th>b</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)</td>
</tr>
<tr>
<td>CT1</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT2</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT3</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT4</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT5</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT6</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT7</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>CT8</td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Permit Requirements

(1) The designated representative of each affected source and each affected unit at the source shall:
   (i) Submit a complete Acid Rain permit application (including a compliance plan) under 40 CFR part 72 in accordance with the deadlines specified in 40 CFR 72.30; and
   (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain permit application and issue or deny an Acid Rain permit;
(2) The owners and operators of each affected source and each affected unit at the source shall:
   (i) Operate the unit in compliance with a complete Acid Rain permit application or a superseding Acid Rain permit issued by the permitting authority; and
   (ii) Have an Acid Rain Permit.

Monitoring Requirements

(1) The owners and operators and, to the extent applicable, designated representative of each affected source and each affected unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the source or unit, as appropriate, with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements

(1) The owners and operators of each source and each affected unit at the source shall:
   (i) Hold allowances, as of the allowance transfer deadline, in the source's compliance account (after deductions under 40 CFR 73.34(c)), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the affected units at the source; and
   (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An affected unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
   (i) Starting January 1, 2000, an affected unit under 40 CFR 72.6(a)(2); or
   (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an affected unit under 40 CFR 72.6(a)(3).
Sulfur Dioxide Requirements, Cont'd.

STEP 3, Cont'd.

(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.

(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.

(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements

The owners and operators of the source and each affected unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements

(1) The designated representative of an affected source that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.

(2) The owners and operators of an affected source that has excess emissions in any calendar year shall:
   (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
   (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements

(1) Unless otherwise provided, the owners and operators of the source and each affected unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
   (i) The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the
Facility (Source) Name (from STEP 1): McIntosh

submission of a new certificate of representation changing the designated representative;

STEP 3, Cont’d. Recordkeeping and Reporting Requirements, Cont’d.

(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,
(iv) Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an affected source and each affected unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each affected source and each affected unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an affected source (including a provision applicable to the designated representative of an affected source) shall also apply to the owners and operators of such source and of the affected units at the source.
(6) Any provision of the Acid Rain Program that applies to an affected unit (including a provision applicable to the designated representative of an affected unit) shall also apply to the owners and operators of such unit.
(7) Each violation of a provision of 40 CFR parts 72, 73, 74, 75, 76, 77, and 78 by an affected source or affected unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities

No provision of the Acid Rain Program, an Acid Rain permit application, an Acid Rain permit, or an exemption under 40 CFR 72.7 or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an affected source or affected unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating

**Effect on Other Authorities, Cont’d.**

- to applicable National Ambient Air Quality Standards or State Implementation Plans;
- (2) Limiting the number of allowances a source can hold; *provided*, that the number of allowances held by the source shall not affect the source’s obligation to comply with any other provisions of the Act;
- (3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

**Certification**

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

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<th>Name</th>
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ATTACHMENT E

CAIR PERMIT APPLICATION FOR SO$_2$ and NO$_X$
ANNUAL TRADING PROGRAMS
CAIR Permit Application
(for sources covered under a CAIR SIP)

For more Information, refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321, and 96.322

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Standard Requirements

(a) Permit Requirements.

(1) The CAIR designated representative of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) required to have a title V operating permit at the source shall:
   (i) Submit to the permitting authority a complete CAIR permit application under §96.122, §96.222, and §96.322 (as applicable) in accordance with the deadlines specified in §96.121, §96.221, and §96.321 (as applicable); and
   (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review a CAIR permit application and issue or deny a CAIR permit.

(2) The owners and operators of each CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) required to have a title V operating permit at the source shall have a CAIR permit issued by the permitting authority under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for the source and operate the source and the unit in compliance with such CAIR permit.

(3) Except as provided in subpart II, III, and IIII (as applicable) of 40 CFR part 96, the owners and operators of a CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) that is not otherwise required to have a title V operating permit and each CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable) that is not otherwise required to have a title V operating permit are not required to submit a CAIR permit application, and to have a CAIR permit, under subpart CC, CCC, and CCCC (as applicable) of 40 CFR part 96 for such CAIR NOx source, CAIR SO2 source, and CAIR NOx Ozone Season source (as applicable) and such CAIR NOx unit, CAIR SO2 unit, and CAIR NOx Ozone Season unit (as applicable).
(b) Monitoring, reporting, and recordkeeping requirements.

1. The owners and operators, and the CAIR designated representative, of each CAIR NO₂ source, CAIR SO₂ source, and CAIR NO₃ Ozone Season source (as applicable) and each CAIR NO₂ unit, CAIR SO₂ unit, and CAIR NO₃ Ozone Season unit (as applicable) at the source shall comply with the monitoring, reporting, and recordkeeping requirements of subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96.

2. The emissions measurements recorded and reported in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 96 shall be used to determine compliance by each CAIR NO₂ source, CAIR SO₂ source, and CAIR NO₃ Ozone Season source (as applicable) with the CAIR NOX emissions limitation, CAIR SO₂ emissions limitation, and CAIR NOX Ozone Season emissions limitation (as applicable) under paragraph (c) of §96.106, §96.205, and §96.306 (as applicable).

(c) Nitrogen oxides emissions requirements.

1. As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO₂ source and each CAIR NO₂ unit at the source shall hold, in the source's compliance account, CAIR NO₂ allowances available for compliance deductions for the control period under §96.154(a)(6) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NO₂ units at the source, as determined in accordance with subpart HH of 40 CFR part 96.

2. A CAIR NO₂ unit shall be subject to the requirements under paragraph (c)(1) of §96.106 for the control period starting on the later of January 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.170(b)(1), or (2)(A) and (C).

3. A CAIR NO₂ unit shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.106, for a control period in a calendar year before the year for which the CAIR NO₂ allowance was allocated.

4. CAIR NO₂ allowances shall be held in, deducted from, or transferred into or among CAIR NO₂ Allowance Tracking System accounts in accordance with subparts FF, GG, and III of 40 CFR part 96.

5. CAIR NO₂ allowances are a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NO₂ Annual Trading Program. No provision of the CAIR NO₂ Annual Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

6. A CAIR NO₂ allowance does not constitute a property right.

7. Upon recordation by the Administrator under subpart EE, FF, GG, or III of 40 CFR part 96, any allocation, transfer, or deduction of a CAIR NO₂ allowance to or from a CAIR NO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR NO₂ unit.

Sulfur dioxide emission requirements.

1. As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent of CAIR SO₂ allowances available for compliance deductions for the control period under §96.254(a) and (b) not less than the tons of sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with subpart HHH of 40 CFR part 96.

2. A CAIR SO₂ unit shall be subject to the requirements under paragraph (c)(1) of §96.206 for the control period starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under §96.270(b)(1), or (2), or (3) and for each control period thereafter.

3. A CAIR SO₂ allowance shall be deducted, for compliance with the requirements under paragraph (c)(1) of §96.206, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.

4. CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with subparts FF, GG, and III of 40 CFR part 96.

5. A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.205 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

6. A CAIR SO₂ allowance does not constitute a property right.

7. Upon recordation by the Administrator under subpart FF, GG, or III of 40 CFR part 96, any allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ source's compliance account is incorporated automatically in any CAIR permit of the source that includes the CAIR SO₂ unit.

Nitrogen oxides ozone season emissions requirements.

1. As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOX Ozone Season source and each CAIR NOX Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOX Ozone Season allowances available for compliance deductions for the control period under §96.354(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOX Ozone Season units at the source, as determined in accordance with subpart HHHH of 40 CFR part 96.

2. A CAIR NOX Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of §96.306 for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under §96.370(b)(1), or (2), (3), (7), and for each control period thereafter.

3. A CAIR NOX Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of §96.306, for a control period in a calendar year before the year for which the CAIR NOX Ozone Season allowance was allocated.

4. CAIR NOX Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOX Ozone Season Allowance Tracking System accounts in accordance with subparts FFFF, GGGG, and IIII of 40 CFR part 96.

5. A CAIR NOX allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOX Ozone Season Trading Program. No provision of the CAIR NOX Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or an exemption under §96.305 and no provision of law shall be construed to limit the authority of the State or the United States to terminate or limit such authorization.

6. A CAIR NOX allowance does not constitute a property right.

7. Upon recordation by the Administrator under subpart EE, FFFF, GGGG, or IIII of 40 CFR part 96, any allocation, transfer, or deduction of a CAIR NOX Ozone Season allowance to or from a CAIR NOX Ozone Season source's compliance account is incorporated automatically in any CAIR permit of the source.
STEP 3, continued

(d) Excess emissions requirements.
If a CAIR NO\textsubscript{x} source emits nitrogen oxides during any control period in excess of the CAIR NO\textsubscript{x} emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO\textsubscript{x} unit at the source shall surrender the CAIR NO\textsubscript{x} allowances required for deduction under §96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR SO\textsubscript{2} source emits sulfur dioxide during any control period in excess of the CAIR SO\textsubscript{2} emissions limitation, then:

(1) The owners and operators of the source and each CAIR SO\textsubscript{2} unit at the source shall surrender the CAIR SO\textsubscript{2} allowances required for deduction under §96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

If a CAIR NO\textsubscript{x} Ozone Season source emits nitrogen oxides during any control period in excess of the CAIR NO\textsubscript{x} Ozone Season emissions limitation, then:

(1) The owners and operators of the source and each CAIR NO\textsubscript{x} Ozone Season unit at the source shall surrender the CAIR NO\textsubscript{x} Ozone Season allowances required for deduction under §96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable State law; and

(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this subpart, the Clean Air Act, and applicable State law.

(e) Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) and each CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, by written authority of the Administrator.

(i) The certificate of representation under §96.113, §96.213, and §96.313 (as applicable) for the CAIR designated representative for the source, each CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of submission of a new certificate of representation under §96.113, §96.213, and §96.313 (as applicable) changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 98, provided to the extent that subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 98 provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable).

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable) or to demonstrate compliance with the requirements of the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable).

(2) The CAIR designated representative of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) and each CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) at the source shall submit the reports required under the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable) including those under subparts HH, HHH, and HHHH (as applicable) of 40 CFR part 98.

(f) Liability.

(1) Each CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) and each NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) shall meet the requirements of the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable).

(2) Any provision of the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable) that applies to a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) or the CAIR designated representative of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) shall apply to the owners and operators of such source and of the CAIR NO\textsubscript{x} units, CAIR SO\textsubscript{2} units, and CAIR NO\textsubscript{x} Ozone Season units (as applicable) at the source.

(3) Any provision of this CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable) that applies to a CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) shall apply to the owners and operators of such unit. 


(g) Effect on Other Authorities.
No provision of the CAIR NO\textsubscript{x} Annual Trading Program, CAIR SO\textsubscript{2} Trading Program, and CAIR NO\textsubscript{x} Ozone Season Trading Program (as applicable), a CAIR permit application, a CAIR permit, or an exemption under § 96.105, §96.205, and §96.305 (as applicable) shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO\textsubscript{x} source, CAIR SO\textsubscript{2} source, and CAIR NO\textsubscript{x} Ozone Season source (as applicable) or CAIR NO\textsubscript{x} unit, CAIR SO\textsubscript{2} unit, and CAIR NO\textsubscript{x} Ozone Season unit (as applicable) from compliance with any other provision of the applicable, approved State Implementation plan, a federally enforceable permit, or the Clean Air Act.

Certification

I am authorized to make this submission on behalf of the owners and operators of the source or units for which this submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Charles H. Huling
Name

Signature

12/12/2008
Date

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DEC 18 2008
AIR PROTECTION BRANCH