

AIR QUALITY PERMIT

Permit No.
4911-099-0030-P-01-0

Effective Date
May 14, 2007

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

Longleaf Energy Associates, LLC
C/o LS Power Development, LLC
Two Tower Center, 11th Floor
East Brunswick, New Jersey 08816

Is issued a Permit for the following: To construct and operate a nominal 1,200 MW coal fired generating station. The facility would consist of two coal (PC) fired boilers, a 175 MMBtu/hr auxiliary boiler, two steam turbines, one 1500 kW emergency generator, one 450 Hp diesel fueled fire pump, one distillate fuel oil storage tank, and cooling towers. The facility will be designed to burn Powder River Basin (PRB) coal and/or Central Appalachian coal. In addition, the facility may burn small quantities of clarifier sludge produced at Georgia Pacific's nearby Cedar Springs containerboard mill. Ultra low sulfur distillate fuel oil will be used as the start-up fuel for the two PC units and for operation of the auxiliary boiler, emergency equipment.

Facility location: Longleaf Energy Station
State Highway 370
Hilton, Georgia 31723 (Early County)

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

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in the application dated **November 22, 2004 [Application No. 15846]**, additional information listed in Note A, and supporting data entered therein or attached thereto, or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditions upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **29** pages, which **29** pages are a part of this Permit.

Director
Environmental Protection Division

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NOTE A

Subsequent Submittals of Application No. 15846 dated November 22, 2004

Date	Description
November 22, 2004	Original Application Submittal
March 30, 2005	Modification of HF and HCl Emissions and PSD Preconstruction Monitoring Applicability
April 13, 2005	Docket Information on EPA HF/HCl Removal Memo
July 12, 2005	Response to EPD letter requesting clarifications to the original application
August 15, 2005	Longleaf provided answers to the remaining concerns and updated BACT determinations for pollutants which were influenced by the two different types of coal - i.e. SO ₂ , Lead, HF, and H ₂ SO ₄ .
February 23, 2006	Updated SO ₂ BACT limits with justification.
February 28, 2006	Updated BACT analysis for NO _x and PM/PM ₁₀ to include economics analysis for top technologies
March 10, 2006	Longleaf submitted updated BACT analysis for auxiliary boiler.

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NOTE B

FACILITY DESCRIPTION

Emission Units		Air Pollution Control Devices	
ID No.	Description	ID No.	Description
Combustion Sources			
S01	PC-Fired Boiler – 600 MW	LN1 CR1 DS1 F01	Low NOx Burners/Over-fire Air Selective Catalytic Reduction Dry Scrubber Fabric Filter Baghouse
S02	PC-Fired Boiler – 600 MW	LN2 CR2 DS2 F02	Low NOx Burners/Over-fire Air Selective Catalytic Reduction Dry Scrubber Fabric Filter Baghouse
S03	Auxiliary Boiler – 175 MMBtu/hr	LN3	Low NOx Burner/Flue Gas Recirculation
Coal Handling Particulate Sources			
S06	Railcar Unloading Station	N/A	Water sprays and partial enclosure
S07	Stackout Conveyor # 1	N/A	Partial enclosure
S08	Stackout Transfer Point #1	N/A	Partial enclosure
S09	Stackout Conveyor #2	N/A	Partial enclosure
S10	Stackout Transfer Point #2	N/A	Telescopic chute
S11	Active Pile #1	N/A	Water Sprays
S12	Active Pile #2	N/A	Water Sprays
S13	Active Pile Reclaim	N/A	Partial enclosure
S14	Reclaim Conveyor #1	N/A	Partial enclosure

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Emission Units		Air Pollution Control Devices	
ID No.	Description	ID No.	Description
S15	Transfer Tower	N/A	Partial enclosure and fabric filter
S16	Reclaim Conveyor #2	N/A	Partial enclosure
S17	Tripper Deck	N/A	Partial enclosure and fabric filter
S18	Inactive Pile	N/A	Water spray and chemical dust suppression
Ash Management Particulate Sources			
S19	Submerged Chain Conveyors	N/A	Partial enclosure and material moisture content
S20	Bottom Ash Transfer Point #1	N/A	Material moisture content
S21	Bottom Ash Conveyor	N/A	Partial enclosure and material moisture content
S22	Bottom Ash Bunker	N/A	Partial enclosure and material moisture content
S23	Bottom Ash Transfer Point #2	N/A	Material moisture content
S24	Bottom Ash Truck	N/A	Material moisture content
S25	Bottom Ash Transfer Point #3	N/A	Material moisture content
S26	Fly Ash Silo	N/A	Fabric Filter
S27	Fly Ash Mixing Station	N/A	Fabric Filter
S28	Fly Ash Transfer Point #1	N/A	Material moisture content
S29	Fly Ash Truck	N/A	Material moisture content
S30	Fly Ash Transfer Point #2	N/A	Material moisture content
S31	On-Site Disposal Facility	N/A	Water sprays and chemical suppressant

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Emission Units		Air Pollution Control Devices	
ID No.	Description	ID No.	Description
Lime Management Particulate Sources			
S35	Lime Railcar Unloading Station	N/A	Partial enclosure and fabric filter
S36	Lime Conveyor	N/A	Partial enclosure
S37	Lime Silo	N/A	Partial enclosure and fabric filter
Roadway Particulate Sources			
S38	Unpaved Roadway Travel	N/A	Gravel or chemical dust suppressant and water sprays
S39	Paved Roadway Travel	N/A	Water sprays and/or sweeping
Cooling Tower Emissions			
S40	Unit 1 Cooling Tower	N/A	Drift eliminators
S41	Unit 2 Cooling Tower	N/A	Drift eliminators
Emergency Diesel Fired Engines			
S42	1500 kW Diesel Generator	N/A	N/A
S43	450 hp Diesel Firewater Pump	N/A	N/A
Fuel Storage Tanks			
S44	330,000 Gallon Distillate Oil Storage Tank	N/A	N/A
S45	15,000 Gallon Distillate Fuel Storage Tank	N/A	N/A
S46	2,000 Gallon Diesel Fuel Storage Tank	N/A	N/A
S47	500 Gallon Diesel Fuel Storage Tank	N/A	N/A
S48	150 Gallon Unleaded Gasoline Storage Tank	N/A	N/A

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1.0 General Requirements

- 1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall to the extent practicable maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
- 1.2 The Permittee shall cause to be conducted a performance test at any specified emission unit when so directed by the Environmental Protection Division (“Division”). The test results shall be submitted to the Division within 60 days of the completion of the testing. Any tests shall be performed and conducted using methods and procedures that have been previously specified or approved by the Division.
[391-3-1-.02(6)(b)1(i)]
- 1.3 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, and shall provide with the notification a test plan in accordance with Division guidelines.
[391-3-1-.02(3)(a)]
- 1.4 Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit, for the purpose of 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)]
- 1.5 The Permittee shall comply with all applicable provisions of National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR 61, Subpart E – “National Emission Standard for Mercury” the when PC-Fired Boilers, S01 and S02, are firing clarifier sludge. [40 CFR 61.50]
- 1.6 The Permittee shall comply with all applicable provisions of the National Emission Standard for Hazardous Air Pollutants (NESHAP) as found in 40 CFR Part 63, in Subpart A – “General Provisions”.
[40 CFR 63, Subpart A]
- 1.7 The Permittee shall comply with all applicable provisions of 40 CFR 63, Subpart DDDDD – “NESHAP for Industrial/Commercial/Institutional Boilers and Process Heaters” for the auxiliary boiler, S03. In the event of any discrepancy between the terms of this Permit and 40 CFR Part 63, Subpart DDDDD, the terms of 40 CFR Part 63, Subpart DDDDD shall control.
[40 CFR 63.2231]

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- 1.8 The Permittee shall comply with all applicable provisions of the New Source Performance Standard (NSPS) as found in 40 CFR Part 60, in Subpart A – “General Provisions”.
[40 CFR 60, Subpart A]
- 1.9 The Permittee shall comply with all applicable provisions of the New Source Performance Standard (NSPS) as found in 40 CFR Part 60, in Subpart Da – “Standards of Performance for Electric Utility Steam Generating Units for which Construction is Commenced After September 18, 1978” for PC-Fired Boilers, S01 and S02.
[40 CFR 60, Subpart Da]
- 1.10 The Permittee shall comply with all applicable provisions of the New Source Performance Standard (NSPS) as found in 40 CFR Part 60, in Subpart Db – “Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units” for the auxiliary boiler, S03.
[40 CFR 60, Subpart Db]
- 1.11 The Permittee shall comply with all applicable provisions of the New Source Performance Standard (NSPS) as found in 40 CFR Part 60, in Subpart Y – “Standards of Performance for Coal Preparation Plants” for the coal conveying and processing equipment and the coal silos.
[40 CFR 60, Subpart Y]
- 1.12 The Permittee shall comply with all applicable provisions of 40 CFR 63, Subpart ZZZZ – “National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines” for the emergency diesel generator, S42 and emergency firewater pump, S43. In the event of any discrepancy between the terms of this Permit and 40 CFR 63, Subpart ZZZZ, the terms of 40 CFR 63, Subpart ZZZZ shall control.

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2.0 Allowable Emissions

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.

- 2.1 The Permittee shall commence construction within 18 months of the date of issuance of this Permit. In the event that construction of any of these units has not commenced in the time frame specified, and absent approval by the Division for an extension of the commencement date, this Permit shall become null and void with respect to that unit and all units yet to be constructed. For purposes of this Permit, the definition of “commence” is given in 40 CFR 52.21(b)(9). [40 CFR 52.21(r)]
- 2.2 The construction of PC-Fired Boilers S01 and S02, Auxiliary Boiler S03, Emergency Generator S42, Diesel Fire-water pump S43, Coal handling particulate sources (Emission Unit IDs S06 – S18), Ash management particulate sources (Emission Unit IDs S19 – S31), Lime management particulate sources (Emission Unit IDs S35 – S37), Cooling Towers (Emission Unit IDs S40 and S41), and Fuel Storage Tanks (Emission Unit IDs S44 – S48) shall be completed no later than December 31, 2013. In the event that construction of any of these units is not completed by the date specified, and absent approval by the Division for an extension of the completion date, this Permit shall become null and void with respect to that unit and all units yet to be constructed. The Permit will remain in full force and effect with regard to any units for which construction has been completed by the applicable construction deadline. [40 CFR 52.21(r)(2)]
- 2.3 The Permittee shall install and operate, as BACT for NO_x on each PC-Fired Boiler, S01 and S02, dry low NO_x burners, Over-fire Air and Selective Catalytic Reduction. [40 CFR 52.21(j)]
- 2.4 The Permittee shall install and operate, as BACT for CO and VOC on each PC-Fired Boiler, S01 and S02, good combustion practices. [40 CFR 52.21(j)]
- 2.5 The Permittee shall install and operate, as BACT for SO₂, HF, and H₂SO₄ on each PC-Fired Boiler, S01 and S02, a dry scrubber. [40 CFR 52.21(j)]
- 2.6 The Permittee shall install and operate, as BACT for PM/PM₁₀ and Lead on each PC-Fired Boiler, S01 and S02, a fabric filter baghouse. [40 CFR 52.21(j)]
- 2.7 The Permittee shall install and operate, as BACT for Mercury on each PC-Fired Boiler, S01 and S02, Halogenated Activated Carbon Injection. [40 CFR 52.21(j)]
- 2.8 The Permittee shall install and operate, as BACT for NO_x on Auxiliary Boiler, S03, dry low NO_x burners and Flue Gas Recirculation (FGR). [40 CFR 52.21(j)]

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- 2.9 The Permittee shall install and operate, as BACT for Fly Ash Silo, S26, and Lime Silo, S37, enclosures and vent filters.
[40 CFR 52.21(j)]
- 2.10 Except as provided in Condition No. 2.12 the Permittee shall primarily fire PRB Coal, CAPP Coal, and/or clarifier sludge in PC-Fired Boiler, S01 and S02. Blending of other sources of bituminous coal and/or pet coke shall be permitted subject to Conditions 2.11, 2.14 and 2.15.
[40 CFR 52.21(j); and 391-3-1-.02(2)(g)(subsumed)]
- 2.11 The Permittee shall not fire any fuel in PC-Fired Boilers, S01 and S02, that contains greater than 3.0 percent sulfur, by weight.
[391-3-1-.02(2)(g)2]
- 2.12 The Permittee shall fire only ultra low sulfur diesel fuel, which meets the specifications defined in Condition 2.13, in startup in PC-Boiler, S01 and S02, in auxiliary boiler S03, emergency generator S42 and firewater pump S43 unless ultra low sulfur diesel fuel is not commercially available. In that event, the Permittee shall use low sulfur diesel fuel which shall not contain more than 0.05 percent sulfur by weight.
[40 CFR 52.21(j); 40 CFR 60.333(b)(subsumed) and 391-3-1-.02(2)(g) (subsumed)]
- 2.13 Ultra low sulfur diesel (ULSD) fuel oil fired in startup in PC-Boiler, S01 and S02, in auxiliary boiler S03, emergency generator S42 and firewater pump S43 shall not contain more than 0.0015 percent sulfur by weight [which is equivalent to 15 ppm as defined in 40 CFR 80.520-527]. [40 CFR 52.21(j); 391-3-1-.02(2)(g) (subsumed)]
- 2.14 The Permittee shall not fire clarifier sludge in PC-Fired Boilers, S01 and S02, that contains greater than 1.0 percent of the potential total heat input or 61.4 MMBtu/hr in any calendar day.

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- 2.15 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from each PC-Fired Boiler, S01 and S02, any gases which
- a. Contain nitrogen oxides (NO_x) in excess of 0.07 lb/MMBtu on a 30-day rolling average.
[40 CFR 52.21(j); 40 CFR 60.44Da(e)(1) (subsumed)]
 - b. Contain nitrogen oxides (NO_x) in excess of 0.05 lb/MMBtu on a 12-month rolling average. This condition becomes effective 6 months after initial start-up of each PC-Fired boiler, S01 and S02, absent approval by the Division for an extension of this date.
[40 CFR 52.21(j); 40 CFR 60.44Da(e)(1) (subsumed)]
 - c. Contain carbon monoxide (CO) in excess of 0.15 lb/MMBtu on a 30-day rolling average and 0.30 lb/MMBtu on a 1-hour average.
[40 CFR 52.21(j)]
 - d. Contain particulate matter (PM) in excess of 0.012 lb/MMBtu for filterable particulate matter (PM) on a 3-hour average and 0.030 lb/MMBtu for total particulate matter on a 3-hour average.
[40 CFR 52.21(j); 391-3-1-.02(2)(d) (subsumed); 40 CFR 60.42Da(c) (subsumed)]
 - e. Contain sulfur dioxide in excess of 0.065 lb/MMBtu on a 30-day rolling average when the uncontrolled sulfur dioxide emission rate is less than or equal to 1 lb/MMBtu on a 30-day rolling average.
[40 CFR 52.21(j); 40 CFR 60.43Da(i)(1)(i) (subsumed); 391-3-1-.02(2)(d) (subsumed)]
 - f. Contain sulfur dioxide in excess of 0.08 lb/MMBtu on a 30-day rolling average when the uncontrolled sulfur dioxide emission rate is greater than 1 lb/MMBtu but less than 1.25 lb/MMBtu on a 30-day rolling average.
[40 CFR 52.21(j); 40 CFR 60.43Da(i)(1)(i) (subsumed); 391-3-1-.02(2)(d) (subsumed)]
 - g. Contain sulfur dioxide in excess of 0.105 lb/MMBtu on a 30-day rolling average when the uncontrolled sulfur dioxide emission rate is greater than 1.25 lb/MMBtu but less than 1.6 lb/MMBtu on a 30-day rolling average.
[40 CFR 52.21(j); 40 CFR 60.43Da(i)(1)(i) (subsumed); 391-3-1-.02(2)(d) (subsumed)]
 - h. Contain sulfur dioxide in excess of 0.12 lb/MMBtu on a 24-hour average.
[40 CFR 52.21(j); 40 CFR 60.43Da(i)(1)(i) (subsumed); 391-3-1-.02(2)(d) (subsumed)]
 - i. Contain volatile organic compounds (VOC) in excess of 3.6×10^{-3} lb/MMBtu, as methane, on a 3-hour average.
[40 CFR 52.21(j)]

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- j. Contain lead (Pb) in excess of 1.8×10^{-5} lb/MMBtu on a 3-hour average.
[40 CFR 52.21(j)]
- k. Contain fluorides (as HF) in excess of 9.5×10^{-4} lb/MMBtu on a 3-hour average while firing PRB coal or 1.4×10^{-3} lb/MMBtu on a 3-hour average while firing CAPP Coal or a computed weighted average based on the proportion of energy output in MMBtu input contributed by each coal rank burned during the compliance period and its applicable HF emissions limit.
[40 CFR 52.21(j)]
- l. Contain sulfuric acid mist (H_2SO_4) in excess of 0.005 lb/MMBtu on a 3-hour average.
[40 CFR 52.21(j)]
- m. Contain mercury (Hg) in excess of 15×10^{-6} lb/MW-hr on an annual average while firing PRB coal or 6×10^{-6} lb/MW-hr on an annual average while firing CAPP coal, or a computed weighted average based on the proportion of energy output in gross MW output contributed by each coal rank burned during the compliance period and its applicable Hg emissions limit.
[40 CFR 52.21(j); 40 CFR 60.45Da(a) (subsumed)]
- n. Contain mercury from clarifier sludge incineration in both PC-Fired Boilers, S01 and S02, in excess of 3.2 kg (7.1 lb) of mercury per 24-hour period.
[40 CFR 61.52(b)]
- o. Contain hydrochloric acid (HCl) in excess of 0.0013 lb/MMBtu on a 3-hour average while firing PRB coal or 0.0083 lb/MMBtu on a 3-hour average while firing CAPP coal or a computed weighted average based on the proportion of energy output in MMBtu input contributed by each coal rank burned during the compliance period and its applicable HCl emissions limit.
[Georgia Air Toxic Guideline - 391-3-1-.02(2)(a)3]
- p. Exhibit greater than 20 percent opacity.
[40 CFR 52.21(j); and 391-3-1-.02(2)(d) (subsumed); 40 CFR 60.42Da(b) (subsumed)]

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- 2.16 The Permittee shall not discharge, or cause the discharge, into the atmosphere, from the Auxiliary Boiler, S03 any gases which
- a. Contain nitrogen oxides (NO_x) in excess of 0.1 lb/MMBtu.
[40 CFR 52.21(j)]
 - b. Contain carbon monoxide (CO) in excess of 0.04 lb/MMBtu.
[40 CFR 52.21(j); 40 CFR 63.7500 (subsumed)]
 - c. Contain particulate matter (PM) in excess of 0.01 lb/MMBtu for filterable particulate matter and 0.05 lb/MMBtu for total particulate matter.
[40 CFR 52.21(j); 391-3-1-.02(2)(d) (subsumed); 40 CFR 60.43b(h) (subsumed); 40 CFR 63.7500 (subsumed)]
 - d. Contain volatile organic compounds (VOC) in excess of 0.003 lb/MMBtu, as methane.
[40 CFR 52.21(j)]
 - e. Contain sulfuric acid mist (H₂SO₄) in excess of 6×10^{-5} lb/MMBtu.
[40 CFR 52.21(j)]
 - f. Exhibit greater than 10 percent opacity.
[40 CFR 52.21(j); 40 CFR 63.7500 and 391-3-1-.02(2)(d) (subsumed); 40 CFR 60.43b(f) (subsumed)]
 - g. Contain hydrochloric acid (HCl) in excess of 0.0009 lb/MMBtu.
[40 CFR 63.7500]
- 2.17 The Permittee shall limit each PC-Fired boiler, S01 and S02, to a maximum design heat input of 6,139 MMBtu/hr on a one-hour average.
[40 CFR 52.21(j)]
- 2.18 The Permittee shall limit the hours of operation of Emergency Generator S42 and of Fire Water Pump S43 such that the total hours of operation of each unit does not equal or exceed 500 hours or 150 hours respectively during any twelve consecutive months.
[40 CFR 52.21(j)]
- 2.19 The Permittee shall limit the hours of operation of auxiliary boiler S03 such that the total hours of operation does not equal or exceed 500 hours during any twelve consecutive months.
[40 CFR 52.21(j)]
- 2.20 The percent opacity from coal handling particulate sources (Emission Unit IDs S06 – S18) shall not equal or exceed 10 percent. [40 CFR 52.21(j); 40 CFR 60.252(c) (subsumed), 391-2-1-.02(2)(n)2 (subsumed)]

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- 2.21 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 particulate sources (Emission Unit IDs S06 – S18)
 - b. Ash management particulate sources (Emission Unit IDs S19 – S31)
 - c. Lime management particulate sources (Emission Unit IDs S35 – S37)
 - d. Roadway Particulate Sources (Emission Unit IDs S38 and S39)
- 2.22 The percent opacity from the Ash management particulate sources (Emission Unit IDs S19 – S31) shall not equal or exceed 10 percent.
[40 CFR 52.21(j); 391-3-1-.02(2)(n)2 (subsumed)]
- 2.23 The percent opacity from the Lime management particulate sources (Emission Unit IDs S35 – S37) shall not equal or exceed 10 percent.
[40 CFR 52.21(j); 391-3-1-.02(2)(n)2 (subsumed)]
- 2.24 The Permittee shall install and operate, as BACT for cooling towers, S40 and S41, drift eliminators and shall maintain documentation that a 0.001% drift is guaranteed.
[40 CFR 52.21(j)]

3.0 Process and Control Equipment

Not applicable.

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4.0 Performance Testing

- 4.1 Performance and compliance tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's **Procedures for Testing and Monitoring Sources of Air Pollutants**. The methods for the determination of compliance with emission limits listed under Section 2.0 which pertain to the emission units listed in Note B are as follows:
- a. Method 1 shall be used for the determination of sample point locations,
 - b. Method 2 shall be used for the determination of stack gas flow rate,
 - c. Method 3 or 3A shall be used for the determination of stack gas molecular weight,
 - d. Method 3B shall be used for the determination of the emissions rate correction factor or excess air, Method 3A may be used as an alternative;
 - e. Method 4 shall be used for the determination of stack gas moisture,
 - f. Method 5 or Method 17, as applicable, for the determination of filterable Particulate Matter concentration, the sampling time for each run shall be two hours,
 - g. Method 7 or 7E for the determination of Nitrogen Oxide concentration from the auxiliary boiler, S03, the sampling time for each run shall be one hour,
 - h. Method 8 shall be used for the determination of sulfur acid mist emissions, the sampling time for each run shall be one hour,
 - i. Method 9 and the procedures contained in Section 1.3 of the above reference document shall be used for the determination of opacity,
 - j. Method 10 shall be used for the determination of carbon monoxide concentration, the sampling time for each run shall be one hour,
 - k. Method 19 shall be used for the determination of particulate matter (PM), carbon monoxide, and nitrogen oxides, and sulfur dioxide emission rates,
 - l. Method 25A shall be used to determine total Hydrocarbons and to calculate Volatile Organic Compound emissions, the sampling time for each run shall be one hour,
 - m. Method 26A shall be used for the determination of Fluorine and hydrochloric acid emission rates from the PC-Fired Boilers, S01 and S02, the sampling time for each run shall be one hour,

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- n. Method 29 shall be used for the determination of lead emission rates, while firing PRB or CAPP coal, from the PC-Fired Boilers, S01 and S02, the sampling time for each run shall be one hour,
- o. Method 101A for a stack test or 105 for sludge sampling shall be used for the determination of mercury emissions while firing clarifier sludge unless an alternative method is approved by EPA, from the PC-Fired Boilers, S01 and S02,
- p. Method 202 shall be used for the determination of the condensible portion of total particulate matter.
- q. Compliance with the Hg limit in Condition 2.15.m. shall be determined according to the procedures in 40 CFR 60.50Da(h)(1) through (h)(3) using the CEMS required by Condition 5.2.
[40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
- r. Compliance with the NO_x limits in Condition 2.15.a. and 2.15.b. and the SO₂ limits in Condition 2.15.e., 2.15.f., 2.15.g., and 2.15.h. shall be determined using the CEMS required by Condition 5.2.
[40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
- s. Compliance with the CO limit in Condition 2.15.c. shall be determined using the CEMS required by Condition 5.2.
[40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
- t. Compliance with the filterable PM limit in Condition 2.15.d. shall be determined using the CEMS required by Condition 5.2.
[40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
- u. Compliance with the opacity limit in Condition 2.15.p. shall be determined using the COMS required by Condition 5.2.

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

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

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- 4.2 Within 60 days after achieving the maximum production rate on each coal type (PRB and CAPP) at which each PC-fired boiler, S01 and S02, will be operated, but not later than 180 days after the initial startup of each boiler for each coal type, the Permittee shall conduct the following performance tests and furnish to the Division a written report of the results of such performance tests:
- a. Performance tests on each PC-fired boiler, S01 and S02, for volatile organic compounds at base load and at 50 percent load to verify compliance with Condition No. 2.15.i.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - b. Performance tests on each PC-fired boiler, S01 and S02, for particulate emissions (PM) to verify compliance with Condition No. 2.15.d.
[40 CFR 52.21, 40 CFR 60.13, 40 CFR 60.42a(c) (subsumed), 391-3-1-.02(6)(b)1.(i)]
 - c. Performance tests on each PC-fired boiler, S01 and S02, for lead to verify compliance with Condition No. 2.15.j.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - d. Performance tests on each PC-fired boiler, S01 and S02, for fluoride emissions (as HF) while firing PRB coal to verify compliance with Condition No. 2.15.k.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - e. Performance tests on each PC-fired boiler, S01 and S02, for fluoride emissions (as HF) while firing CAPP coal to verify compliance with Condition No. 2.15.k.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - f. Performance tests on each PC-fired boiler, S01 and S02, for sulfuric acid mist to verify compliance with Condition No. 2.15.l.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - g. Performance tests on each PC-fired boiler, S01 and S02, for hydrochloric acid while firing PRB coal to verify compliance with Condition No. 2.15.o.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - h. Performance tests on each PC-fired boiler, S01 and S02, for hydrochloric acid while firing CAPP coal to verify compliance with Condition No. 2.15.o.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]

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- i. Performance test or sludge sampling on each PC-Fired Boilers, S01 and S02, shall be completed within 90 days of start up for mercury while firing clarifier sludge to very compliance with Condition No. 2.15.n, unless an alternative is approved by EPA. If the facilities emissions exceed 1.6 kg (3.5 lb) per 24-hour period, demonstrated either by stack sampling according to §61.53 or sludge sampling according to §61.54 or another alternative approved by EPA, shall monitor mercury emissions at intervals of at least once per year by use of Method 105, or an alternative approved by EPA.
- 4.3 Within 60 days after achieving the maximum production rate at which the auxiliary boiler, S03, will be operated, but not later than 180 days after the initial startup of the boiler, the Permittee shall conduct the following performance tests and furnish to the Division a written report of the results of such performance tests:
- a. Performance tests on the auxiliary boiler, S03, for carbon monoxide to verify compliance with Condition No. 2.16.b.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - b. Performance tests on the auxiliary boiler, S03, for volatile organic compounds to verify compliance with Condition No. 2.16.d.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - c. Performance tests on the auxiliary boiler, S03, for particulate emissions (PM) to verify compliance with Condition No. 2.16.c.
[40 CFR 52.21, 391-3-1-.02(6)(b)1.(i)]
 - d. Performance test on the auxiliary boiler, S03, for nitrogen oxides (NOx) to verify compliance with Condition No. 2.16.a.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - e. Performance tests on the auxiliary boiler, S03, for sulfuric acid mist to verify compliance with Condition No. 2.16.e.
[40 CFR 52.21 and 391-3-1-.02(6)(b)1.(i)]
 - f. Performance test on the auxiliary boiler, S03, for opacity to verify compliance with Condition 2.16.f.
 - g. Performance tests on the auxiliary boiler, S03, or fuel sampling to verify compliance with Condition 2.16.g.

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5.0 Monitoring Requirements

- 5.1 Any continuous monitoring system required by the Permit shall be in continuous operation and data recorded as set forth in this Permit during all periods of operation of the affected facility except for continuous monitoring system breakdowns and repairs. Data shall be recorded during calibration checks and zero and span adjustments. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.
[391-3-1-.02(6)(b)1]
- 5.2 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
- a. A Continuous Emissions Monitoring System (CEMS) for measuring NO_x emissions discharged to the atmosphere from each PC-fired boiler stack, S01 and S02. The one-hour average nitrogen oxides emissions rates shall also be recorded in pound per million Btu heat input [40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
 - b. A Continuous Emissions Monitoring System (CEMS) for measuring carbon monoxide emissions discharged to the atmosphere from each PC-fired boiler stack, S01 and S02. The one-hour average carbon monoxide emissions rates shall also be recorded in pound per million Btu heat input. [40 CFR 52.21 and 391-3-1-.02(6)(b)1]
 - c. A Continuous Emissions Monitoring System (CEMS) for measuring SO₂ emissions at both the inlet and outlet of the SO₂ control device. The one-hour average sulfur dioxides emissions rates shall be recorded in pound per million Btu heat input [40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
 - d. A Continuous Emissions Monitoring Systems (CEMS) to measure and record the concentration of Hg in the exhaust gases from each PC-fired boiler stack according to the requirements in 40 CFR 60.49a(p)(1) through (p)(3). Alternatively, for an affected facility that is also subject to the requirements of 40 CFR 75 Subpart I, the Permittee may install, certify, maintain, operate and quality-assure the data from a Hg CEMS according to 40 CFR 75.10 and appendices A and B to 40 CFR 75, in lieu of following the procedures in 40 CFR 60.49a(p)(1) through (p)(3). [40 CFR 52.21; 391-3-1-.02(6)(b)1; 40 CFR 60.13]
 - e. A Continuous Opacity Monitoring System (COMS) on each PC-fired Boiler stack, S01 and S02.
 - f. A Continuous Emissions Monitoring System (CEMS) for measuring filterable particulate matter emissions discharged to the atmosphere from each PC-fired boiler stack, S01 and S02. The system shall meet the requirements in 40 CFR 60.48a(p)(2) through (p)(8).

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g. A continuous monitoring system for measuring oxygen or carbon dioxide at each location where SO₂, PM, CO or NO_x emission monitors are required.

5.3 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

[391-3-1-.02(6)(b)1 and 40 CFR 52.21].

a. The cumulative total hours of operation, during all periods of operation, for each of the following: auxiliary boiler S03, emergency generator S42, and firewater pump S43. Data shall be recorded monthly.

b. The amount of clarifier sludge (in pounds) combusted in each PC-Fired Boiler, S01 and S02. The data will be recorded once per calendar day of process operation.

c. The heat input to each PC-Fired Boiler, S01 and S02. Data shall be recorded hourly using heat input determined in accordance with 40 CFR 75.

6.0 Ambient Monitoring

Not applicable

7.0 Fugitive Emissions

7.1 The Permittee shall take all reasonable precautions with any operation, process, handling, transportation, or storage facilities to prevent fugitive emissions of air contaminants.

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8.0 Notification, Reporting, and Record Keeping

Record Keeping Requirements

- 8.1 All records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division. The records shall be retained for at least five (5) years following the date of entry. [391-3-1-.02(6)(b)1(i)]
- 8.2. The Permittee shall use the hour meters required by Condition No. 5.3a to determine and record the following: [391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- a. The net operating hours for each of the following during every calendar month: auxiliary boiler S03, emergency generator S42 and firewater pump S43.
 - b. The total operating hours for each of the following for the twelve consecutive month period ending with each calendar month: auxiliary boiler S03, emergency generator S42, and firewater pump S43.

These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal. A twelve consecutive month total shall be the total for a month in the reporting period plus the totals for the previous eleven consecutive months.

- 8.3 The Permittee shall obtain a sample of from each coal shipment for analysis for sulfur content (%S), moisture content, ash content, and Gross Caloric Value (GCV). The sample shall be acquired and analyzed using the procedures of Section 12.5.2.1 in Method 19 of the Division's **Procedures for Testing and Monitoring Sources of Air Pollutants**. [391-3-1-.02(6)(b)1(i)]
- 8.4 The Permittee shall retain records of all fuel burned in the PC-Fired boilers, S01 and S02 at the frequency specified below. 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. Monthly quantity (tons) of each coal type burned.
 - b. Monthly quantity (gallons) of ultra low sulfur diesel fuel oil burned.
 - c. Quantity (pounds) of clarifier sludge burned daily (24-hour).
 - d. Monthly quantity (tons) of pet coke burned.

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- 8.5 The Permittee shall maintain records of representative samples of the coal burned in the PC-Fired Boilers, S01 and S02. 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.
- 8.6 For each shipment of ULSD fuel oil received, as defined in Condition 2.13, the Permittee shall obtain from the supplier of the fuel oil, a statement certifying that the oil complies with the specifications of ultra low sulfur diesel fuel oil contained in ASTM D 975. As an alternative to the procedure described above, the Permittee may, for each shipment of ultra low sulfur diesel fuel oil received, obtain a sample for analysis of the sulfur content. The procedures of ASTM D 4057 shall be used to acquire the sample. Sulfur content shall be determined using the procedures of Test Method ASTM D 129 or by some other test method approved by the US EPA and acceptable to the Division.
[40 CFR 63.7506 and 391-3-1-.02(6)(b)1(i)]
- 8.7 The Permittee shall maintain a record of all actions taken in accordance with Condition 2.21 to suppress fugitive dust from the Coal handling particulate sources (Emission Unit IDs S06 – S18), the Ash management particulate sources (Emission Unit IDs S19 – S31), the Lime management particulate sources (Emission Unit IDs S35 – S37), and the Roadway Particulate Sources (Emission Unit IDs S38 and S39). 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)]
- 8.8 The Permittee shall determine compliance with the NO_x emissions limitations in Condition No. 2.15.a and b using emissions data acquired by the NO_x CEMS. The 30-day rolling average and 12-month rolling average shall be determined as follows: [391-3-1-.02(6)(b)1(i)]
- a. The 30-day average shall be the average of all valid hours of NO_x emissions data for any 30 successive operating days.
- b. After the first 30-day average, a new 30-day rolling average shall be calculated after each operating day.
- c. A twelve consecutive month total shall be the total for a month in the reporting period plus the totals for the previous 11 consecutive months. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.
- d. For the purpose of this Permit, an operating day is a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.

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- 8.9 The Permittee shall determine compliance with the SO₂ emissions limitations in Condition No. 2.15.e, f, and g using emissions data acquired by the SO₂ CEMS. The 30-day rolling average shall be determined as follows: [391-3-1-.02(6)(b)1(i)]
- a. The 30-day average shall be the average of all valid hours of SO₂ emissions data for any 30 successive operating days.
 - b. After the first 30-day average, a new 30-day rolling average shall be calculated after each operating day.
 - c. For the purpose of this Permit, an operating day is a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.
- 8.10 The Permittee shall determine compliance with the CO emissions limitations in Condition No. 2.15.c using emissions data acquired by the CO CEMS. The 30-day rolling average shall be determined as follows: [391-3-1-.02(6)(b)1(i)]
- a. The 30-day average shall be the average of all valid hours of CO emissions data for any 30 successive operating days.
 - b. After the first 30-day average, a new 30-day rolling average shall be calculated after each operating day.
 - c. For the purpose of this Permit, an operating day is a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.
- 8.11 The Permittee shall determine compliance with the PM filterable emissions limitations in Condition No. 2.15.d using emissions data acquired by the PM CEMS. The 3-hour rolling average shall be determined as follows: [391-3-1-.02(6)(b)1(i)]
- a. The 3-hour average shall be the average of all valid hours of PM filterable emissions data for any 3 successive operating hours.
 - b. After the first 3-hour average, a new 3-hour average shall be calculated after each 3-hour block.

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- 8.12 The Permittee shall determine compliance with the mercury emissions limitations in Condition No. 2.15.m using emissions data acquired by the mercury CEMS. The annual average shall be determined as follows: [40 CFR 52.21; 391-3-1-.02(6)(b)1.(i)]
- a. The Permittee shall determine and record the emission rate (lb/MW-hr) of mercury from each PC-Fired Boiler while firing coal. The emission rate from each stack, as specified in Condition No. 2.15, shall be recorded continuously.
 - b. Using the above records the Permittee shall determine the monthly emission rate, in lb/MW-hr per month, of mercury from each PC-Fired Boiler. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.
 - c. A twelve consecutive month total shall be the total for a month in the reporting period plus the totals for the previous 11 consecutive months. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.
- 8.13 The Permittee shall determine and record the emission rate (lb per 24-hour period) of mercury from each PC-Fired Boiler, S01 and S02, while firing clarifier sludge, using the stack testing or sampling required by Condition No. 4.2.k and the records required by Condition No. 8.4.c. [40 CFR 61.55]
- 8.14 The Permittee shall use the records required by Condition No. 8.13 to determine the 24-hour total of mercury emissions (in lbs) from each PC-Fired Boiler, for each month while firing clarifier sludge. For the purpose of this Permit, an operating day is a 24-hour period between 12:00 midnight and the following midnight during which any fuel is combusted at any time. It is not necessary for the fuel to be combusted continuously for the entire 24-hour period.
[40 CFR 61.55]
- 8.15 The Permittee shall maintain the following records as they relate to the startup and shutdown of each PC-Fired Boiler, S01 and S02:
[391-3-1-.02(6)(b)1(i) and 40 CFR 52.21]
- a. The type of startup initiated, per day; the hours attributed to the startup, and the hours attributed to shutdown. If the PC-Fired Boiler was not in operation on any given day, the records shall so note.
 - b. Identify startup of the pollution control systems – SCR, Dry Scrubber, and Fabric Filter Baghouse

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- 8.16 The Permittee shall verify and document that each shipment of ultra low sulfur diesel fuel oil (ULSD) received for combustion in the auxiliary boiler, emergency diesel generator, and the firewater pump, S03, S42, and S43, complies with the requirements of Condition 2.12 of the Permit by either of the following means:
[40 CFR 63.7506 and 391-3-1-.02(6)(b)1(i)]
- a. Fuel oil receipts obtained from the fuel supplier certifying that the oil is diesel fuel oil and contains less than or equal to 0.0015 percent sulfur, by weight.
 - b. Analysis of the fuel oil conducted by methods of sampling and analysis which have been specified or approved by the Division which demonstrates that the diesel fuel oil contains less than or equal to 0.0015 percent sulfur, by weight.
- 8.17 The Permittee shall maintain files of all measurements, including continuous monitoring systems, monitoring devices, and performance testing measurements; all continuous monitoring system or monitoring device calibration checks; 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(2)(c)]
- 8.18 The Permittee shall develop and implement a Dust Suppression Plan sufficient to assure that the provisions of Condition Nos. 2.20, 2.21, 2.22, and 2.23 are met. The plan shall be subject to review and approval by the Division and shall include records sufficient to show that the plan is followed. In particular, any deviations from the plan, or failure to follow plan procedures, shall be noted.
[391-3-1-.02(6)(b)1]
- 8.19 The Permittee shall determine and record the heat rate from each PC-Fired Boiler, S01 and S02 to ensure that each boiler operates under the maximum design heat input rate as stated in Condition No. 2.17.
[391-3-1-.02(6)(b)1(i) and 40 CFR 52.21]
- 8.20 The Permittee shall maintain documentation that the drift eliminators from each cooling tower, S40 and S41 operate in a manner that is consistent with Condition No. 2.24.
[391-3-1-.02(6)(b)1(i) and 40 CFR 52.21]

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Reporting Requirements

- 8.21 The Permittee shall furnish the Division written notification as follows:
[40 CFR 52.21; 40 CFR 60.7; 40 CFR 61.09]
- a. A notification of the date of construction of each PC-Fired Boiler, S01 and S02, auxiliary boiler, S03, and the Coal Handling Particulate Sources, S06 – S18, is commenced postmarked no later than 30 days after such date.
 - b. A notification of the actual date of initial startup of each PC-Fired Boiler, S01 and S02, auxiliary boiler, S03, and the Coal Handling Particulate Sources, S06 – S18, postmarked within 15 days after such date. For purposes of this permit, “startup” shall mean the setting in operation of an affected facility for any purpose.
 - c. Certification that a final inspection has shown that construction of each PC-Fired Boiler, S01 and S02, has been completed in accordance with the application, plans, specifications and supporting documents submitted in support of this permit. The certification shall be included with the notification in paragraph (b).
 - d. A notification of the testing or sludge sampling completion as required by 40 CFR 61.53 and 61.54 within 90 days of startup while firing clarifier sludge in each PC-Fired Boiler, S01 and S02.
- 8.22 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 emission control equipment for a period of four hours or more which results in excessive emissions.

The Permittee shall submit a written report which shall contain the probable cause of the deviation(s), duration of the deviation(s), and any corrective actions or preventive measures taken.

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

- 8.23 Excess Emissions
- a. Excess emissions resulting from startup, shutdown, 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.

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- 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 this Permit.
[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)]
- 8.24 The Permittee shall submit a written report containing excess emissions, exceedances, and/or excursions as described in this permit and any monitor malfunctions for each quarterly period ending March 31, June 30, September 30, and December 31 of each year. All reports shall be postmarked by the 30th day following the end of each reporting period, April 30, July 30, October 30, and January 30, respectively. Reporting required by this condition shall begin at the end of the quarter in which initial startup is completed. In the even that there have not been any excess emissions, exceedances, excursions or malfunctions during a reporting period, the report should so state. Otherwise, the contents of each report shall be as specified by the Division’s Procedures for Testing and Monitoring Sources of Air Pollutants and shall contain the following:
[391-3-1-.02(6)(b)1]
- a. A summary report of excess emissions, exceedances and excursions, and monitor downtime, in accordance with Section 1.5(c) and (d) of the above referenced document, including any failure to follow required work practice procedures.
 - b. Total operating time during each reporting period.
 - c. The magnitude of all excess emissions, exceedances and excursions computed in accordance with the applicable definitions as determined by the Director, and any conversion factors used, and the date and time of the commencement and completion of each time period of occurrence.
 - d. Specific identification of each period of such excess emissions, exceedances, and excursions that occur during startups, shutdowns, or malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.
 - e. The date and time identifying each period during which any required monitoring system or device was inoperative (including periods of malfunction) except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the monitoring system or device has not been inoperative, repaired, or adjusted, such information shall be stated in the report.
 - f. Certification that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

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8.25 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition No. 8.24, the following excess emissions, exceedances, and excursions shall be reported:

[40 CFR 52.21 and 391-3-1-.02(6)(b)1]

a. Excess emissions: (means for the purpose of this Condition and Condition No. 8.24, any condition that is detected by monitoring or record keeping which is specifically defined, or stated to be, excess emissions by an applicable requirement)

None required to be reported in accordance with Condition No. 8.24.

b. Exceedances: (means for the purpose of this Condition and Condition No. 8.24, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

i. Any 30-day rolling average NO_x emission rate which exceeds 0.07 lb/MMBtu for each PC-Fired Boiler, S01 and S02,

ii. Any 12-month rolling average NO_x emission rate which exceeds 0.05 lb/MMBtu for each PC-Fired Boiler, S01 and S02, this condition becomes effective 6 months after initial start-up of each PC-Fired boiler, S01 and S02, absent approval by the Division for an extension of this date.

iii. Any 1-hour average CO emission rate which exceeds 0.30 lb/MMBtu for each PC-Fired Boiler, S01 and S02,

iv. And 30-day rolling average CO emission rate which exceeds 0.15 lb/MMBtu for each PC-Fired Boiler, S01 and S02,

v. Any 3-hour block average for filterable PM emission rate which exceeds 0.012 lb/MMBtu for each PC-Fired Boiler, S01 and S02,

vi. Any 24-hour average sulfur dioxide emission rate which exceeds 0.12 lb/MMBtu for each PC-Fired Boiler, S01 and S02,

vii. Any 30-day rolling average sulfur dioxide emission rate exceeds 0.065 lb/MMBtu when the uncontrolled sulfur dioxide emission rate is less than or equal to 1 lb/MMBtu on a 30-day rolling average for each PC-Fired Boiler, S01 and S02,

viii. Any 30-day rolling average sulfur dioxide emission rate exceeds 0.08 lb/MMBtu when the uncontrolled sulfur dioxide emission rate is greater than 1 lb/MMBtu but less than 1.25 lb/MMBtu on a 30-day rolling average for each PC-Fired Boiler, S01 and S02,

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- ix. Any 30-day rolling average sulfur dioxide emission rate exceeds 0.105 lb/MMBtu when the uncontrolled sulfur dioxide emission rate is greater than 1.25 lb/MMBtu but less than 1.6 lb/MMBtu on a 30-day rolling average for each PC-Fired Boiler, S01 and S02,
 - x. Any annual average mercury emission rate that exceeds 15×10^{-6} lb/MW-hr while firing PRB coal for each PC-Fired Boiler, S01 and S02,
 - xi. Any annual average mercury emission rate that exceeds 6×10^{-6} lb/MW-hr while firing CAPP coal for each PC-Fired Boiler, S01 and S02,
 - xii. Any 24-hour average mercury emissions rate while firing clarifier sludge that exceeds 7.1 lb.
 - xiii. Any six-minute period during which the average opacity, as measured by a continuous opacity monitoring system for either PC-Fired boiler, S01 and S02, exceeds 20 percent.
 - xiv. Any time fuel fired in any PC-Fired Boiler, S01 and S02, has a sulfur content which exceeds 3.0 percent sulfur, by weight.
 - xv. Any time ultra low sulfur fuel oil combusted for startup in PC-Fired boilers, S01 and S02, in auxiliary boiler, S03, in emergency generator S42 and firewater pump S43 exceeds 0.0015 percent sulfur by weight.
 - xvi. Any twelve consecutive month period during which hours of operation of the auxiliary boiler exceeds 500 hours.
 - xvii. Any twelve consecutive month period during which hours of operation of emergency generator S42 or firewater pump S43 exceed 500 and 150 hours respectively.
 - xviii. Any hour that either PC-Fired boiler, S01 and S02, has a heat input rate that exceeds 6,139 MMBtu/hr.
 - xix. Any calendar day that clarifier sludge combustion in either PC-Fired boiler, S01 and S02, exceeds 1.0 percent of the total heat input rate to the boiler, or 61.4 MMBtu/hr.
- c. Excursions: (means for the purpose of this Condition and Condition No. 8.24, 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. None required to be reported in accordance with Condition 8.24.

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- 8.26 The Permittee shall submit a written report containing the following information for each quarterly period ending March 31, June 30, September 30, and December 31 of each year. All reports shall be postmarked by the 30th day following the end of each reporting period, April 30, July 30, October 30, and January 30, respectively. Reporting required by this condition shall begin at the end of the quarter in which initial startup is completed. [40 CFR 52.21, 40 CFR 63.7506, and 391-3-1-.02(6)(b)1]
- a. The twelve consecutive month total hours of operation of auxiliary boiler, S03, emergency generator S42, and firewater pump S43, each, for each month in the quarterly reporting period. A twelve consecutive month total shall be the total for a month in the reporting period plus the totals for the previous eleven consecutive months.
 - b. The annual mercury emission rate in lb/MW-hr from each PC-Fired Boiler, S01 and S02, along with the corresponding weighted average limit determined in accordance with Condition 2.15.m.
 - c. The 30-day average NO_x emission lb/MMBtu from PC-fired boilers, S01 and S02, for each 30-day average period that ends during the reporting period.
 - d. The 12-month rolling average NO_x emission lb/MMBtu from PC-fired boilers, S01 and S02, for each 11-month average period that ends during the reporting period.
 - e. The 30-day average SO₂ emission lb/MMBtu from PC-fired boilers, S01 and S02, for each 30-day average period that ends during the reporting period.
 - f. The coal sampling to determine sulfur content, moisture content, and Gross Caloric Value as required by condition 8.3. Monthly records on the tons of coal burned in Condition 8.4 and the percent ash content as required in Condition 8.5.
 - g. ULSD fuel oil certifications for ultra low sulfur diesel fuel oil burned for startup in each PC-Fired Boiler, S01 and S02, in auxiliary boiler S03, Diesel Emergency Generator S42, and Emergency Firewater Pump S43, and a statement signed by a responsible official of the affected facility that the records of fuel supplier certifications submitted represent all of the ULSD fuel oil was not burned during the quarter, the report should state that no ULSD fuel oil was burned during the quarter.
 - h. The 24-hour total of mercury emissions (in lbs) from each PC-Fired Boiler, S01 and S02, for each 24-hour period while firing clarifier sludge.
 - i. The maximum hourly heat input for each PC-Fired Boiler, S01 and S02 during the reporting period.

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9.0 Modifications

- 9.1 Prior to any source commencing a modification as defined in Georgia Rule 391-3-1-.01(pp), which may result in air pollution and not exempted by Georgia Rule 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 data 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.

10.0 Special Conditions

- 10.1 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.
- 10.2 The Permittee shall submit an Initial Title V permit application within one year of initial startup of the plant.
- 10.3 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of the fee shall be determined each year in accordance with the "Procedures for Calculating Air Permit Fees."