

Part 70 Operating Permit Amendment

Permit Amendment No.: **4911-067-0003-V-02-2** Effective Date:

Facility Name: **McDonough Combined-Cycle Generating Units**

Facility Address: 5551 South Cobb Drive
Smyrna, Georgia, 30080 (Cobb County)

Mailing Address: 241 Ralph McGill Blvd. NE, Bin 10221
Atlanta, Georgia 30308

Parent/Holding Company: Southern Company/Georgia Power

Facility AIRS Number: 04-13-067-00003

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 construction permit for:

Three natural-gas-fired combined-cycle power blocks and associated support equipment at Georgia Power's existing Plant McDonough in Cobb County. Each power block will consist of two combustion turbines, two heat recovery steam generators with duct-burners, and one steam turbine. Two of the combustion turbines will also have the capability to burn ultra low sulfur diesel as a back-up fuel. Contemporaneous with the construction and operation of the three new combined-cycle power blocks, Georgia Power will permanently shut down the two existing coal-fired units at the site.

This Permit Amendment 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 Amendment and Permit No. 4911-067-0003-V-02-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 17297 dated March 5, 2007; any other applications upon which this Permit Amendment or Permit No. 4911-067-0003-V-02-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **29** pages.

Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION**1.3 Process Description of Modification**

Georgia Power has proposed to install three combined-cycle power blocks and associated support equipment at Plant McDonough. Each power block will be nominally rated at 840 MW and will consist of two combustion turbines, two heat recovery steam generators with duct-burners, and one steam turbine. The combustion turbines will be fired with natural gas. Two of the combustion turbines will also have the capability to burn ultra low sulfur diesel as a back-up fuel. The duct burners will fire natural gas that may be supplemented with landfill gas. Each combustion turbine and its paired duct burner will share a common stack.

Block 4 will consist of combustion turbines and associated duct burners with emission unit ID Nos. CT4A/DB4A and CT4B/DB4B and all related ancillary and support equipment. Block 5 will consist of combustion turbines and associated duct burners with emission unit ID Nos. CT5A/DB5A and CT5B/DB5B and all related ancillary and support equipment. Block 6 will consist of combustion turbines and associated duct burners with emission unit ID Nos. CT6A/DB6A and CT6B/DB6B and all related ancillary and support equipment.

In addition to the combustion turbines, heat recovery steam generators with duct burners, and a steam turbine, each new power block will contain support equipment including fuel, air, lubrication, and exhaust gas systems, control systems, emissions control systems, and miscellaneous ancillary components and sub-components. Each new power block will have an auxiliary boiler and a cooling tower. The facility will utilize two existing cooling towers (currently under construction) and one new cooling tower to be constructed. The two combustion turbines that can be fired by ultra low sulfur diesel fuel (CT4A and CT5A) will be served by two above-ground oil storage tanks.

The existing Plant McDonough consists of two coal-fired steam electric generating units with a nominal capacity of 254 MW each, and two simple-cycle combustion turbines with a nominal capacity of 39 MW each. Contemporaneous with the construction and operation of the three new combined-cycle power blocks, Georgia Power will permanently shut down the two existing coal-fired units.

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

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

3.1.1 Additional Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
CT4A	Combustion Turbine Unit 4A	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, 40 CFR 63 Subpart A, 40 CFR 63 Subpart YYYY, Acid Rain, CAIR	3.3.7, 3.3.10, 3.3.12, 3.3.13, 3.3.17, 3.3.18, 3.3.19, 3.3.21, 3.3.22, 3.3.23, 3.3.28, 4.2.2, 4.2.3, 4.2.4, 4.2.5, 5.2.10, 5.2.11, 5.2.12, 5.2.13, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.1.8, 6.2.15, 6.2.16, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33, 6.2.34	SC4A OC4A LC4A WI4A	SCR Catalytic Oxidation Dry Low NOx Combustor Water Injection
DB4A	HRSG, for combustion turbine CT4A, supplemental Duct Burner Unit 4A	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC4A OC4A LD4A	SCR Catalytic Oxidation Low NOx Burners
CT4B	Combustion Turbine Unit 4B	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.8, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.2.15, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33	SC4B OC4B LC4B	SCR Catalytic Oxidation Dry Low NOx Combustor
DB4B	HRSG, for combustion turbine CT4B, supplemental Duct Burner Unit 4B	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC4B OC4B LD4B	SCR Catalytic Oxidation Low NOx Burners
CT5A	Combustion Turbine Unit 5A	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, 40 CFR 63 Subpart A, 40 CFR 63 Subpart YYYY, Acid Rain, CAIR	3.3.7, 3.3.10, 3.3.12, 3.3.13, 3.3.17, 3.3.18, 3.3.19, 3.3.21, 3.3.22, 3.3.23, 3.3.28, 4.2.2, 4.2.3, 4.2.4, 4.2.5, 5.2.10, 5.2.11, 5.2.12, 5.2.13, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.1.8, 6.2.15, 6.2.16, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33, 6.2.34	SC5A OC5A LC5A WI5A	SCR Catalytic Oxidation Dry Low NOx Combustor Water Injection

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McDonough Combined-Cycle Generating Units

Permit No.: 4911-067-0003-V-02-2

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	ID No.	Description
DB5A	HRSG, for combustion turbine CT5A, supplemental Duct Burner Unit 5A	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC5A OC5A LD5A	SCR Catalytic Oxidation Low NOx Burners
CT5B	Combustion Turbine Unit 5B	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.8, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.2.15, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33	SC5B OC5B LC5B	SCR Catalytic Oxidation Dry Low NOx Combustor
DB5B	HRSG, for combustion turbine CT5B, supplemental Duct Burner Unit 5B	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC5B OC5B LD5B	SCR Catalytic Oxidation Low NOx Burners
CT6A	Combustion Turbine Unit 6A	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.8, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.2.15, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33	SC6A OC6A LC6A	SCR Catalytic Oxidation Dry Low NOx Combustor
DB6A	HRSG, for combustion turbine CT6A, supplemental Duct Burner Unit 6A	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC6A OC6A LD6A	SCR Catalytic Oxidation Low NOx Burners
CT6B	Combustion Turbine Unit 6B	391-3-1-.02(2)(b), (d), (g), (nnn), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.8, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.17, 5.2.18, 5.2.19, 6.1.7, 6.2.15, 6.2.17, 6.2.18, 6.2.19, 6.2.20, 6.2.21, 6.2.22, 6.2.23, 6.2.24, 6.2.25, 6.2.26, 6.2.31, 6.2.33	SC6B OC6B LC6B	SCR Catalytic Oxidation Dry Low NOx Combustor
DB6B	HRSG, for combustion turbine CT6B, supplemental Duct Burner Unit 6B	391-3-1-.02(2)(b), (d), (g), (yy), 40 CFR 60 Subpart A, 40 CFR 60 Subpart KKKK, Acid Rain, CAIR	3.3.9, 3.3.12, 3.3.13, 3.3.17, 3.3.28, 4.2.2, 5.2.10, 5.2.11, 5.2.12, 5.2.14, 6.1.7, 6.2.15, 6.2.31	SC6B OC6B LD6B	SCR Catalytic Oxidation Low NOx Burners
AB04	Auxiliary Boiler Unit 04	391-3-1-.02(2)(b), (d), (g), (lll) 40 CFR 60 Subpart Db	3.3.12, 3.3.24, 3.3.25, 3.3.26, 3.2.28, 4.2.6, 5.2.11, 6.1.7, 6.2.27, 6.2.28, 6.2.29, 6.2.31	LA04 FR04	Low NOx Burners Flue Gas Recirculation
AB05	Auxiliary Boiler Unit 05	391-3-1-.02(2)(b), (d), (g), (lll) 40 CFR 60 Subpart Db	3.3.12, 3.3.24, 3.3.25, 3.3.26, 3.2.28, 5.2.11, 6.1.7, 6.2.27, 6.2.28, 6.2.29, 6.2.31	LA05 FR05	Low NOx Burners Flue Gas Recirculation
AB06	Auxiliary Boiler Unit 06	391-3-1-.02(2)(b), (d), (g), (lll) 40 CFR 60 Subpart Db	3.3.12, 3.3.24, 3.3.25, 3.3.26, 3.2.28, 5.2.11, 6.1.7, 6.2.27, 6.2.28, 6.2.29, 6.2.31	LA06 FR06	Low NOx Burners Flue Gas Recirculation

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

3.3 Equipment Federal Rule Standards

General Requirements

- 3.3.5 The Permittee shall commence construction on Blocks 4 & 5 within 18 months of the effective date of the final construction permit. In the event construction is not commenced within that 18 months, is discontinued for a period of 18 months or more, or is not completed within a reasonable time, and absent approval by the Division for an extension, approval to construct the affected Block shall become null and void. For purposes of this Permit, the definition of the term “commence” is provided at 40 CFR 52.21(b)(9).
[40 CFR 52.21(r)]
- 3.3.6 The Permittee shall commence construction of Block 6 within 18 months of the approved commencement date. The approved commencement date for Block 6 shall be no later than February 2010, unless the Division approves another commencement date. In the event that a program of construction is not commenced on Block 6 within 18 months of the approved commencement date, is discontinued for a period of 18 months or more, or is not completed within a reasonable time, and absent approval by the Division for an extension, approval to construct Block 6 shall become null and void.
[40 CFR 52.21(r)]
- 3.3.7 The Permittee shall fire only pipeline quality natural gas or ultra low sulfur diesel fuel in combustion turbines with emission unit ID Nos. CT4A and CT5A.
[40 CFR 60 Subpart KKKK and 391-3-1-.02(2)(g)]
- 3.3.8 The Permittee shall fire only pipeline quality natural gas in combustion turbines with emission unit ID Nos. CT4B, CT5B, CT6A, and CT6B.
[40 CFR 60 Subpart KKKK and 391-3-1-.02(2)(g)]
- 3.3.9 The Permittee shall fire only pipeline quality natural gas or landfill gas in the duct burners (emission unit ID Nos. DB4A, DB4B, DB5A, DB5B, DB6A, and DB6B).
[40 CFR 60 Subpart KKKK and 391-3-1-.02(2)(g)]
- 3.3.10 Ultra low sulfur fuel oil fired in combustion turbines with emission unit ID Nos. CT4A and CT5A shall not contain more than 0.0015 percent sulfur by weight [equivalent to 15 ppm].
[40 CFR 60 Subpart KKKK and 391-3-1-.02(2)(g)]
- 3.3.11 The Permittee shall install and operate catalytic oxidation add-on control equipment on the combined exhaust from each combustion turbine and its paired duct burner as Best Available Control Technology (BACT) for carbon monoxide (CO) and as Lowest Achievable Emission Rate (LAER) for volatile organic compounds (VOC).
[40 CFR 52.21(j)(2) and 391-3-1-.03(8)(c)2.]

- 3.3.12 The Permittee shall not discharge, or cause the discharge, into the atmosphere as follows:
- a. Carbon monoxide emissions, including emissions occurring during startup and shutdown, in excess of 262 tons each for Blocks 4 & 5 and 241 tons for Block 6, during any twelve consecutive months.
[40 CFR 52.21(j)(2)]
 - b. VOC emissions, including emissions occurring during startup and shutdown, in excess of 135 tons each for Blocks 4 & 5 and 132 tons for Block 6, during any twelve consecutive months.
[391-3-1-.03(8)(c)2.]
 - c. NOx emissions, including emissions occurring during startup and shutdown, in excess of 217 tons each for Blocks 4 & 5 and 200 tons for Block 6, during any twelve consecutive months.
[391-3-1-.03(8)(c)]
- 3.3.13 The following definitions of startup and shutdown, as used in this Permit, shall apply:
[40 CFR 52.21(j)(2)]
- a. Startup is defined as the period of time from when the combustion turbine is first fired until the time for reception of 60 percent output signal from the combustion turbine or the time to achieve an output level less than 60 percent at which it has been demonstrated by a CEMS or during compliance testing that the normal steady state operating emission limits can be met.
 - b. Cold startup is defined as a startup to combined-cycle operation following a complete shutdown lasting more than forty-eight hours. Time allocated to a cold startup is not to exceed three hundred minutes or the time for reception of 60 percent output signal from the combustion turbine or the time to achieve an output level less than 60 percent at which it has been demonstrated by a CEMS or during compliance testing that the normal steady state operating emission limits can be met, whichever time is less.
 - c. Warm startup is defined as a startup to combined-cycle operation following a complete shutdown lasting eight hours or more, but less than or equal to forty-eight hours. Time allocated to a warm startup is not to exceed one-hundred eighty minutes or the time for reception of 60 percent output signal from the combustion turbine or the time to achieve an output level less than 60 percent at which it has been demonstrated by a CEMS or during compliance testing that the normal steady state operating emission limits can be met, whichever time is less.
 - d. Hot startup is defined as a startup to combined-cycle operation following a complete shutdown lasting less than eight hours. Time allocated to a hot startup is zero to one-hundred fifteen minutes or the time for reception of 60 percent output signal from the combustion turbine or the time to achieve an output level less than 60 percent at which it has been demonstrated by a CEMS or during compliance testing that the normal steady state operating emission limits can be met, whichever time is less.

- e. Unit shutdown is defined as the period of time from steady state operation to cessation of combustion turbine firing. Time allocated to a shutdown is not to exceed sixty minutes.

- 3.3.14 The Permittee shall not commence commercial operation of the combined-cycle systems with emission unit ID Nos. CT4A/DB4A, CT4B/DB4B, CT5A/DB5A and CT5B/DB5B until the coal-fired steam electric generating unit with emission unit ID No. SGM2 has been permanently shutdown.
[40 CFR 52.21]

- 3.3.15 The Permittee shall not commence commercial operation of the combined-cycle systems with emission unit ID Nos. CT6A/DB6A and CT6B/DB6B until the coal-fired steam electric generating unit with emission unit ID No. SGM1 has been permanently shutdown.
[40 CFR 52.21]

- 3.3.16 The Permittee shall comply with all applicable provisions of the New Source Performance Standards (NSPS) as found in 40 CFR 60 Subpart A – “General Provisions” as it relates to the combined-cycle systems (emission unit ID Nos. CT4A/DB4A, CT4B/DB4B, CT5A/DB5A, CT5B/DB5B, CT6A/DB6A, and CT6B/DB6B).
[40 CFR 60 Subpart A]

Natural Gas Combustion – Combined-Cycle System

- 3.3.17 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the combined exhaust of each combustion turbine and its paired duct burner when the combustion turbine is fired with pipeline quality natural gas, and the duct burner is fired with either natural gas and/or landfill gas, any gases which:
 - a. Contain nitrogen oxides in excess of 15 ppm, corrected to 15% oxygen, on a 30-day average.
[40 CFR 60 Subpart KKKK]

 - b. Contain nitrogen oxides in excess of 6.0 ppm, corrected to 15% oxygen, on a 30-day average, during the period May 1 through September 30 of each year.
[391-3-1-.02(2)(nnn)]

 - c. Contain carbon monoxide in excess of 1.8 ppm, corrected to 15% oxygen, on a 3-hour average.
[40 CFR 52.21(j)(2)]

 - d. Contain volatile organic compounds in excess of 1.8 ppm, corrected to 15% oxygen, as methane, on a 3-hour average, while the duct burner is being fired.
[391-3-1-.03(8)(c)2.]

 - e. Contain volatile organic compounds in excess of 1.0 ppm, corrected to 15% oxygen, as methane, on a 3-hour average, while the duct burner is not being fired.
[391-3-1-.03(8)(c)2.]

- f. Contain particulate matter in amounts equal to or exceeding 0.10 pound per million Btu, HHV basis, on a 3-hour average.
[391-3-1-.02(2)(d)(2)(iii)]
- g. Exhibit greater than or equal to 20% opacity except for one 6-minute period in any hour of no more than 27% opacity.
[391-3-1-.02(2)(d)3]

Fuel Oil Combustion – Combined-Cycle System

- 3.3.18 The Permittee shall not operate any combustion turbine with emission unit ID Nos. CT4A or CT5A for more than 1,000 hours each on ultra low sulfur diesel fuel during any twelve consecutive months.
[40 CFR 52.21]
- 3.3.19 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the combined exhaust of each combustion turbine and its paired duct burner when the combustion turbine is fired with ultra low sulfur diesel fuel, and the duct burner is fired with either natural gas and/or landfill gas, any gases which:
 - a. Contain nitrogen oxides in excess of 42 ppm, corrected to 15% oxygen, on a 30-day average.
[40 CFR 60 Subpart KKKK]
 - b. Contain nitrogen oxides in excess of 6.0 ppm, corrected to 15% oxygen, on a 30-day average, during the period May 1 through September 30 of each year.
[391-3-1-.02(2)(nnn)]
 - c. Contain carbon monoxide in excess of 9.0 ppm, corrected to 15% oxygen, on a 3-hour average.
[40 CFR 52.21(j)(2)]
 - d. Contain volatile organic compounds in excess of 4.0 ppm, corrected to 15% oxygen, as methane, on a 3-hour average.
[391-3-1-.03(8)(c)2.]
 - e. Contain particulate matter in amounts equal to or exceeding 0.10 pound per million Btu, HHV basis, on a 3-hour average.
[391-3-1-.02(2)(d)(2)(iii)]
 - f. Exhibit greater than 20% opacity except for one 6-minute period in any hour of no more than 27% opacity.
[391-3-1-.02(2)(d)3]

Fuel Oil Combustion – Combustion Turbines

- 3.3.20 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” as it relates to emission unit ID Nos. CT4A and CT5A.
[40 CFR 63 Subpart A]
- 3.3.21 Except for startup, shutdown or malfunction, or during periods of gas-fired operation, the Permittee shall limit the concentration of formaldehyde from any combustion turbine with emission unit ID Nos. CT4A or CT5A to no greater than 91 parts per billion on a dry volume basis (ppb) at 15% oxygen.
[40 CFR 63.6100 and Table 1 of 40 CFR Part 63 Subpart YYYYY]
- 3.3.22 Except for startup, shutdown or malfunction, or during periods of gas-fired operation, compliance with the emission limit established by Condition 3.3.21 shall be demonstrated by maintaining the 4-hour rolling average of the catalyst inlet temperature within the range suggested by the catalyst manufacturer.
[40 CFR 63.6100 and Table 2 of 40 CFR Part 63 Subpart YYYYY]
- 3.3.23 Upon startup of any combustion turbine with emission unit ID Nos. CT4A or CT5A, the Permittee shall operate such units in compliance with applicable emission limits and operating standards prescribed by Subpart YYYYY of 40 CFR Part 63, except for startup, shutdown, or malfunction. The Permittee shall operate and maintain such units, their associated catalytic oxidation emission control devices, and their related monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including periods of startup, shutdown, or malfunction.
[40 CFR 63.6095(a)(2), 40 CFR 63.6105(a), 40CFR 63.6105(b), and 40 CFR 63.6165]

Auxiliary Boilers

- 3.3.24 The Permittee shall fire only pipeline quality natural gas or propane-air in each auxiliary boiler with emission unit ID Nos. AB04, AB05, and AB06.
[391-3-1-.02(2)(d)2; 391-3-1-.02(2)(d)3; and 391-3-1-.02(2)(g)]
- 3.3.25 The Permittee shall limit the annual heat input to each auxiliary boiler (emission unit ID Nos. AB04, AB05, and AB06) to no more than 175,200 MMBtu during any twelve consecutive months (equivalent to an annual capacity factor equal to or less than 10%). The Permittee shall use a standard fuel heat content value of 1020 Btu/scf for natural gas and 1380 Btu/scf for propane-air to calculate compliance with this limit.
[40 CFR 52.21]
- 3.3.26 The Permittee shall not discharge, or cause the discharge, into the atmosphere from any auxiliary boiler with emission unit ID Nos. AB04, AB05, and AB06 any gases which:
 - a. Contain carbon monoxide in excess of 0.037 lb/MMBtu.
[40 CFR 52.21(j)(2)]

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- b. Contain volatile organic compounds in excess of 0.0051 lb/MMBtu.
[391-3-1-.03(8)(c)2.]
- c. Contain nitrogen oxides in excess of 30 ppm, corrected to 3% oxygen, on a 30-day average, during the period May 1 through September 30 of each year.
[391-3-1-.02(2)(III)]
- d. Contain particulate matter in amounts equal to or exceeding

$$P = 0.5(10/R)^{0.5}$$

Where P = particulate matter in pounds per million Btu and R = heat input of fuel-burning equipment in million Btu per hour.

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

- e. Exhibit greater than or equal to 20% opacity except for one 6-minute period in any hour of no more than 27% opacity.
[391-3-1-.02(2)(d)3]

3.3.27 Prior to commencing operation of the Combined-Cycle Electric Generating Blocks 4, 5, and 6, consisting of combustion turbines CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B, duct burners DB4A, DB4B, DB5A, DB5B, DB6A, and DB6b, and auxiliary boilers AB04, AB05, and AB06, the Permittee shall obtain external emission reduction credits for volatile organic compounds (VOC) in the amount of 466 tons per year for use as offsets as required by the Non-Attainment New Source Review permitting regulations.
[391-3-1-.03(8)(c)1., 12., and 13.]

3.3.28 The Permittee shall not discharge, or cause the discharge, into the atmosphere from the combined exhaust of each combustion turbine and its paired duct burner (emission unit ID Nos. CT4A/DB4A, CT4B/DB4B, CT5A/DB5A, CT5B/DB5B, CT6A/DB6A, and CT6B/DB6B) or the auxiliary boilers (emission unit ID Nos. AB04, AB05, and AB06) any gases that contain nitrogen oxides in excess of the following:
[391-3-1-.03(2)(c)]

- a. From the combined exhaust of each combustion turbine and its paired duct burner, 2.0 ppm, corrected to 15% oxygen, when the combustion turbine is fired with pipeline quality natural gas, and the duct burner is fired with either natural gas and/or landfill gas.
- b. From the combined exhaust of each combustion turbine and its paired duct burner, 6.0 ppm, corrected to 15% oxygen, when the combustion turbine is fired with ultra low sulfur diesel fuel, and the duct burner is fired with either natural gas and/or landfill gas.
- c. From the auxiliary boilers, 15 ppm, corrected to 3% oxygen.

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

MODIFIED CONDITION

- 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 and work practice standards listed under Section 3.3 of this permit which pertain to the emission units listed in Section 3.1 are as follows:
- a. Method 1 or 1A, as applicable, 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 3A or 3B for the determination of the emissions rate correction factor or excess air.
 - e. Method 4 for the determination of stack gas moisture.
 - f. Method 5 or Method 17, as applicable, for the determination of particulate matter concentration from all emission units except stacks serving a combustion turbine and its paired duct burner.
 - g. Method 5T for the determination of particulate matter concentration in any stack serving a combustion turbine and its paired duct burner.
 - h. Method 6 or 6C for the determination of sulfur dioxide concentration.
 - i. Method 7E and the procedures contained in Section 2.121 of the above-referenced document for the determination of nitrogen oxide emissions from any stack serving a combustion turbine and its paired duct burner.
 - j. The procedures contained in Section 2.116.2 of the above-referenced document for the determination of nitrogen oxide concentration from the steam generating units with emission unit ID Nos. SGM1 and SGM2 for the purposes of verifying compliance with Georgia Rule 391-3-1-.02(2)(jjj).
 - k. Method 7E for the determination of nitrogen oxide concentration for any purposes other than the purposes listed in Condition 4.1.3 i. or j.
 - l. Method 9 and the procedures contained in Section 1.3 of the above-referenced document for the determination of opacity.
 - m. Method 10 for the determination of carbon monoxide concentration.

- n. Method 19, when applicable, to convert particulate matter, carbon monoxide, sulfur dioxide, and nitrogen oxides concentrations (i.e., grains/dscf for PM, ppm for gaseous pollutants), as determined using other methods specified in this section, to emission rates (i.e., lb/MMBtu).
- o. Method 25A for the determination of concentrations of volatile organic compounds. The concentration of formaldehyde measured using Method 320 shall be added to the VOC concentration. If data from Method 320 is not available, a value of 0.091 ppm formaldehyde may be used. The Permittee may use Method 18 for determining methane and ethane concentrations to subtract from the results of Method 25A.
- p. ASTM Test Method D3120, or alternatively D129, D1266, D1552, D2622, D4294, or D5453, for the determination of sulfur content in liquid fuels.
- q. Test Method 320 of 40 CFR Part 63, Appendix A; ASTM D6348-03 provided that %R as determined in Annex A5 of ASTM D6348-03 is equal or greater than 70% and less than or equal to 130%; or other methods approved by the Division for the determination of formaldehyde concentrations for combustion turbines with emission unit IDs CT4A and CT5A for 40 CFR Part 63, Subpart YYYY purposes only.
- r. Method 4 of 40 CFR Part 60, Appendix A, or Test Method 320 of 40 CFR Part 63, appendix A, or ASTM D6348-03 for the determination of the moisture content at the sampling port location for the purpose of correcting the formaldehyde concentration to a dry basis for combustion turbines with emission unit IDs CT4A and CT5A for 40 CFR Part 63, Subpart YYYY purposes only.

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

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

4.2 Specific Testing Requirements

4.2.2 Within 60 days after achieving the maximum production rate at which each affected facility will be operated on natural gas, but not later than 180 days after the initial startup of such affected facility on natural gas, the Permittee shall conduct the following performance tests when the combustion turbine is fired with natural gas:

- a. For purposes of this condition, the term “affected facility” is defined as a combination of each combustion turbine and its paired duct burner.
- b. Performance tests, on each affected facility at any load condition within plus or minus 25 percent of 100 percent of peak load, for nitrogen oxides emissions to verify compliance with Conditions 3.3.17a, 3.3.17b, and 3.3.28a. Each performance test shall consist of three separate test runs. The minimum time per run is 60 minutes.

[391-3-1-.02(6)(b)1.(i), 40 CFR 52.21, 40 CFR 60.13, and 40 CFR 60.4400]

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- c. Performance tests, on each affected facility at base load, for carbon monoxide emissions to verify compliance with Condition 3.3.17c.
[391-3-1-.02(6)(b)1.(i) and 40 CFR 52.21]
- d. Performance tests, on each affected facility at base load with the DB firing, for volatile organic compounds to verify compliance with Condition 3.3.17d.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]
- e. Performance tests, on each affected facility at base load and 60% load with the DB not firing, for volatile organic compounds to verify compliance with Condition 3.3.17e.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]

The performance tests for carbon monoxide and volatile organic compounds with the DB firing shall be conducted concurrently.

4.2.3 Within 60 days after achieving the maximum production rate at which each combustion turbines with emission unit ID Nos. CT4A and CT5A will be operated on ultra low sulfur diesel fuel, but not later than 180 days after the initial startup of each such combustion turbine on ultra low sulfur diesel fuel, the Permittee shall conduct the following performance tests when the combustion turbine is fired with ultra low sulfur diesel fuel:

- a. For purposes of this condition, the term “affected facility” is defined as each combustion turbine.
- b. Performance tests, on each affected facility at any load condition within plus or minus 25 percent of 100 percent of peak load, for nitrogen oxides emissions to verify compliance with Conditions 3.3.19a, 3.3.19b, and 3.3.28b. Each performance test shall consist of three separate test runs. The minimum time per run is 60 minutes.
[391-3-1-.02(6)(b)1.(i), 40 CFR 52.21, 40 CFR 60.13, and 40 CFR 60.4400]
- c. Performance tests, on each affected facility at base load, for carbon monoxide emissions to verify compliance with Condition 3.3.19c.
[391-3-1-.02(6)(b)1.(i) and 40 CFR 52.21]
- d. Performance tests, on each affected facility at base load, for total particulate matter emissions to verify compliance with Condition 3.3.19e.
[391-3-1-.02(6)(b)1.(i) and 40 CFR 52.21]
- e. Performance tests, on each affected facility at base load, for visible emissions to verify compliance with Condition 3.3.19f.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]
- f. Performance tests, on each affected facility at base load and 60% load, for volatile organic compounds to verify compliance with Condition 3.3.19d.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]

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- g. Performance tests, on each affected facility at any load condition within plus or minus 10 percent of 100 percent load, for formaldehyde emissions to verify compliance with Condition 3.3.21. Each performance test shall consist of three separate test runs. The minimum time per run is 1 hour. Subsequent performance tests must be performed on an annual basis only if the terms in Condition 4.2.4 have been satisfied.
[40 CFR 63.6120]

The performance tests for carbon monoxide and volatile organic compounds shall be conducted concurrently. The performance tests for particulate matter and visible emissions shall be conducted concurrently.

- 4.2.4 If the aggregate total hours of operation when firing fuel oil by all stationary combustion turbines at the site equal or exceed 1000 hours in a calendar year, the Permittee shall conduct a performance test for formaldehyde emissions on emission units ID No. CT4A and/or No. CT5A, for each unit that burned oil during that calendar year. Each such performance test shall be conducted, while burning ultra low sulfur diesel fuel, within 90 days after the end of that calendar year.
[40 CFR 63.6175]
- 4.2.5 For each performance test required to demonstrate compliance with the emission limitation for formaldehyde, the Permittee must submit the Notification of Compliance Status required by Condition 6.2.34, including the performance test results, before the close of business on the 60th calendar day following the completion of the performance test.
[40 CFR 63.6145(f)]
- 4.2.6 Within 60 days after achieving the maximum production rate at which each auxiliary boiler will be operated, but not later than 180 days after the initial startup of that auxiliary boiler, the Permittee shall conduct the following performance tests:
 - a. Performance tests on each auxiliary boiler for nitrogen oxides emissions to verify compliance with Condition 3.3.28c.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]
 - b. Performance tests on the first auxiliary boiler (emission unit ID No. AB04) at 50% load and 100% load for carbon monoxide emissions to verify compliance with Condition 3.3.26a.
[391-3-1-.02(6)(b)1.(i) and 40 CFR 52.21]
 - c. Performance tests on the first auxiliary boiler (emission unit ID No. AB04) at 50% load and 100% load for volatile organic compounds to verify compliance with Condition 3.3.26b.
[391-3-1-.02(6)(b)1.(i) and 391-3-1-.03(8)(c)2]

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- 4.2.7 The Permittee shall conduct a performance test for nitrogen oxides on each auxiliary boiler during the first ozone season (period from May 1 to September 30 of each year) that the boiler operates to verify compliance with Condition 3.3.26c. The performance test shall be conducted using the monitoring system required by Condition 5.2.10c. and the procedures in Section 2.119.2(c) of the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.
[391-3-1-.02(6)(b)1.(i)]

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

5.2.10 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated pollutants 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.

- a. A Continuous Emissions Monitoring System (CEMS) for measuring NO_x concentration and diluent concentration (either oxygen or carbon dioxide) of the discharge to the atmosphere from each combustion turbine and its paired duct burner. The one-hour average NO_x emissions rates shall be recorded in ppm corrected to 15 percent oxygen on a dry basis. The diluent concentration shall be expressed in percent. For purposes of this condition, each one-hour average shall be calculated from at least four data points, each representing a different quadrant of the hour. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For hours that quality assurance and maintenance to the CEMS is performed, a valid hour must have at least two valid data points (one in each of two quadrants of the hour). For the purposes of this condition, each clock hour begins a new one-hour period. The quadrants of the hour begin at 0, 15, 30, and 45 minutes past the hour.
[391-3-1-.02(6)(b)1, 40 CFR 60.4335(b)(1), and 40 CFR 60.4340(b)(1)]
- b. A Continuous Emissions Monitoring System (CEMS) for measuring CO concentration and diluent concentration (either oxygen or carbon dioxide) discharge to the atmosphere from each combustion turbine and its paired duct burner. The one-hour average CO emissions rates shall be recorded in ppm corrected to 15 percent oxygen on a dry basis. The diluent concentration shall be expressed in percent. In addition to the applicable provisions of 40 CFR 60.13, each CO CEMS must be installed and certified in accordance with Performance Specification 4A of 40 CFR Part 60, Appendix B, except the 7-day calibration drift is based on unit operating days, not calendar days. For purposes of this condition, each one-hour average shall be calculated from at least four data points, each representing a different quadrant of the hour. For partial unit operating hours, at least one valid data point must be obtained for each quadrant of the hour in which the unit operates. For hours that quality assurance and maintenance to the CEMS is performed, a valid hour must have at least two valid data points (one in each of two quadrants of the hour). For the purposes of this condition, each clock hour begins a new one-hour period. The quadrants of the hour begin at 0, 15, 30, and 45 minutes past the hour.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]

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- c. A Continuous Emissions Monitoring System (CEMS) for measuring NO_x and oxygen concentration discharged to the atmosphere from each auxiliary boiler. The CEMS shall be designed to meet the requirements in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants Section 2.119.3(a) (1), (2), and (3). In lieu of installing a CEMS, the Permittee may monitor operating conditions and predict NO_x emission rates as specified in a plan submitted pursuant to Section 2.119.4(d) of the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.
- 5.2.11 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.
- a. The quantity of natural gas, in cubic feet, burned in each combustion turbine (emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B). Data shall be recorded continuously.
[391-3-1-.02(6)(b)1, 40 CFR 52.21, and 40 CFR Part 60, Subpart KKKK (subsumed)]
- b. The quantity of natural gas and/or landfill gas, in cubic feet, burned in each duct burner (emission unit ID Nos. DB4A, DB4B, DB5A, DB5B, DB6A, and DB6B). Data shall be recorded continuously.
[391-3-1-.02(6)(b)1, 40 CFR 52.21, and 40 CFR Part 60, Subpart KKKK (subsumed)]
- c. The quantity of ultra low sulfur diesel fuel, in gallons, burned in each combustion turbine with emission unit ID Nos. CT4A or CT5A. Data shall be recorded continuously.
[391-3-1-.02(6)(b)1, 40 CFR 52.21, and 40 CFR Part 60, Subpart KKKK (subsumed)]
- d. The quantity of natural gas and the quantity of propane-air, in cubic feet, burned in each auxiliary boiler with emission unit ID Nos. AB04, AB05 and AB06. Data shall be recorded monthly.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- e. The monthly oil-fired operating time, in hours, for each combustion turbine with emission unit ID Nos. CT4A and CT5A while burning ultra low sulfur diesel fuel shall be measured.
[391-3-1-.02(6)(b)1, 40 CFR 52.21, and 40 CFR 63.6125(d)]
- f. The monthly oil-fired operating time, in hours, for each existing combustion turbine at the site while burning distillate oil (i.e., other than CT4A and CT5A) shall be measured.
[40 CFR 63.6125(d)]

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- g. A Continuous Parameter Monitoring System (CPMS) for measuring the inlet temperature to the oxidation catalyst on each combustion turbine with emission unit ID Nos. CT4A and CT5A, whenever that unit is firing ultra low sulfur diesel fuel.
[391-3-1-.02(6)(b)1 and 40 CFR 63.6135(a) & (b)]
- 5.2.12 The sulfur content of the pipeline quality natural gas burned in the combustion turbines (emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A and CT6B) and in the duct burners (DB4A, DB4B, DB5A, DB5B, DB6A, DB6B) shall be monitored by submittal of a semiannual analysis of the gas by supplier or by the Permittee.
[391-3-1-.02(6)(b)1]
- 5.2.13 The sulfur content of the ultra low sulfur diesel fuel burned in the combustion turbines with emission unit ID Nos. CT4A and CT5A shall be monitored by verifying that each shipment of such fuel received complies with the specifications for Grade No. 1-D S15 or No. 2-D S15 as defined ASTM D975-06. Supplier certifications shall contain the name of the supplier and a statement from the supplier that the fuel oil meets Grade No. 1-D S15 or No. 2-D S15 as defined in ASTM D975-06.
[40 CFR 60.4360 and 40 CFR 60.4365]
- 5.2.14 The sulfur content of the landfill gas burned in the duct burners with emission unit ID Nos. DB4A, DB4B, DB5A, DB5B, DB6A, and DB6B shall be monitored by submittal of a semiannual analysis of the gas by the Permittee.
[40 CFR 60.4360]
- 5.2.15 Using the procedures of Appendix F, Procedure 1 (Quality Assurance Requirements for Gas Continuous Emissions Monitoring Systems Used for Compliance Determination) contained in the Division's "Procedures for Testing and Monitoring Sources of Air Pollutants," the Permittee shall assess the quality and accuracy of the data acquired by the carbon monoxide CEMS required by Condition 5.2.10.b. The following exceptions to Appendix F, Procedure 1 are allowed:
[391-3-1-.02(6)(b)1]
- a. The cylinder gas audit (CGA) is only required to be conducted in a calendar quarter if the turbine is operated during the quarter.
- b. A Relative Accuracy Test Audit (RATA) shall be conducted annually or every four operating quarters (not to exceed eight calendar quarters) which ever is greater. For the purpose of this condition an operating quarter is defined as any calendar quarter during which the turbine is operated.
- 5.2.16 The Permittee shall obtain CO emissions data for at least 75 percent of the operating hours for each combustion turbine during each calendar month that turbine is operated. If this minimum data requirement is not met using the CO CEMS required by Condition 5.2.10.b., the Permittee may supplement the emissions data with data obtained by conducting sampling using the methods prescribed in Condition 4.1.3.
[391-3-1-.02(6)(b)1]

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

Emission Unit	Pollutant
Combustion Turbine Unit 4A	NO _x , CO, and VOC
Combustion Turbine Unit 4B	NO _x , CO, and VOC
Combustion Turbine Unit 5A	NO _x , CO, and VOC
Combustion Turbine Unit 5B	NO _x , CO, and VOC
Combustion Turbine Unit 6A	NO _x , CO, and VOC
Combustion Turbine Unit 6B	NO _x , CO, and VOC

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]

5.2.18 The Permittee shall comply with the performance criteria listed in the table below for the nitrogen oxides (NO_x) emissions from combustion turbines with emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B. [40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator NO _x CEMS
A. Data Representativeness [64.3(b)(1)]	NO _x and O ₂ are measured continuously in the exhaust to the atmosphere.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	The CEMS is certified under 40 CFR Part 75, Appendix A
C. QA/QC Practices and Criteria [64.3(b)(3)]	NO _x and O ₂ analyzers are calibrated daily. They are maintained according to the QA/QC program developed specifically for the plant.
D. Monitoring Frequency [64.3(b)(4)]	NO _x and O ₂ are monitored continuously except during calibration and maintenance.
Data Collection Procedures [64.3(b)(4)]	A Data Acquisition System (DAS) retains all hourly average NO _x and O ₂ data.
Averaging Period [64.3(b)(4)]	The 1-minute data is used to calculate 1-hour averages.

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5.2.19 The Permittee shall comply with the performance criteria listed in the table below for the carbon monoxide (CO) and volatile organic compound (VOC) emissions from combustion turbines with emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B.
[40 CFR 64.6(c)(1)(iii)]

Performance Criteria [64.4(a)(3)]	Indicator CO CEMS
A. Data Representativeness [64.3(b)(1)]	CO and O2 are measured continuously in the exhaust to the atmosphere.
B. Verification of Operational Status (new/modified monitoring equipment only) [64.3(b)(2)]	The CO analyzer is certified under 40 CFR 60, Appendix B, Performance Specification 4A and the O2 analyzer is certified under 40 CFR Part 75, Appendix A.
C. QA/QC Practices and Criteria [64.3(b)(3)]	CO and O2 analyzers are calibrated daily. They are maintained according to the QA/QC program developed specifically for the plant.
D. Monitoring Frequency [64.3(b)(4)]	CO and O2 are monitored continuously except during calibration and maintenance.
Data Collection Procedures [64.3(b)(4)]	A Data Acquisition System (DAS) retains all hourly average CO and O2 data.
Averaging Period [64.3(b)(4)]	The 1-minute data is used to calculate 1-hour averages.

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

MODIFIED CONDITION

6.1.7 For the purpose of reporting excess emissions, exceedances and 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, 40 CFR 70.6(a)(3)(i), 40 CFR 60.4380]

- 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. Excess emissions of nitrogen oxides as described in Condition 6.2.12.
 - ii. Any operating period in which the 30-day rolling average NO_x emissions rate from a combustion turbine and its paired duct burner exceeds the applicable emissions limit in Condition 3.3.17a. or 3.3.19a.
- 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. Any six-minute period during which the average opacity, as measured by the COMS for the Plant McDonough steam generating units (emission unit IDs SGM1 and SGM2, combined exhaust), exceeds 40 percent.
 - ii. An ozone season (May 1 through September 30) total NO_x emission rate which exceeds 32,335.8 tons from the applicable equipment specified in Condition 3.2.4, beginning in 2005.
 - iii. Any time fuel fired in any steam generating unit (emission unit IDs SGM1 or SGM2) has a sulfur content which exceeds 3.0 percent sulfur, by weight.
 - iv. Any three-hour rolling average NO_x emission rate, determined in accordance with Condition 6.2.18, which exceeds 2.0 ppm at 15% oxygen for a combustion turbine and its paired duct burner, when the combustion turbine is fired with natural gas. For purposes of this condition, each clock hour begins a new one-hour average.
 - v. Any three-hour rolling average NO_x emission rate, determined in accordance with Condition 6.2.18, which exceeds 6.0 ppm at 15% oxygen for a combustion turbine and its paired duct burner, when the combustion turbine is fired with ultra low sulfur diesel fuel. For purposes of this condition, each clock hour begins a new one-hour average.

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- vi. Any three-hour rolling average CO emission rate, determined in accordance with Condition 6.2.23, which exceeds 1.8 ppm at 15% oxygen for a combustion turbine and its paired duct burner, when the combustion turbine is fired with natural gas. For purposes of this condition, each clock hour begins a new one-hour average.
 - vii. Any three-hour rolling average CO emission rate, determined in accordance with Condition 6.2.23, which exceeds 9.0 ppm at 15% oxygen for a combustion turbine and its paired duct burner, when the combustion turbine is fired with ultra low sulfur diesel fuel. For purposes of this condition, each clock hour begins a new one-hour average.
 - viii. Any twelve consecutive month total CO emissions from Combustion Turbine Blocks 4, 5, or 6, including emissions resulting from startup and shutdown, in excess of 262 tons, for Blocks 4 or 5, or 241 tons for Block 6. Each block consists of the correspondingly numbered combustion turbines and duct burners.
 - ix. Any twelve consecutive month total NO_x emissions from Combustion Turbine Blocks 4, 5, or 6, including emissions resulting from startup and shutdown, in excess of 217 tons, for Blocks 4 or 5, or 200 tons for Block 6. Each block consists of the correspondingly numbered combustion turbines and duct burners.
 - x. Any 30-day rolling average NO_x emissions from an auxiliary boiler that exceeds 30 ppm, corrected to 15% oxygen, during the ozone season (May 1 through September 30 of each year).
- 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 the Plant McDonough steam generating units (emission unit IDs SGM1 and SGM2, combined exhaust), any three-hour block average during which the arithmetic average opacity, as measured by the COMS, exceeds 40 percent. A three-hour block average shall be defined as any one of the eight consecutive three-hour time periods between 12:00 midnight and the following midnight.
 - ii. Any semiannual analysis of the natural gas combusted in any combustion turbine or duct burner whose sulfur content exceeds 0.5 grains per 100 standard cubic feet.
 - iii. For combustion turbines with emission unit ID Nos. CT4A and CT5A, any 4-hour rolling average of the oxidation catalyst inlet temperature outside the range suggested by the catalyst manufacturer

- iv. Any twelve consecutive month total hours of operation from burning ultra low sulfur diesel fuel, for a combustion turbine with emission unit ID Nos. CT4A or CT5A, which exceeds 1,000 hours.
- v. Any time ultra low sulfur diesel fuel combusted in a combustion turbine, with emission unit ID Nos. CT4A or CT5A, exceeds 0.0015 percent sulfur by weight.
- vi. Any twelve consecutive month total fuel consumption for an auxiliary boiler (emission unit ID Nos. AB04, AB05, or AB06) equals or exceeds 175,200 MMBtu.

6.1.8 In addition to the excess emissions, exceedances and excursions specified in Condition 6.1.7, the semiannual compliance report for each combustion turbine with emission unit ID Nos. CT4A and CT5A should also be included with the report required in Condition 6.1.4, which must contain the following:
[391-3-1-.02(6)(b)1, 40 CFR 61.6150(a), 40 CFR 61.6150(b)(5), and Table 6 of 40 CFR Part 63 Subpart YYYY]

- a. Company name and address.
- b. Statement by a responsible official, with that official's name, title and signature, certifying the accuracy of the content of the report.
- c. Date of report and beginning and ending dates of the reporting period.
- d. For each deviation from an emission limitation, the compliance report must contain:
 - i. The total operating time of each stationary combustion turbine during the reporting period.
 - ii. Information on the number, duration and cause of deviations (including the unknown cause, if applicable), as applicable, and the corrective action.
 - iii. Information on the number, duration and cause for monitor downtime incidents (including unknown cause, if applicable, other than downtime associated with zero and span and other daily calibration checks).

6.2 Specific Record Keeping and Reporting Requirements

Record Keeping Requirements

6.2.15 The Permittee shall retain monthly records of natural gas usage in each combustion turbine (emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B) and in each duct burner (emission unit ID Nos. DB4A, DB4B, DB5A, DB5B, DB6A, and DB6B).
[391-3-1-.02(6)(b)1 and 40 CFR Part 60, Subpart KKKK]

- 6.2.16 The Permittee shall retain monthly records of ultra low sulfur diesel fuel usage in each combustion turbine with emission unit ID Nos. CT4A and CT5A.
[391-3-1-.02(6)(b)1 and 40 CFR Part 60, Subpart KKKK]
- 6.2.17 The Permittee shall maintain the following daily records as they relate to the startup and shutdown of each combustion turbine with emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, and CT6B: the type of startup initiated, the minutes attributed to the startup, and the minutes attributed to shutdown. If the turbine was not in operation on any given day, the records shall so note.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]

Verification of Compliance with NOx Emission Limits

- 6.2.18 The Permittee shall calculate a three-hour rolling average NOx emission rate (in ppm at 15 percent oxygen) for each combustion turbine and its paired duct burner, using the NOx emission hourly emission rate determined in accordance with Condition 5.2.10.a.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- 6.2.19 The Permittee shall calculate a 30-day rolling average NOx emission rate (in ppm at 15 percent oxygen) for each combustion turbine and its paired duct burner, using the NOx emission hourly emission rate determined in accordance with Condition 5.2.10.a.
[40 CFR 60.4350 and 40 CFR 60.4380]
- 6.2.20 The Permittee shall determine and record the mass emission rate (pound per hour) of NOx from each combustion turbine and its paired duct burner for each hour or portion of each hour of operation. This emission rate must include emissions from all periods of operation. The hourly mass emission rate shall be calculated by multiplying the total NOx emissions in units of pound per million Btu, determined in accordance with the procedures of 40 CFR Part 75, Section 3 of Appendix F, by the total heat input for that hour determined in accordance with the procedures of 40 CFR Part 75, Section 5.5 of Appendix F. These records (including calculations) shall be maintained in a form suitable for inspection or submittal.
[40 CFR 52.21, 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]
- 6.2.21 The Permittee shall use the records required by Condition 6.2.20 to determine and record the monthly mass emission rate, in tons per month, of NOx from each combustion turbine and its paired duct burner. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.
[40 CFR 52.21, 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]
- 6.2.22 The Permittee shall use the records required by Condition 6.2.21 to determine and record the twelve consecutive month total emission rate, in tons, of NOx emissions from each combustion turbine and its paired duct burner. 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. These records (including calculations) shall be maintained as part of the monthly record suitable for inspection or submittal.
[40 CFR 52.21, 391-3-1-.02(6)(b)1, and 40 CFR 70.6(a)(3)(i)]

Verification of Compliance with CO Emission Limits

- 6.2.23 The Permittee shall calculate a three-hour average CO emission rate (in ppm at 15% oxygen) for each combustion turbine and its paired duct burner using the CO emission rate determined in accordance with Condition 5.2.10.b.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- 6.2.24 The Permittee shall, using the hourly heat input rate (million Btu per hour) determined in accordance with the procedures of Appendix F, 40 CFR Part 75, and the one-hour average CO emission rate in pounds per million Btu, calculate the hourly CO mass emission rate (pound per hour) for each hour or portion of each hour of operation of each combustion turbine and its paired duct burner. Only the one-hour average CO emission rates (pound per million Btu) that have been determined to be valid hourly emission rates, shall be used to calculate hourly mass emission rates.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- 6.2.25 The Permittee shall use the valid hourly CO mass emission rates (pound per hour), determined in accordance with the requirements of Condition 6.2.24, and all hourly CO mass emissions rates acquired in order to meet the minimum data requirement of Condition 5.2.16, to determine the monthly CO mass emissions, in tons, from each combustion turbine and its paired duct burner. This emission rate must include emissions during all periods of operation. The monthly CO mass emissions from each combustion turbine and its paired duct burner shall be calculated as follows:

$$\text{CO emissions (tons)} = \text{ECO} * (\text{TOT} / \text{TGD}) / 2000$$

where, ECO equals the total CO mass emissions (sum of the valid hours of CO mass emissions including all hourly CO mass emissions data acquired to meet the minimum data requirement) for the month, TOT equals the total operating time of the combustion turbine during the month, and TGD equals the number of hours of valid emissions data including all hourly emissions data acquired to meet the minimum data requirement contained in Condition 5.2.16. These records shall be maintained as part of the monthly record suitable for inspection or submittal.

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

- 6.2.26 For each combustion turbine and its paired duct burner at the end of each month, the twelve consecutive month CO mass emissions shall be the sum of its monthly CO mass emissions for that month plus its monthly CO mass emissions for the previous eleven consecutive months. These records shall be maintained as part of the monthly record suitable for inspection or submittal.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]

Verification of Compliance with Operational Limits

- 6.2.27 For each auxiliary boiler, its monthly heat input for each month (in MMBtu) shall be calculated as the product of the monthly quantity of natural gas and propane-air burned in that boiler (in cubic feet), as recorded in Condition 5.2.11.d., times the applicable heat content of each of those fuels (1020 Btu/scf for natural gas and 1380 Btu/scf for propane-

air). For each auxiliary boiler at the end of each month, a twelve consecutive month total heat input shall be the sum of the monthly heat input for that month plus the monthly heat inputs for the previous eleven consecutive months. These records shall be maintained as part of the monthly record suitable for inspection or submittal.

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

6.2.28 For each combustion turbine with emission unit ID Nos. CT4A and CT5A at the end of each month, the Permittee shall calculate the twelve consecutive month oil-fired operating time, which shall be the sum of its monthly oil-fired operating time for that month plus its monthly oil-fired operating time for the previous eleven consecutive months. These records shall be maintained as part of the monthly record suitable for inspection or submittal.

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

6.2.29 For each combustion turbine at the site firing distillate oil, the Permittee shall calculate the calendar-year, oil-fired operating time, which shall be the sum of the monthly oil-fired operating times recorded for that turbine as required by Condition 5.2.11.e or 5.2.11.f, as applicable, as of January of the calendar year in question. The aggregate calendar-year, oil-fired operating time for all combustion turbines at the site shall be the sum of each such unit's calendar-year oil-fired operating time. These records shall be maintained as part of the monthly record suitable for inspection or submittal.

[391-3-1-.02(6)(b)1 and 40 CFR Part 63, Subpart YYYY]

Reporting Requirements

6.2.30 The Permittee shall furnish the Division written notification as follows:

[40 CFR 52.21 and 40 CFR 60.7]

- a. A notification of the actual dates of commencement of construction of each combustion turbine and its paired duct burner and of each auxiliary boiler, postmarked within 15 days after such date. For purposes of this permit, the definition of "commence" is given in 40 CFR 52.21(b)(9).
- b. A notification of the actual dates of initial startup of each combustion turbine and its paired duct burner and of each auxiliary boiler, 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. A notification of the actual dates that the McDonough Steam Generating Units SGM1 and SGM2 have been permanently shut down, postmarked within 15 days after such date.
- d. Certifications that a final inspection has shown that construction of each combustion turbine and its paired duct burner and of each auxiliary boiler has been completed in accordance with the application, plans, specifications and supporting documents submitted in support of this permit.

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- e. Certifications that the McDonough Steam Generating Units SGM1 and SGM2 have been permanently shutdown before the commercial operation dates of the applicable combined-cycle systems as required by Conditions 3.3.14 and 3.3.15.

6.2.31 The Permittee shall submit a report of the following information for each quarterly period ending March 31, June 30, September 30, and December 31 of each year. The reports shall be postmarked by the 30th day following the end of the quarterly period (April 30, July 30, October 30, and January 30, respectively).
[40 CFR 52.21 and 40 CFR 60.7]

- a. Heat input to each auxiliary boiler (emission unit ID Nos. AB04, AB05 and AB06), for each month during the reporting period, using a heat content of 1020 Btu/scf for natural gas and a heat content of 1380 Btu/scf for propane-air.
- b. The twelve consecutive month total heat input to each auxiliary boiler (emission unit ID Nos. AB04, AB05 and AB06), for each twelve consecutive month period ending during the reporting period, using a heat content of 1020 Btu/scf for natural gas and a heat content of 1380 Btu/scf for propane-air.
- c. Monthly oil-fired operating time with ultra low sulfur diesel fuel by each combustion turbine with emission unit ID Nos. CT4A and CT5A for each month during the reporting period.
- d. The twelve consecutive month oil-fired operating time with ultra low sulfur diesel fuel by each combustion turbine with emission unit ID Nos. CT4A and CT5A for each twelve consecutive month period ending during the reporting period.
- e. The twelve consecutive month CO mass emissions from each combustion turbine and its paired duct burner for each twelve consecutive month period ending during the reporting period.
- f. Identification of each calendar month for which CO emissions data have not been obtained for 75 percent of the combustion turbine operating hours during the months in the reporting period, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- g. Identification of the Out-of-Control Periods (as defined in Appendix F, Procedure 1) for the CO CEMS during the quarterly reporting period.
- h. Results of any failed daily CO CEMS drift tests and subsequent passed tests and quarterly accuracy assessments under Appendix F, Procedure 1, during the reporting period.
- i. Results of quarterly CO CGAs under Appendix F, Procedure 1 during the reporting period.

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- 6.2.32 The Permittee shall submit to the Division the results of the Relative Accuracy Test Audits (RATA), required by Condition 5.2.15 for the CO CEMS, within forty-five (45) days of the completion of the RATA.
[391-3-1-.02(6)(b)1 and 40 CFR 52.21]
- 6.2.33 For each combustion turbine with emission unit ID Nos. CT4A, CT4B, CT5A, CT5B, CT6A, or CT6B, the Permittee must submit any applicable notification required in 40 CFR 63.8(f)(4) by the date specified. For each combustion turbine with emission unit ID Nos. CT4A or CT5A, if the Permittee requests to use an alternative monitoring procedure under 40 CFR Part 63, Subpart YYYY, the Permittee must submit written notification of intent. The notification of intent may be submitted at any time, provided that the alternative monitoring procedure is not the performance test method used to demonstrate compliance with a relevant standard or other requirement. If the alternative monitoring procedure will serve as the performance test method that is to be used to demonstrate compliance, the notification of intent must be submitted at least 60 days before the performance evaluation is scheduled to begin and must meet the requirements for an alternative test method under 40 CFR 63.7(f). That submittal shall include:
[40 CFR 63.6145(a)]
- a. A description of the proposed alternative monitoring system which addresses the four elements contained in the definition of monitoring: (1) indicator(s) of performance, (2) measurement techniques, (3) monitoring frequency and (4) averaging time.
 - b. A performance evaluation test plan, if required.
 - c. Information justifying the Permittee's request for the alternative monitoring procedure, such as the technical or economic infeasibility, or the impracticality, of the affected source using the required method.
 - d. Results of the Method 301(40 CFR Part 63, Appendix A) validation process for the alternative test method.
- 6.2.34 The Permittee must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii) for each combustion turbine with emission unit ID Nos. CT4A and CT5A before the close of business on the 60th day following the completion of any annual performance test for formaldehyde emissions from that unit, including the following:
[40 CFR 63.6145(f)]
- a. The methods that were used to determine compliance.
 - b. The results of any performance tests, opacity or visible emission observations, continuous monitoring system (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted.
 - c. The methods that will be used for determining continuing compliance, including description of monitoring and reporting requirements and test methods.

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- d. Records of the occurrence and duration of each malfunction of the catalytic oxidation control equipment, if applicable.
 - e. Records of all maintenance on the catalytic oxidation control equipment.
- 6.2.35 The Permittee must keep the following records:
[40 CFR 63.6155(a)]
- a. A copy of each notification and report that was submitted to comply with 40 CFR Part 63, Subpart YYYY, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted.
 - b. Records of performance tests and performance evaluations.
 - c. Records of occurrence and duration of each startup, shutdown or malfunction.
 - d. Records of the occurrence and duration of each malfunction of the catalytic oxidation control equipment, if applicable.
 - e. Records of all maintenance on the catalytic oxidation control equipment.
- 6.2.36 The Permittee shall maintain all applicable records in such a manner that they can be readily accessed and are suitable for inspection according to 40 CFR 63.10(b)(1). As specified in 40 CFR 63.10(b)(1), the Permittee shall keep records for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report or record. The Permittee shall retain these records for the most recent 2 years onsite. The records for the remaining 3 years may be retained offsite.
[391-3-1-.03(10)(d)1(i), 40 CFR 70.6 (a)(3)(ii)(B), and 40 CFR 63.6160(a), (b), and (c)]
- 6.2.37 The Permittee shall, in accordance with 40 CFR 63.6(f)(2)(iv), maintain records of the catalyst inlet temperature range suggested by the catalyst manufacturer, in such a manner that they can be readily accessed and are suitable for inspection. The Permittee shall submit the inlet temperature range suggested by the catalyst manufacturer as part of the Notification of Compliance Status required by Permit Condition 6.2.34, in accordance with 40 CFR 63.9(h)(2)(i).
[40 CFR 63.6(f)(2)(iv) and 40 CFR 63.9(h)(2)(i)]

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

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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

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

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INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Laboratories and Testing	1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	2
	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.	0
Pollution Control	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..	0
	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.	0
	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.	0
	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.	0
Industrial Operations	1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.	0
	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:	0
	i) Furnaces for heat treating glass or metals, the use of which do not involve molten materials or oil-coated parts.	0
	ii) Porcelain enameling furnaces or porcelain enameling drying ovens.	0
	iii) Kilns for firing ceramic ware.	0
	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.	0
	v) Bakery ovens and confection cookers.	0
	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:	1
	i) Activity is performed indoors; &	
	ii) No significant fugitive particulate emissions enter the environment; &	
	iii) No visible emissions enter the outdoor atmosphere.	
	4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche).	0
	5. Grain, food, or mineral extrusion processes	0
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.	0	
7. Equipment for the mining and screening of uncrushed native sand and gravel.	0	
8. Ozonization process or process equipment.	0	
9. Electrostatic powder coating booths with an appropriately designed and operated particulate control system.	0	
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.	0	
11. Equipment used exclusively for the mixing and blending water-based adhesives and coatings at ambient temperatures.	0	
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.	0	
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.	0	

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INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Storage Tanks and Equipment	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.	3
	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.	9
	3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.	7
	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.	1
	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.	1
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	<100
	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).	0

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Cooling towers with drift eliminators and plume abatement	3

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ATTACHMENT B (continued)

GENERIC EMISSION GROUPS

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

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

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

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

ATTACHMENT C**LIST OF REFERENCES**

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