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PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

To construct and operate flue gas desulfurization (scrubber) systems (APCD Nos. FGD1, FGD2, FGD3 and FGD4) and selective catalytic reduction systems (APCD Nos. SCR1, SCR2, SCR3, and SCR4) on steam generating units SG01, SG02, SG03, and SG04 in accordance with Georgia Rule (sss) requirements.

Reduce the frequency of particulate matter testing in Condition 4.2.1 due to changes in operation associated with the scrubber installations.

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

3.1 Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements / Standards	Corresponding Permit Conditions	ID No.	Description
SG01	Steam Generator Unit 1	40 CFR 60 Subpart D, 391-3-1-.02(2)(d), 391-3-1-.02(2)(g), 391-3-1-.02(2)(jjj), 391-3-1-.02(2)(sss), Acid Rain	3.2.1, 3.2.2, 3.2.4, 3.3.1, 3.3.2, 3.3.3, 3.3.4, 3.3.5, 3.4.6, 3.4.7, 3.4.8, 3.4.9, 3.4.10, 3.4.13, 3.4.14 , Section 7.9, and Attachment D	SCR1 EP01 BH01 FGD1	Selective Catalytic Reduction ESP Baghouse with PAC Flue Gas Desulfurization
SG02	Steam Generator Unit 2	40 CFR 60 Subpart D, 391-3-1-.02(2)(d), 391-3-1-.02(2)(g), 391-3-1-.02(2)(jjj), 391-3-1-.02(2)(sss), Acid Rain	See SG01	SCR2 EP02 BH02 FGD2	Selective Catalytic Reduction ESP Baghouse with PAC Flue Gas Desulfurization
SG03	Steam Generator Unit 3	40 CFR 60 Subpart D, 391-3-1-.02(2)(d), 391-3-1-.02(2)(g), 391-3-1-.02(2)(jjj), 391-3-1-.02(2)(sss), Acid Rain	See SG01	SCR3 EP03 BH03 FGD3	Selective Catalytic Reduction ESP Baghouse with PAC Flue Gas Desulfurization
SG04	Steam Generator Unit 4	40 CFR 60 Subpart D, 391-3-1-.02(2)(d), 391-3-1-.02(2)(g), 391-3-1-.02(2)(jjj), 391-3-1-.02(2)(sss), Acid Rain	See SG01	SCR4 EP04 BH04 FGD4	Selective Catalytic Reduction ESP Baghouse with PAC Flue Gas Desulfurization
SB01	Start-up Boiler Unit 1	391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3	none	n/a
SB02	Start-up Boiler Unit 2	391-3-1-.02(2)(d) 391-3-1-.02(2)(g)	See SB01	none	n/a
CHS	Coal Handling System	40 CFR 60 Subpart Y, 391-3-1-.02(2)(n)	3.3.6, 3.4.4.a	none	n/a
AHS	Ash Handling System	391-3-1-.02(2)(n)	3.4.4.b, 3.4.5	none	n/a
MHS	Materials Handling System	391-3-1-02(2)(e) 391-3-1-.02(2)(n) 40 CFR 60 Subpart A 40 CFR 60 Subpart OOO	3.3.7, 3.4.4, 3.4.5, 3.4.12	none	n/a

* Generally Applicable Requirements contained in this permit may apply also to emission units listed above.

3.2 Equipment Emission Caps and Operating Limits

MODIFIED CONDITIONS

3.2.5 Deleted.

3.2.6 Deleted.

3.3 Equipment Federal Rule Standards

NEW CONDITION

3.3.7 The Permittee shall comply with the provisions of 40 CFR 60 Subpart OOO, "Standards of Performance of Nonmetallic Mineral Processing Plants" for the affected portion of the materials handling system (Emission Unit ID MHS). The affected portion shall include any grinding mill, screening operation, belt conveyor, and storage bin associated with the limestone handling process. In particular, the Permittee shall not discharge, or cause the discharge, into the atmosphere,
[40 CFR 60 Subpart OOO]

- a. from any crusher, at which a capture system is not used, any fugitive emissions which exhibit greater than 12 percent opacity.
- b. from any stack, emissions which contain particulate matter in excess of 0.032 g/dscm (0.014 grains/dscf).
- c. from any screening operation, belt conveyor transfer point, bagging operation, storage bin, enclosed truck or railcar loading station, or from any other affected equipment any fugitive emissions which exhibit greater than 7 percent opacity.
- d. any visible emissions from;
 - i. wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin and,
 - ii. screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

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

- e. visible fugitive emissions from the building may not exhibit greater than 7 percent opacity.

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- f. emissions from a powered building vent which contain particulate matter in excess of 0.032 g/dscm (0.014 grains/dscf).

*Note: Unloading of nonmetallic minerals from movable vehicles designed to transport nonmetallic minerals from one location to another, including but not limited to: trucks, front end loaders, skip hoists, and railcars into any screening operation, feed hopper, or crusher is exempt from the requirements of this condition.
[40 CFR 60 Subpart OOO, 40 CFR 60.672(d)]*

3.4 Equipment SIP Rule Standards

MODIFIED CONDITIONS

Coal and Ash Handling Requirements

- 3.4.4 The Permittee shall take all reasonable precautions to prevent fugitive dust from becoming airborne from the following operations:

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

- a. Coal handling system (Emission Unit ID CHS)
- b. Ash handling system (Emission Unit ID AHS)
- c. **Materials handling system (Emission Unit ID MHS)**

- 3.4.5 The percent opacity from the ash handling system (Emission Unit ID AHS) **and materials handling system (Emission Unit ID MHS)** shall not equal or exceed 20 percent.

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

NEW CONDITIONS

- 3.4.12 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the Material Handling System (Emission Unit ID. No. MHS) any gases which contain particulate matter in excess of the rate derived from the equation noted below:

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

- a. For process input weight rate up to and including 30 tons per hour:
 $E = 4.1P^{0.67}$; or
- b. For process input weight rate above 30 tons per hour:
 $E = 55P^{0.11} - 40$

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

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3.4.13 Effective June 1, 2009 for steam generating units SG02 and SG03, effective December 31, 2009 for steam generating unit SG01, and effective April 30, 2010 for steam generating unit SG04, the Permittee shall not operate each unit unless such source is equipped and operated with sorbent injection and a baghouse, except the Permittee is not required to operate the required control technology under the following conditions:

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

- a. Restarting an EGU when all EGUs at a facility are down and off-site power is not available (also know as a “Black Start”).
- b. Periods of startup of an EGU in accordance with best operational practices to minimize emissions.
- c. Periods of shutdown of an EGU in accordance with best operational practices to minimize emissions.
- d. Periods of scheduled and/or preventative maintenance of control technology equipment if such maintenance cannot reasonably be performed during a scheduled outage of the respective EGU.
- e. Periods of malfunction of EGU and/or control technology equipment provided that such periods are consistent with the requirements of paragraph 391-3-1-.02(2)(a)7.
- f. Periods when the owner/operator is required to conduct the Relative Accuracy Test Audit on the Continuous Emissions Monitoring System located on the bypass stack pursuant to 40 CFR Part 75, Appendix B.
- g. Periods when the owner/operator is required to conduct any performance tests on the bypass stack as required by state or federal air quality rules, air quality operating permits, or as ordered by the Division.**
- h. Division approved periods of research and development of emission control technologies, provided that the unit does not exceed other applicable emission limits. For purposes of this subparagraph, the owner/operator shall submit a request for approval under this subparagraph at least 120 days prior to such date as well as including the following items: (1) length of time of research and development (R&D) period; (2) identification of steps to take to minimize emissions in accordance with best operational practices during R&D period.
- i. Any other occasion not covered by subparagraph a. through h., as approved by the Division.

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3.4.14 Effective December 31, 2011 for steam generating unit SG03, effective December 31, 2012 for steam generating unit SG04, effective December 31, 2013 for steam generating unit SG02, and effective December 31, 2014 for steam generating unit SG01, the Permittee shall not operate each unit unless such source is equipped and operated with selective catalytic reduction, flue gas desulfurization, sorbent injection and a baghouse; provided that the owner or operator is not required to operate the selective catalytic reduction system during the non-ozone season months of January through April and October through December of each year, and except the Permittee is not required to operate the required control technology under the following conditions:

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

- a. Restarting an EGU when all EGUs at a facility are down and off-site power is not available (also know as a “Black Start”).
- b. Periods of startup of an EGU in accordance with best operational practices to minimize emissions.
- c. Periods of shutdown of an EGU in accordance with best operational practices to minimize emissions.
- d. Periods of scheduled and/or preventative maintenance of control technology equipment if such maintenance cannot reasonably be performed during a scheduled outage of the respective EGU.
- e. Periods of malfunction of EGU and/or control technology equipment provided that such periods are consistent with the requirements of paragraph 391-3-1-.02(2)(a)7.
- f. Periods when the owner/operator is required to conduct the Relative Accuracy Test Audit on the Continuous Emissions Monitoring System located on the bypass stack pursuant to 40 CFR Part 75, Appendix B.
- g. Periods when the owner/operator is required to conduct any performance tests on the bypass stack as required by state or federal air quality rules, air quality operating permits, or as ordered by the Division.**
- h. Division approved periods of research and development of emission control technologies, provided that the unit does not exceed other applicable emission limits. For purposes of this subparagraph, the owner/operator shall submit a request for approval under this subparagraph at least 120 days prior to such date as well as including the following items: (1) length of time of research and development (R&D) period; (2) identification of steps to take to minimize emissions in accordance with best operational practices during R&D period.
- i. Any other occasion not covered by subparagraph a. through h., as approved by the Division.

PART 4.0 REQUIREMENTS FOR TESTING**4.2 Specific Testing Requirements**

MODIFIED CONDITION

- 4.2.1 The Permittee shall conduct the following performance tests on the following emissions units at the frequency specified:
- a. **Particulate matter tests on Steam Generating Units 1, 2, 3, and 4 (Emission Unit IDs SG01, SG02, SG03 and SG04) scrubber bypass stacks (ST01, ST02, ST03, and ST04). The tests shall be conducted for each unit within 30 days following 8760 operating hours or 60 months for the unit, whichever comes first, following issuance of the permit amendment.**
[391-3-1-.02(6)(b)1(i)]
 - b. **Particulate matter tests on Steam Generating Units 1, 2, 3, and 4 (Emission Unit IDs SG01, SG02, SG03 and SG04) scrubber stacks (ST05, ST06, ST07, and ST08). The tests shall be conducted once every 60 months or as requested by the Division.**
[391-3-1-.02(6)(b)1(i)]

NEW CONDITIONS

- 4.2.2 Within 60 days after achieving the maximum production rate at which the sources will be operated, but no later than 180 days after the initial startup of the listed equipment, the Permittee shall conduct performance test(s) on the materials handling system (Emission Unit ID MHS) to determine compliance with the emissions limitations contained in Condition 3.3.7 of this permit. Testing shall be conducted according to the methods and procedures contained in 40 CFR 60.675.
[40 CFR 60.8, 40 CFR 60 Subpart OOO]
- 4.2.3 The Permittee shall conduct a repeat performance test(s) once every 5 years on the materials handling system (Emission Unit ID MHS) to ensure ongoing compliance with the emissions limitations contained in Condition 3.3.7 of this permit. Testing shall be conducted according to the methods and procedures contained in 40 CFR 60.675.
[40 CFR 60.8, 40 CFR 60 Subpart OOO]

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)**5.2 Specific Monitoring Requirements**

MODIFIED CONDITION

- 5.2.1 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. A Continuous Opacity Monitoring System (COMS) on Steam Generating Units 1, 2, 3, and 4 (Emission Unit IDs SG01, SG02, SG03, and SG04) **located in each liner of the scrubber bypass stacks (ST01, ST02, ST03, and ST04).**
 - b. A Continuous Emissions Monitoring System (CEMS), for the measurement of nitrogen oxides concentration (ppm) and diluent concentrations (either Oxygen or Carbon Dioxide, percent), on each steam generating unit with Emission Unit IDs SG01, SG02, SG03, and SG04 **located in each liner of the scrubber bypass stacks (ST01, ST02, ST03, and ST04) and in each liner of the scrubber stacks (ST05, ST06, ST07, and ST08).** The output of the CEMS shall be expressed in terms of pounds per million British thermal units (lb/MMBtu).

NEW CONDITIONS

- 5.2.17 The Permittee shall perform a check of visible emissions from all affected emissions points as identified in Condition 3.3.7 from the materials handling system (Emission Unit ID MHS), and on the limestone railcar unloading system. The Permittee shall retain a record of the daily visible emissions (VE) log suitable for inspection and submittal. The check shall be conducted at least once for each day or portion of each day of operation using procedures a through d below except when atmospheric condition or sun positioning prevent any opportunity to perform the daily VE check. Any operational day when atmospheric conditions or sun position prevent a daily reading shall be reported as monitor downtime in the report required by Condition 6.1.4. [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]
- a. Determine, in accordance with the procedures specified in paragraph d of this condition, if visible emissions are present at the discharge point to the atmosphere from each of the sources and record the results in the daily (VE) log. For sources that exhibit visible emissions, the Permittee shall comply with paragraph b or c of this condition.

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- b. For each source determined to be emitting visible emissions, the Permittee shall determine whether the emissions equal or exceed the opacity action level using the procedure specified in paragraph d of this condition, except that the person performing the determination shall have received additional training acceptable to the Division to recognize the appropriate opacity level and the determination shall cover a period of three minutes. The opacity action level is 7 percent for sources subject to NSPS and 10 percent for all other sources. The results shall be recorded in the daily (VE) log. For sources that exhibit visible emissions of greater than or equal to the opacity action level, the Permittee shall comply with paragraph c of this condition.
 - c. For each source that requires action in accordance with paragraphs a or b of this condition, the Permittee shall determine the cause of the visible emissions and correct the problem in the most expedient manner possible. The Permittee shall note the cause of the visible emissions, the pressure drop or any other pertinent operating parameters, and the corrective action taken in the maintenance log.
 - d. The person performing the determination shall stand at a distance of at least 15 feet which is sufficient to provide a clear view of the plume against a contrasting background with the sun in the 140° sector at his/her back. Consistent with this requirement, the determination shall be made from a position such that the line of vision is approximately perpendicular to the plume direction. Only one plume shall be in the line of sight at any time when multiple stacks are in proximity to each other.
- 5.2.18 Within 180 days of startup of the scrubbers FGD1, FGD2, FGD3, and FGD4, the Permittee shall conduct testing to determine compliance indicators(s) and submit an updated Compliance Assurance Monitoring (CAM) Plan for the control of particulate emissions from Steam Generating Units 1, 2, 3, and 4 (Emission Unit IDs SG01, SG02, SG03 and SG04) to the scrubber stack liners (ST05, ST06, ST07, and ST08).

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

MODIFIED CONDITION

6.1.7 For the purposes 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)(i)]

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 consentient with any averaging period specified for averaging the results of the monitoring)

vii. **For sources specified in Condition 5.2.17, any required daily determination of visible emissions for which visible emissions are above the opacity action levels specified in Condition 5.2.17.b that is not corrected within 24 hours of the observation.**

6.2 Specific Record Keeping and Reporting Requirements

NEW CONDITION

40 CFR 60 Subpart 000

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

Attachments

- A. List of Standard Abbreviations and List of Permit Specific Abbreviations

