



Jeb Bush
Governor

Department of Environmental Protection

Twin Towers Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Colleen M. Castille
Secretary

September 6, 2006

CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

James R. Frauen
Seminole Electric Cooperative, Inc.
Post Office Box 272000
Tampa, Florida 33688-2000

**RE: Seminole Power Plant Units 1 & 2
Modification to Conditions of Certification
DEP Case Number PA78-10J
OGC Case Number 06-1442**

ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear Mr. Frauen:

On February 13, 2006, Seminole Electric Cooperative, Inc. submitted a petition to the Department requesting a modification to the site certification for the Seminole Power Plant to authorize the upgrade of pollution control equipment and new on site construction including a wet detention stormwater management system. After review of the air pollution control system upgrades, on June 21, 2006, the Department issued Air Permit No. 1070025-004-AC. On March 28, 2005, the Department issued a revised Title V Air Operation Permit No. 1070025-003-AV. Pursuant to Condition XXV, §§ 403.516(1), F.S. and Rule 62-17.211(1), Florida Administrative Code (F.A.C.) the Department is modifying the Conditions of Certification for the Seminole Power Plant to conform to the newly issued and revised federal air permits.

On July 13, 2006, all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification. Additionally, on August 4, 2006, notice of the Department's intent to modify the Conditions of Certification for this facility was published in the Florida Administrative Weekly ("FAW"). Those notices specified that pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, F.A.C., all parties to the certification proceeding have 45 days from the issuance of the notice by mail to such party's last address of record in which file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice in the FAW to object in writing; that pursuant to Rule 62-

17.280(1)(c), F.A.C., failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue a Final Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for the Seminole Power Plant are hereby modified as follows:

I. Air

A. The construction and operation of Units No. 1 and 2 at the Seminole steam electric power plant site shall be in accordance with all applicable provisions of Chapters 62-210, 62-212, 62-213, 62-296, and 62-297, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with Air Permit No. 1070025-004-AC, and Title V Permit 1070025-003-AV each as attached in Appendix A and the following conditions of certification:

~~A. Emission Limitations~~

~~1. Stack emissions from Units 1 and 2 shall not exceed the following when burning bituminous coal:~~

~~a. SO₂ - 1.2 lb. per million Btu heat input, and 10 percent of the potential combustion concentration (90 percent reduction).~~

~~b. NO_x - 0.60 lb per million Btu heat input and 35 percent of the potential combustion concentration (65 percent reduction).~~

~~c. Particulates - 0.03 lb per million Btu heat input and 1 percent of the potential combustion concentration (99 percent reduction) when combusting solid fuel.~~

~~d. Compliance with the emission limitations and percent reductions in 1.a. and 1.b. shall be determined on a 30 day rolling average.~~

~~e. Compliance with the particulate matter emission limitation under 40 CFR 60.42a (a) (1) (paragraph 1.c., above) constitutes compliance with the percent reduction requirements for particulate matter and compliance with the nitrogen oxides emission limitation under 40 CFR 60.44a (a) (paragraph 1.b., above) constitutes compliance with the percent reduction requirements for nitrogen oxides.~~

~~2. The height of the boiler exhaust stack for Units No. 1 & 2 shall not be less than 675 ft. above grade.~~

~~Stack emissions from Units 1 and 2 shall comply with the following conditions when burning a mixture of coal and petroleum coke:~~

~~a. SO₂ Sulfur Dioxide Emissions~~

~~Unit 1: $E_{SO_2} = [(\%C_{HI}/100 * P_S * (1 - (\%R_0/100)))] + [(1 - (\%C_{HI}/100)) * (0.74 \text{ lb. SO}_2/\text{MMBtu})]$ (Eqn. 1)~~

~~Unit 2: $E_{SO_2} = [(\%C_{HI}/100 * P_S * (1 - (\%R_0/100)))] + [(1 - (\%C_{HI}/100)) * (0.72 \text{ lb. SO}_2/\text{MMBtu})]$ (Eqn. 2)~~

~~%C_{HI} = percent of coal on a heat input basis.~~

~~P_S = potential SO₂ combustion concentration (unwashed coal without emissions control systems) as defined by NSPS Subpart Da: lb SO₂/MMBtu 30 days rolling average~~

~~%R₀ = overall percent SO₂ reduction from Equation 19-21 of EPA Reference Method 19. Per NSPS Subpart Da, %R₀ must not be less than 90%, 30 day rolling average~~

~~Compliance with the lb per million Btu heat input emission limitations and percent reduction requirement shall be determined on a 30 day rolling average basis.~~

~~b. Nitrogen oxide emissions:~~

~~(1) 0.60 lb. Per million Btu heat input, and 35 percent of the potential combustion concentration (65 percent reduction). Compliance with the lb. per million Btu heat input emission limitation and percent reduction requirement shall be determined on a 30 day rolling average basis. Compliance with the 0.60 lb per million Btu heat input emission limitations shall also constitute compliance with the 65 percent reduction requirement; and~~

~~(2) 0.50 lb. per million Btu heat input determined on an annual average basis, when subject to the 40 C.F.R. 76.8 Early Election Program for Group 1, Phase II Boiler or in any year when petroleum coke is burned.~~

~~c. Particulate Matter Emissions~~

~~0.03 lb. per million Btu heat input, and 1 percent of the potential combustion concentration (99 percent reduction). Compliance with the 0.03~~

~~1b. per million Btu heat input emission limitation shall also constitute compliance with the 99 percent reduction requirement.~~

~~d. Carbon Monoxide Emissions~~

~~The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes did not result in a significant emissions increase of the pollutant when compared to the past actual coal levels. The carbon monoxide emissions shall be based on test results using EPA Method 10.~~

~~e. Sulfuric Acid Emission~~

~~The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes did not result in a significant emissions increase of the pollutant when compared to the past actual coal levels. The sulfuric acid mist emissions shall be based on test results using EPA Method 8.~~

~~f. Fuel Specifications~~

~~Fuel fired shall consist of coal and petroleum coke blends containing a maximum of 30 percent petroleum coke by weight. The maximum weight of the petroleum coke burned shall not exceed 186,000 pounds per hour (averaged over 24 hours). The petroleum coke sulfur content shall not exceed 7.0 percent by weight, dry basis.~~

~~3. Particulate emissions from the coal handling facilities:~~

~~a. The applicant shall not cause to be discharged into the atmosphere from any coal processing or conveying equipment, coal storage system or coal transfer and loading system processing coal, visible emissions which exceed 20 percent opacity. Particulate emissions shall be controlled by use of control devices having a removal efficiency of not less than 99.9%.~~

~~b. The applicant must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in~~

~~3.a., above. Such disapproval shall be issued within 30 days of receipt of the technical data.~~

~~4. Particulate emissions from the FGD sludge fixing facility shall be in compliance with Section 62-296.310(2).~~

~~5. Handling of Petroleum Coke~~

~~All prior conditions of approval that address coal handling shall also apply to the handling of petroleum coke.~~

~~6. For the Electric Utility Steam Generating Units When Burning No. 2 Fuel Oil Use of No. 2 fuel oil is authorized for startups, flame stabilization and required emergency electric reserve capacity. It is also authorized for normal continuous operation when coal quality, process conditions, and/or burner equipment prevent demand with solid fuels only.~~

~~B. Air Monitoring Program~~

~~1. The permittee shall install and operate continuous monitoring devices for the Units No. 1 & 2 boiler exhausts for sulfur dioxide, nitrogen dioxide and opacity. The monitoring devices shall meet the applicable requirements of Rule 62-296.800, F.A.C., and 40 CFR 60. The opacity monitor may be placed in the ductwork between the electrostatic precipitator and the FGD scrubber.~~

~~2. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.~~

~~3. The permittee shall provide sampling ports into the stack and shall provide access to the sampling ports in accordance with Rule 62-297.345, F.A.C., and 40 CFR 60.8.~~

~~4. The ambient monitoring program may be reviewed annually, beginning two years after start-up of Unit No. 2 by the Department and the permittee.~~

~~5. Prior to operation of the source, the applicant shall submit to the Department a standardized plan or procedure that will allow the applicant to monitor emission control equipment efficiency and enable the applicant to return malfunctioning equipment to proper operation as expeditiously as possible.~~

~~C. Stack Testing~~

~~1. Within 60 calendar days after achieving the maximum capacity at which each unit will be operated, but no later than 180 operating days after initial startup, the owner or operator shall conduct performance tests for particulates and SO₂ and furnish the Department a written report of the results of such performance tests.~~

~~2. Compliance tests for particulate matter shall be conducted and data reduced in accordance with Rule 62-297.330, Table 62-297.330-1, F.A.C.~~

~~3. Compliance tests shall be conducted under such conditions as the Department shall specify based on representative performance of the facility. The owner or operator shall make available to the Department such records as may be necessary for the Department to determine the appropriate operating conditions of the compliance tests.~~

~~4. The owner or operator shall provide 13 days prior written notice of the compliance tests to afford the Department the opportunity to have an observer present.~~

~~5. Compliance tests for particulates shall be performed annually during a testing period that commences not earlier than 60 days before and not later than 60 days after the anniversary date of the last compliance test in accordance with Conditions C.2, 3, and 4 above, provided that the requirements of Rule 62-297.340(1)(d), F.A.C., for testing each fiscal year (October 1 - September 30) are met. If the plant is shut down for reasons beyond the control of the owner such that testing during the normal testing period cannot be accomplished, the annual compliance test shall be performed within 60 days after the unit is restarted and reaches its normal commercial production rate.~~

~~6. SO₂ and NO_x Continuous Emission Monitors required by Rule 62-297.500, F.A.C., and 40 CFR 60 Subpart Da shall comply with the quality assurance requirements for continuous emission monitoring systems described in 40 CFR Part 60, Appendix F.~~

~~D. Reporting~~

~~1. For each Unit, stack monitoring, fuel usage and fuel analysis data shall be reported to the Department on a quarterly basis in accordance with Rule 62-296.800, F.A.C.~~

~~2. Beginning one month after certification the applicant shall submit to the Department a quarterly status report briefly outlining progress made on engineering~~

~~design and purchase of major pieces of equipment (including control equipment). All reports and information required to be submitted under this condition shall be submitted to the Administrator of Power Plant Siting, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.~~

~~3. Documentation verifying that the coal and petroleum coke fuel blends combusted in Units 1 and 2 have not exceeded the 30 percent maximum petroleum coke by weight limit specified by Condition of Approval, Section D, Item 6 shall be maintained and submitted to the Department's Northeast District Office with each annual report.~~

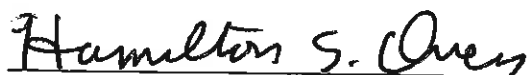
~~4. The Permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing Petroleum coke, data demonstrating that the operational changes associated with the use of petroleum coke did not result in a significant emission increase pursuant to Rule 62-240.200(12)(d), F.A.C.~~

B. Liquid Discharges

There shall be no discharge of liquids containing nitrogen compounds from the upgraded air pollution control systems to the Seminole Generating Station cooling water outfall to the St. Johns River until a revised NPDES permit is issued by the Department that reflects discharge limits for nitrogen compounds in accordance with the DEP's Total Maximum Daily Load limits for the St. Johns River.

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate District Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.



Hamilton S. Oven, P.E.

Administrator, Siting Coordination Office

FILING AND ACKNOWLEDGMENT
FILED, on this date, pursuant to §120.52
Florida Statutes, with the designated
Department Clerk, receipt of which is
hereby acknowledged.

Linda Kroskows 9-6-06
Clerk Date

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APPENDIX A

AIR PERMITS

PERMITTEE

Seminole Electric Cooperative, Inc.
16313 North Dale Mabry Highway
Tampa, FL 33618

Authorized Representative:
James R. Frauen, Project Director

Air Permit No. 1070025-004-AC Seminole Generating Station Units 1-2 Pollution Controls Upgrade Facility ID No. 1070025 SIC No. 4911 Permit Expires: December 31, 2009
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PROJECT AND LOCATION

This permit authorizes the construction and/or upgrade of pollution control equipment for Units 1 and 2 at the existing Seminole Generating Station, which is located at 890 North U.S. Highway 17, north of Palatka, in Putnam County, Florida. The map coordinates are: Zone 17; 438.80 km East; and 3289.20 km North.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403, F.S., and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C. The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department. This air construction permit supplements all other valid air construction and operation permits.

CONTENTS

- Section 1. General Information
- Section 2. Administrative Requirements
- Section 3. Emissions Units Specific Conditions
- Section 4. Appendices

Joseph Kahn, P.E., Acting Director
Division of Air Resource Management

(Date)

SECTION 1. GENERAL INFORMATION

FACILITY AND PROJECT DESCRIPTION

The existing Seminole Generating Station (SGS) consists of two 714.6 megawatt, electric, coal fired steam electric generators; a coal handling and storage system; a limestone unloading, handling and storage system; and a flue gas desulphurization (FGD) sludge stabilization system.

This project includes the replacement of the low NO_x burners; the addition of SCRs, an alkali injection system and carbon burnout (CBO); and improvements to the existing FGD system and steam turbines. The following units are affected by this air construction permit:

EMISSION UNIT NO.	SYSTEM	EMISSION UNIT DESCRIPTION
001	Steam Generation	SGS (Existing) Unit 1 upgraded to 735.9 MW
002	Steam Generation	SGS (Existing) Unit 2 upgraded to 735.9 MW
009	Materials Handling	Carbon Burn-Out (CBO™) Feed Fly Ash Silo (New)
010	Materials Handling	CBO™ Product Fly Ash Storage Dome (New)
011	Materials Handling	CBO™ Product Fly Ash Loadout Storage Silo (New)
012	Materials Handling	CBO™ Product Fly Ash Fugitives (New)
013	Hot Water Generation	CBO™ Process Fluidized Bed Combustor (New) NSPS Subpart Db

REGULATORY CLASSIFICATION

Title III: The existing facility is a major source of hazardous air pollutants (HAP).

Title IV: The existing facility operates units subject to the acid rain provisions of the Clean Air Act.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

PSD: The existing facility is a PSD-major facility in accordance with Rule 62-212.400, F.A.C., although this project does not trigger a PSD Review.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

Permitting Authority: All documents related to applications for permits to construct, modify, or operate emissions units at this facility shall be submitted to the Bureau of Air Regulation of the Florida Department of Environmental Protection (DEP) at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all permit applications shall also be sent to the Compliance Authority.

Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department's Northeast District Office at 7825 Baymeadows Way, Suite B200, Jacksonville, Florida 32256-7577.

Appendices: The following Appendices are attached as part of this permit: Appendix GC (General Conditions).

Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S. and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-4, 62-204.800, 62-210.300 and 62-210.900, F.A.C.]

New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

Construction Approval: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Rule 62-210.200(76), F.A.C. defines *construction* as, "Construction –

(a) The act of performing on-site fabrication, erection, installation or modification of an emissions unit or facility of a permanent nature, including installation of foundations or building supports; laying of underground pipe work or electrical conduit; and fabrication or installation of permanent storage structures, component parts of an emissions unit or facility, associated support equipment, or utility connections. Land clearing and other site preparation activities are not a part of the construction activities.

(b) For the purposes of Rules 62-212.300, 62-212.400, 62-212.500, and 62-212.720, F.A.C., construction means any physical change or change in the method of operation (including fabrication, erection, installation, or modification of an emissions unit) that would result in a change in emissions.

(c) For the purposes of the provisions of 40 CFR Parts 60 and 61, adopted by reference in Rule 62-204.800, F.A.C., construction means fabrication, erection, or installation of an affected facility.

(d) For the purposes of the provisions of 40 CFR Part 63, adopted by reference in Rule 62-204.800, F.A.C., construction means the on-site fabrication, erection, or installation of an affected source. Construction does not include the removal of all equipment comprising an affected source from an existing location and reinstallation of such equipment at a new location. The owner or operator of an existing affected source that is relocated may elect not to reinstall minor ancillary equipment including piping, ductwork, and valves. However, removal and reinstallation of an affected source will be construed as reconstruction if it satisfies the criteria for reconstruction as defined in this section. The costs of replacing minor ancillary equipment must be considered in determining whether the existing affected source is reconstructed." Such permits shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS

Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V operation permit is required for regular operation of the permitted emissions units. The permittee shall apply for a Title V operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after completion of work and commencing operation. To apply for a Title V operation permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. [Rules 62-4.030, 62-4.050, 62-4.220, and Chapter 62-213, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

This section of the permit addresses the following existing emissions units:

Emissions Unit Nos. 001 and 002

Steam Electric Generator Nos. 1 and 2 are existing, coal fired utility, dry bottom wall-fired boilers, each having a maximum generator rating of 714.6 megawatts, electric. The maximum heat input to each emissions unit is 7,172 million Btu per hour. Steam Electric Generator Nos. 1 and 2 are each equipped with an electrostatic precipitator (ESP) to control particulate matter, a wet limestone flue gas desulphurization (FGD) unit to control sulfur dioxide, and low NO_x burners and low excess-air firing to control nitrogen oxides.

{Permitting note(s): IMPORTANT REGULATORY CLASSIFICATIONS - The emissions units are regulated under Acid Rain, Phase II and Phase I; NSPS - 40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, adopted and incorporated by reference in Rule 62-204.800(7), F.A.C.; Rule 212.400(5), F.A.C., Prevention of Significant Deterioration (PSD); and Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated August 9, 1979. Steam Electric Generator No. 2 began commercial operation in 1984 and Steam Electric Generator No. 1 began commercial operation in 1985.}

PREVIOUS APPLICABLE REQUIREMENTS

1. Other Permits: The conditions of this permit supplement all previously issued air construction and operation permits for this emissions unit. Unless otherwise specified, these conditions are in addition to all other applicable permit conditions and regulations. [Rule 62-4.070, F.A.C.]

EQUIPMENT AND CONSTRUCTION

2. Flue Gas Desulphurization System (FGD) Upgrade: In order to reduce the emissions of sulfur dioxide, the permittee shall make upgrades to the existing Units 1 and 2 scrubbers so as to improve the SO₂ removal efficiency from approximately 87 to 95%. The improvements may include the following types of work: scrubber module modifications, upgrades to the modules mist eliminator wash system, expansion of the oxidation air system, modifications to the existing sparger rings in the absorber recycle tanks, upgrades to the Effluent Processing Facility (EPF) System and a new gypsum conveyor system. The upgrades will allow SGS to meet the 0.67 lb/MMBtu SO₂ emission limits specified in this permit. [Design]
3. Selective Catalytic Reduction (SCR) Systems: The permittee shall construct, tune, operate, and maintain a new SCR system for Units 1 and 2, to reduce emissions of nitrogen oxides (NO_x) as described in the application. The SCR system shall be designed to achieve a NO_x emission rate of no more than 0.07 lb/MMBtu. An SCR reagent system shall be installed, consisting of a new urea to ammonia processing system and associated bulk storage systems. The SCR system shall be designed for a maximum ammonia slip rate of 5 ppmvd @ 15% O₂. [Design]
4. Low NO_x Burner Replacement: The permittee shall replace, tune, operate and maintain low NO_x burners on Units 1 and 2. Additionally, the existing burner inlet systems will be modified to ensure even air flow, and the Overfire Air System (OFA) will be modified to utilize at least six ports per wall compared with the existing system design of four ports per wall. These replacements are designed to achieve the Acid Rain Program NO_x annual average emission limit of 0.46 lb/MMBtu, which will be effective in 2008. [Design]
5. Alkali Injection System: The permittee shall construct and operate a new alkali injection system on Units 1 and 2 to mitigate the potential impacts of SO₃ formation resulting from the operation of the SCR control systems. The design criteria shall ensure that sulfuric acid mist emissions do not

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

increase above the sulfuric acid mist emissions baseline. [Design]

6. Turbine Upgrade: Each existing steam turbine for Units 1 and 2 shall be upgraded for increased unit efficiency, and in order to recover portions of the lost electrical output from powering the above additions. Such efficiency improvements may include blade and/or rotor redesigns and replacements. The nominal gross MW rating per unit will increase from 714.6 to 735.9 MW although each boiler maximum heat input will remain at 7,172 MMBtu/hr. [Design]

PERFORMANCE REQUIREMENTS

This permit does not alter any specifications or limitations included in previous permits that define permitted capacities such as heat input rates, fuel consumption, or hours of operation. It does not authorize any additional fuels or such other methods of operation.

EMISSIONS STANDARDS

A concurrent application is being processed for a new SGS Unit 3. Where affected, the below emission standards are shown for this project (Pollution Control Upgrades) as "interim" limits which become effective once all upgrades are complete. As of the first monitoring period following the establishment of initial coal fires in SGS Unit 3, the latter "permanent" emission limits will become effective.

7. Sulfur Dioxide (SO₂):

- a. The interim Sulfur Dioxide emissions from Units 1 and 2 shall not exceed 0.67 lb/MMBtu (combined for Units 1 and 2), based upon a 24 hour block average via CEMS.
- b. The permanent limits shall be 0.38 lb/MMBtu (combined for Units 1 and 2), based upon a 24 hour block average via CEMS.
- c. The combined emission rate shall be computed by adding the total lbs emitted for both Units 1 and 2, divided by the total MMBtu heat input for both Units 1 and 2 for each 24-hour block period.

[PSD Avoidance]

8. Nitrogen Oxides (NO_x):

- a. The interim Nitrogen Oxide emissions from Units 1 and 2 shall not exceed 0.46 lb/MMBtu, based upon a 12-month rolling average. Compliance shall be determined by data collected from the certified continuous emissions monitor (CEM).
- b. The permanent limits shall be 0.33 lb/MMBtu (combined for Units 1 and 2), based upon a 12-month rolling average via CEMS.
- c. The combined emission rate shall be computed by adding the total lbs emitted for both Units 1 and 2, divided by the total MMBtu heat input for both Units 1 and 2 for each 12-month rolling period.

- d. When operating the CBO fluidized bed combustor, the affected Steam Electric Generating Unit shall not exceed 0.20 lb/MMBtu NO_x emissions based on a 30-day rolling average via CEMS.

[40 CFR Parts 72 and 76; NSPS Subpart Db and PSD Avoidance]

9. Carbon Monoxide (CO)/Volatile Organic Compounds (VOC): The emission of Carbon Monoxide shall not exceed 12,565 TPY based upon a 12-month rolling total. The existing CO emission monitors which are installed in the stack shall be certified according to 40 CFR Part 60 and the data collected shall be combined and utilized to demonstrate compliance annually. Also, initial performance test data shall be submitted to demonstrate compliance with the burner CO guarantee of 0.20 lb/MMBtu. For VOC, an initial stack test (only) shall be required in order to

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

demonstrate that the emissions do not exceed the established baseline emission rate of 0.06 lb/ton of coal. Testing shall be according to EPA Method 18, 25, 25A or 25B.
[PSD Avoidance]

10. Sulfuric Acid Mist (SAM):

- a. The interim Sulfuric Acid Mist emissions from Units 1 and 2 shall not exceed 0.096 lb/MMBtu, based upon an initial stack test (only) via EPA Method 8 or 8A.
- b. The permanent limits shall be 0.031 lb/MMBtu (combined for Units 1 and 2), based upon annual stack test via EPA Method 8 or 8A.
- c. The combined emission rate shall be computed measuring the lb/MMBtu emission rate on each unit, multiplying each unit's maximum emission rate by its annual heat input (MMBtu), adding the total lbs emitted for both Units 1 and 2, and dividing by the total MMBtu heat input for both Units 1 and 2.

[PSD Avoidance]

11. Particulate Matter (PM/PM₁₀): The emission limit for particulate matter shall not exceed 0.03 lb/MMBtu on each individual unit, as measured by an annual stack test via EPA Method 5B.
[Current Title V Limit]

12. Mercury (Hg): The permanent emission limitation for mercury shall be 0.059 tons per year (combined for Units 1, 2 and any future emission units), based upon annual stack tests via EPA Method 101A or 108 or CEMS (when operational and certified). The combined total shall be computed by measuring the lb/MMBtu emission rate on each unit, multiplying each unit's emission rate by its annual heat input (MMBtu) and adding the total lbs emitted, divided by 2000. [Requested by Applicant]

EMISSIONS PERFORMANCE TESTING

13. Test Notification: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. The notification shall include: the scheduled date, approximate start time, test team, contact name and phone number, description of unit to be tested, and the tests to be performed. [Rule 62-297.310(7)(a)9, F.A.C.]
14. Ammonia Slip, Performance Tests: Within 60 days after completing construction of each SCR system and bringing each unit on line, the permittee shall conduct tests to determine the ammonia slip rate in accordance with EPA Method CTM-027 or other methods approved by EPA. Subsequent tests shall be conducted during each federal fiscal year. If tests show ammonia slip emissions are greater than 5 ppmvd @ 15% O₂, the permittee shall take corrective actions such as repair, addition of catalyst, replacement of catalyst, etc. The corrective actions which are taken shall be submitted with the test data. [Rules 62-4.070(3) and 62-297.310(7), F.A.C.]

CONTINUOUS MONITORING REQUIREMENTS

15. NO_x and SO₂ CEMS: The permittee shall demonstrate compliance with the emissions standards specified in this permit with data collected from the existing NO_x, SO₂, CO₂, and stack gas flow rate continuous monitors installed pursuant to the Acid Rain requirements. [Rules 62-4.070(3) and 62-212.400, F.A.C.]
16. CO CEMS: To demonstrate compliance, the permittee shall certify, calibrate, operate and maintain a continuous emissions monitoring system (CEMS) to continuously monitor and record the emissions of carbon monoxide. The existing Thermo Electron Corp Model 48C monitors may be utilized for this purpose, provided that they are able to demonstrate compliance with 40 CFR 60 Appendix B, Performance Specification 4 and Appendix F, Quality Assurance Procedures. CEMS shall monitor and record data during all periods of Units 1 and 2 operation, including startup,

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

shutdown, malfunction or emergency conditions, but not including continuous monitoring system breakdowns, repairs, calibration checks, or zero and span adjustments. For each calendar quarter, monitor availability shall be 95% or greater. If unable to achieve this level, the permittee shall submit a report identifying the problems in achieving 95% monitor availability and a plan of corrective actions. The permittee shall implement the reported corrective actions within the next calendar quarter. [Rules 62-4.070(3), F.A.C. and requested by applicant]

RECORDS AND REPORTS

17. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the provisions of Rule 62-297.310(8), F.A.C. The report shall include copies of the continuous monitoring records. Additionally, an official notification shall be made to the Compliance Authority 72 hours prior to the establishment of initial coal fires in SGS Unit 3, for the purpose of complying with the limits herein.

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

This section of the permit addresses the following emissions units:

EMISSION UNIT NO.	SYSTEM	EMISSION UNIT DESCRIPTION
009	Materials Handling	Carbon Burn-Out (CBO™) Feed Fly Ash Silo
010	Materials Handling	CBO™ Product Fly Ash Storage Dome
011	Materials Handling	CBO™ Product Fly Ash Loadout Storage Silo
012	Materials Handling	CBO™ Product Fly Ash Fugitives
013	Hot Water Generation	CBO™ Process Fluidized Bed Combustor NSPS Subpart Db

DESIGN AND ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. CBO™ Process Fluidized Bed Combustor: The maximum design heat input rate to the CBO™ Process Fluidized Bed Combustor (EU-013) shall be 114.7 MMBtu/hr. The emissions from the CBO™ Process Fluidized Bed Combustor shall be routed back to Units 1 and 2 flue gas ductwork, upstream of the ESP, SCR and FGD System, so as to ensure that emissions are minimized. [Design; Rules 62-210(PTE) and 62-4.070(3), F.A.C.]
2. Baghouse Controls: Particulate emissions from Emission Units Nos. 009, 010 and 011 shall be controlled by baghouses that are designed, operated, and maintained to achieve a particulate matter design specification of 0.01 grains/acf of exhaust. New and replacement bags shall meet these specifications based on vendor design information. No particulate matter emissions tests are required. The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Design; Rules 62-4.070(3) and 62-210.650, F.A.C.]
3. Hours of Operation: Emission Unit Numbers 009, 010, 011, 012 and 013 associated with the Carbon Burnout Unit are each allowed to operate continuously (8760 hrs/yr). [Rule 62-210.200(PTE), F.A.C.]

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

4. Authorized Fuels: Only fly ash generated from EU-001 and 002 may be used as fuel for the CBO™ Process Fluidized Bed Combustor (EU-013), except for the purposes of start-up. Start-up fuel shall be distillate fuel oil, limited to 0.5% sulfur and 14,300 gallons per calendar year. Records of fuel oil consumed for EU-013, demonstrating compliance with this condition shall be kept on-site so as to be readily available for review. Additionally, SGS shall totalize fuel usage data for annual (AOR) reporting. [Design; Rule 62-4.070(3), F.A.C.]
5. NSPS Provisions: EU-013 shall comply with the requirements of 40 CFR 60, Subpart Db. As a result of the configuration identified in above Condition 1, demonstration of the Subpart limits shall be allowed via the existing SGS Units 1 and 2 CEMS and stack testing. SGS shall include this demonstration upon initial installation and annually thereafter. [Note: Due to the configuration, there will be no practical method to test the CBO™ Unit separately. However, the combined emissions from the steam generating unit with the CBO™ Unit (when operating) shall comply with the NSPS NO_x limit of 0.20 lb/MMBtu on a 30 day rolling average via CEMS. The CBO™ Unit exhaust shall only be routed to one unit at a time.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

6. Baghouse Exhausts: As determined by EPA Method 9 observations, visible emissions shall not exceed 5% opacity from each baghouse exhaust point for Emissions Unit Nos. 009, 010 and 011. [Design; Rules 62-4.070(3), 62-210.650, and 62-297.620(4) F.A.C.]
7. Fugitive Dust Control: The following requirements shall be met to minimize fugitive dust emissions from the storage and handling facilities, including haul roads and CBO-related operations:
 - a. All conveyors and conveyor transfer points will be enclosed to the extent practical, so as to preclude PM emissions.
 - b. Water sprays or chemical wetting agents and stabilizers will be applied to storage piles, handling equipment, roadways, etc. as necessary to minimize opacity.
8. Maximum Expected Emissions: The following table identifies the maximum expected emissions, design specifications and fugitives associated with the CBO™ Process. This table is shown for convenience purposes and does not represent additional, allowable emission limitations beyond those listed within the permit. [Design]

Emissions Unit No.	Control Device	Exhaust Flow Rate (dscfm)	PM Emission Rate (gr/dscf)	PM Emission Rate (lb/hr)	PM Emission Rate (TPY)
009	Baghouse	3,000	0.01	0.3	1.1
010	Baghouse	6,000	0.01	0.5	2.3
011	Baghouse	6,000	0.01	0.5	2.3
012	Paved Roads; Watering	---	---	0.1	0.2
TOTALS				1.4	5.8

TEST METHODS AND PROCEDURES

9. Test Notification: At least 15 days prior to the date on which each formal compliance test is to begin, the permittee shall notify the Compliance Authority of: the date, time, and place of the test; and the contact person who will be responsible for coordinating and having the test conducted. [Rule 62-297.310(7)(a)9, F.A.C.]
10. Compliance Tests: Each baghouse exhaust point for EU-009, EU-010, and EU-011 shall be tested to demonstrate initial compliance with the specified opacity standard. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. Thereafter, each baghouse exhaust point for EU-009, EU-010, and EU-011 shall be tested to demonstrate compliance with the specified opacity standard during each federal fiscal year (October 1st to September 30th) and within the 12-month period prior to renewing the operation permit. [Rule 62-297.310(7)(a)1 and 4, F.A.C.]
11. Test Procedures: All tests shall be conducted in accordance with EPA Method 9, which is described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. Tests shall also comply with the applicable requirements of Rule 62-297.310, F.A.C. Tests shall be conducted in accordance with all applicable requirements of Chapter 62-297, F.A.C. The minimum observation period for a visible emissions compliance test shall be thirty (30) minutes. The observation period shall include the period during which the highest opacity can reasonably be expected to occur. [Rules 62-204.800 and 62-297.310(4) and (5), F.A.C.; 40 CFR 60, Appendix A]
12. Special Compliance Tests: When the Compliance Authority, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment)

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. EU 001 and 002 - Boilers No. 1 and 2

to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Compliance Authority. [Rule 62-297.310(7)(b), F.A.C.]

Seminole Electric Cooperative, Inc.
Seminole Generating Station
Facility ID No.: 1070025
Putnam County

Title V Air Operation Permit REVISION

FINAL Permit Project No.: 1070025-003-AV

(1st Revision to Renewed Title V Permit No.: 1070025-002-AV)

Permitting Authority:
State of Florida
Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Permitting North Section
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Telephone: 850/488-0114
Fax: 850/922-6979

Compliance Authority:
Department of Environmental Protection
Northeast District Office
7825 Baymeadows Way, Suite 200B
Jacksonville, Florida 32256-7590
Telephone: 904/807-3300
Fax: 904/448-4319

Title V Air Operation Permit REVISION

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Permittee:

Seminole Electric Cooperative, Inc.
16313 North Dale Mabry Highway
Tampa, Florida 33618
REVISION

FINAL Permit No.: 1070025-003-AV**Facility ID No.:** 1070025**SIC Nos.:** 49, 4911**Project:** Title V Air Operation Permit

The purpose of this permit is to revise Title V Air Operation Permit, No. **1070025-002-AV**, for the operation of the Seminole Generating Station, to reflect the authorized removal of the ambient monitoring station and to replace Appendix TV-4, Title V Conditions (version dated 02/12/02) with Appendix TV-5, Title V Conditions (version dated 03/28/05). This facility is located east of U.S. Highway 17, approximately seven miles north of Palatka, Putnam County.

This Title V air operation permit REVISION is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix U-1, List of Unregulated Emissions Units and/or Activities

Appendix I-1, List of Insignificant Emissions Units and/or Activities

Appendix TV-5, Title V Conditions (version dated 03/28/05)

APPENDIX SS-1, STACK SAMPLING FACILITIES (version dated 10/07/96)

TABLE 297.310-1, CALIBRATION SCHEDULE (version dated 10/07/96)

FIGURE 1 - SUMMARY REPORT-GASEOUS AND OPACITY EXCESS EMISSION AND
MONITORING SYSTEM PERFORMANCE REPORT (40 CFR 60; July 1996)

Appendix 40 CFR 60 Subpart A - General Provisions (version dated 07/01/03)

Phase II Acid Rain Application/Compliance Plan received 06/08/04

Phase II NO_x Compliance Plan dated 06/29/04.

Attachment Seminole Electric Cooperative: Protocol for Startup and Shutdown

Appendix CAM

Seminole Electric Cooperative, Inc.: Support Systems Operation Manual Plant Practice Section

Effective Date: January 1, 2005**Renewal Application Due Date:** July 5, 2009**1st Revision Effective date:** December 19, 2005**Expiration Date:** December 31, 2009

Michael G. Cooke, Director
Division of Air Resource Management

MGC/jk/jh

Section I. Facility Information.

Subsection A. Facility Description.

This facility consists of two 714.6 megawatt, electric, coal fired steam electric generators; a coal handling and storage system; a limestone unloading, handling and storage system; a flue gas desulfurization (FGD) sludge stabilization system; and a rail car maintenance facility.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the Title V Air Operation Permit Renewal application received July 2, 2004, this facility is a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Steam Electric Generator No. 1
-002	Steam Electric Generator No. 2
-004	Coal Storage Yard
-005	Limestone and FGD Sludge Handling and Storage

Unregulated Emissions Units and/or Activities

-006	One or more emergency generators not subject to the Acid Rain Program
-007	One or more heating units and general purpose internal combustion engines not subject to the Acid Rain Program
-008	General plant fugitives including plant-wide abrasive blasting, painting, moveable abrasive blast material bin, soil borrow pit, and vehicular travel on unpaved roads.

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Table 1-1, Summary of Air Pollutant Standards and Terms

Table 2-1, Summary of Compliance Requirements

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Appendix H-1, Permit History

Seminole Electric Cooperative, Inc.
Seminole Generating Station

FINAL Permit No.: 1070025-003-AV
Facility ID No.: 1070025

These documents are on file with the permitting authority:

Title V Permit REVISION Application received July 2, 2004.

Statement of Basis

Proposed Permit was posted for EPA Review on November 12, 2004.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-5, TITLE V CONDITIONS, is a part of this permit.

{Permitting note: APPENDIX TV-5, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

2. **Not federally enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

4. Prevention of Accidental Releases (Section 112(r) of CAA).

a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
Post Office Box 1515
Lanham-Seabrook, Maryland 20703-1515
Telephone: 301/429-5018

and,

b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
[40 CFR 68]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]

6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds Emissions or Organic Solvents Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), F.A.C.]

8. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-5, TITLE V CONDITIONS):

The following requirements are "not federally enforceable":

- a. Chemical or water application to unpaved roads and unpaved yard areas;
- b. Paving and maintenance of roads, parking areas and plant grounds;
- c. Landscaping or planting of vegetation;
- d. Confining abrasive blasting where possible; and,
- e. Other techniques as necessary.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by the applicant in the renewal Title V permit application received July 2, 2004.]

9. When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one.

[Rule 62-213.440, F.A.C.]

10. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

(1)

(2) *{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-5, TITLE V CONDITIONS.)}*

(3)

11. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northeast District office:

Department of Environmental Protection, Northeast District Office

7825 Baymeadows Way, Suite 200B

Jacksonville, Florida 32256-7590

Telephone: 904/807-3300; Fax: 904/448-4319

12. Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency, Region 4

Air, Pesticides & Toxics Management Division

Air and EPRCA Enforcement Branch

Air Enforcement Section

61 Forsyth Street

Atlanta, Georgia 30303

Telephone: 404/562-9155; Fax: 404/562-9163

13. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct

Seminole Electric Cooperative, Inc.
Seminole Generating Station

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information.

[Rule 62-213.420(4), F.A.C.]

Section III. Emissions Unit(s) and Conditions.

Subsection A. This section addresses the following emissions units.

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Steam Electric Generator No. 1
-002	Steam Electric Generator No. 2

Steam Electric Generator Nos. 1 and 2 are coal fired utility, dry bottom wall-fired boilers, each having a maximum generator rating of 714.6 megawatts, electric. The maximum heat input to each emissions unit is 7,172 million Btu per hour. Steam Electric Generator Nos. 1 and 2 are each equipped with an electrostatic precipitator (ESP) to control particulate matter, a wet limestone flue gas desulfurization (FGD) unit to control sulfur dioxide, and low NO_x burners and low excess-air firing to control nitrogen oxides.

{Permitting note(s): IMPORTANT REGULATORY CLASSIFICATIONS - The emissions units are regulated under Acid Rain, Phase II and Phase I; NSPS - 40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, adopted and incorporated by reference in Rule 62-204.800(7), F.A.C.; Rule 212.400(5), F.A.C., Prevention of Significant Deterioration (PSD); and Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated August 9, 1979. Steam Electric Generator No. 2 began commercial operation in 1984 and Steam Electric Generator No. 1 began commercial operation in 1985. Units 1 and 2 are subject to CAM for monitoring controlled emissions of particulate matter. Units 1 and 2 are not subject to CAM for controlled emissions of SO₂ because CEMS are used for continuous compliance. Units 1 and 2 are not subject to CAM for NO_x because there are no add-on control devices.}

The following specific conditions apply to the emissions unit(s) listed above:

{Permitting note: In addition to the requirements listed below, these emissions units are also subject to the standards and requirements contained in the Acid Rain Part of this permit (see Section IV).}

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum operation heat input rate is as follows:

<u>Emissions Unit No.</u>	<u>MMBtu/hr Heat Input</u>
-001	7,172
-002	7,172

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for heat input. Instead the owner or operator is expected to determine heat input whenever emission testing is required, to demonstrate at what percentage of the rated capacity that the unit was tested. Rule 62-297.310(5), F.A.C., included in the permit, requires measurement of the process variables for emission tests. Such heat input determination may be based on measurements of fuel consumption by various methods including but not limited to

fuel flow metering or tank drop measurements, using the heat value of the fuel determined by the fuel vendor or the owner or operator, to calculate average hourly heat input during the test.}

A.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **A.47**.
[Rule 62-297.310(2), F.A.C.]

A.3. Methods of Operation. Fuel(s). The only fuels allowed to be fired are coal, coal with a maximum of 30 percent petroleum coke (by weight), No. 2 fuel oil, and on-specification used oil. The maximum weight of petroleum coke burned shall not exceed 186,000 pounds per hour (averaged over 24 hours), see **Specific Condition A.66**. On-specification used oil containing any quantifiable levels of PCBs can only be fired when the emissions unit is at normal operating temperatures.
[Rule 62-213.410(1), F.A.C.; 40 CFR 271.20(e)(3); and PSD-FL-018(A)]

{Permitting note: The fuel restrictions specified in Specific Condition **A.3.** apply to each emissions unit.}

A.4. Hours of Operation. These emissions units are allowed to operate continuously, i.e., 8,760 hours/year.
[Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: Unless otherwise specified, the averaging times for Specific Conditions **A.5.** through **A.17.** are based on the specified averaging time of the applicable test method.}

A.5. Particulate Matter. No owner or operator subject to the provisions of 40 CFR 60, Subpart Da shall cause to be discharged into the atmosphere from any affected facility any gases which contain particulate matter in excess of:

- (1) 13 ng/J (0.03 lb/million Btu) heat input derived from the combustion of coal or fuel oil;
- (2) 1 percent of the potential combustion concentration (99 percent reduction) when combusting solid fuel; and
- (3) 30 percent of potential combustion concentration (70 percent reduction) when combusting liquid fuel.

[40 CFR 60.42a(a) and PSD-FL-018]

A.6. Particulate Matter. No owner or operator shall cause to be discharged into the atmosphere when combusting a coal and petroleum coke blend any gases which contain particulate matter in excess of 0.03 lb/million Btu heat input, and one percent of the potential combustion concentration (99 percent reduction). Compliance with the 0.03 lb/million Btu heat input emission limitation shall also constitute compliance with the 99 percent reduction requirement.
[PSD-FL-018(A)]

A.7. Visible Emissions. No owner or operator subject to the provisions of 40 CFR 60, Subpart Da shall cause to be discharged into the atmosphere from any affected facility any gases which exhibit greater than 20 percent opacity (6 minute average), except for one 6-minute period per hour of not more than

percent opacity.
[40 CFR 60.42a(b)]

A.8. Sulfur Dioxide (Coal, Only). No owner or operator subject to the provisions of 40 CFR 60, Subpart Da shall cause to be discharged into the atmosphere from any affected facility which combusts coal any gases which contain sulfur dioxide in excess of:

- (1) 520 ng/J (1.20 lb/million Btu) heat input and 10 percent of the potential combustion concentration (90 percent reduction), or
- (2) 30 percent of the potential combustion concentration (70 percent reduction), when emissions are less than 260 ng/J (0.60 lb/million Btu) heat input.

[40 CFR 60.43a(a)(1) & (2); and, PSD-FL-018]

A.9. Sulfur Dioxide. No owner or operator subject to the provisions of 40 CFR 60, Subpart Da shall cause to be discharged into the atmosphere from any affected facility which combusts liquid fuel any gases which contain sulfur dioxide in excess of:

- (1) 340 ng/J (0.80 lb/million Btu) heat input and 10 percent of the potential combustion concentration (90 percent reduction), or
- (2) 100 percent of the potential combustion concentration (zero percent reduction), when emissions are less than 86 ng/J (0.20 lb/million Btu) heat input.

[40 CFR 60.43a(b)(1) & (2); and, PSD-FL-018]

A.10. Sulfur Dioxide. Compliance with the emission limitation and percent reduction requirements are both determined on a 30-day rolling average basis.

[40 CFR 60.43a(g)]

A.11. Sulfur Dioxide. When coal and fuel oil are combusted simultaneously, the applicable standard is determined by proration using the following formula:

$$PS_{SO_2} = X(340) + Y(520) / 100$$

where:

PS_{SO_2} is the prorated standard for sulfur dioxide when combusting coal and fuel oil simultaneously (ng/J heat input).

X is the percentage of total heat input derived from the combustion of fuel oil.

Y is the percentage of total heat input derived from the combustion of coal.

[PSD-FL-018]

A.12. Sulfur Dioxide. Stack emissions from Units 1 and 2 shall comply with the following standards when burning blends of coal and petroleum coke:

(1) Unit 1:

$$E_{SO_2} = [(\%C_{HI} / 100) * (P_S) * (1 - (\%R_O / 100))] + [(1 - (\%C_{HI} / 100)) * (0.74 \text{ lb } SO_2 / \text{MMBtu})]$$

(2) Unit 2:

$$E_{SO_2} = [(\%C_{HI} / 100) * (P_S) * (1 - (\%R_O / 100))] + [(1 - (\%C_{HI} / 100)) * (0.72 \text{ lb } SO_2 / \text{MMBtu})]$$

where:

E_{SO_2} = allowable SO_2 emission rate; pounds per million Btu heat input (lb SO_2 /MMBtu), 30-day rolling average.

$\%C_{HI}$ = percent of coal used on a heat input basis.

P_S = potential SO_2 combustion concentration (unwashed coal without emission control systems) as defined by NSPS Subpart Da; lb SO_2 /MMBtu, 30-day rolling average.

$\%R_O$ = overall percent SO_2 reduction from Equation 19-21 of EPA Reference Method 19. Per NSPS Subpart Da, $\%R_O$ must not be less than 90%, 30-day rolling average.

0.74 = historical 2-year annual average SO_2 emission rate for Unit 1, lb/MMBtu.

0.72 = historical 2-year annual average SO_2 emission rate for Unit 2, lb/MMBtu.

Compliance with the lb/MMBtu heat input emission limitations and percent reduction requirement shall be determined on a 30-day rolling average basis.
[PSD-FL-018(A)]

A.13. Sulfur Dioxide. The petroleum coke sulfur content shall not exceed 7.0 percent by weight, dry basis.
[PSD-FL-018(A)]

A.14. Nitrogen Oxides. No owner or operator subject to the provisions of 40 CFR 60, Subpart Da shall cause to be discharged into the atmosphere from any affected facility any gases which contain nitrogen oxides in excess of the following emission limits, based on a 30-day rolling average.
(1) NO_x emissions limits. Bituminous coal emission limit for heat input: 260 ng/J (0.60 lb/million Btu); All other liquid fuels emission limit for heat input: 130 ng/J (0.30 lb/million Btu).
(2) NO_x reduction requirement. Solid fuels: 65 percent reduction of potential combustion concentration; Liquid fuels: 30 percent reduction of potential combustion concentration.
[40 CFR 60.44a(a)(1) & (2)]

A.15. Nitrogen Oxides. When coal and fuel oil are combusted simultaneously, the applicable standard is determined by proration using the following formula:

$$PS_{NOX} = X(130) + Y(260) / 100$$

where:

PS_{NOX} is the prorated standard for nitrogen oxides when combusting coal and fuel oil simultaneously (ng/J heat input).

X is the percentage of total heat input derived from the combustion of fuel oil.

Y is the percentage of total heat input derived from the combustion of coal.
[PSD-FL-018]

A.16. Nitrogen Oxides. Stack emissions from Units 1 and 2 shall comply with the following standards when burning blends of coal and petroleum coke:

(1) 0.60 lb/MMBtu heat input, and 35 percent of the potential combustion concentration (65 percent reduction). Compliance with the lb/MMBtu heat input emission limitation and the percent reduction requirement shall be determined on a 30-day rolling average basis. Compliance with the 0.60 lb/MMBtu heat input emission limitation shall also constitute compliance with the 65 percent reduction requirement; and,

(2) 0.50 lb/MMBtu heat input determined on an annual average basis, when subject to the 40 CFR 76.8 Early Election Program for Group 1, Phase II Boilers or in any year when petroleum coke is burned.

[40 CFR 60.44a(a)(1) & (2) and PSD-FL-018(A)]

A.17. "On-Specification" Used Oil. Only "on-specification" used oil shall be fired in each unit. The quantity fired in each unit shall not exceed 500,000 gallons per calendar year. "On-specification" used oil is defined as used oil that meets the 40 CFR 279 (Standards for the Management of Used Oil) specifications listed below. Used oil that does not meet all of the following specifications is considered "off-specification" oil and shall not be fired.

<u>CONSTITUENT / PROPERTY *</u>	<u>ALLOWABLE LEVEL</u>
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	100 °F minimum
PCBs	less than 50 ppm

* As determined by approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

[40 CFR 279.11; and, Requested by the Applicant in the initial Title V application received June 17, 1996]

Excess Emissions

A.18. The opacity standards set forth in 40 CFR 60 shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard.

At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility 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 Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(c) & (d)]

{Permitting note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of a NSPS, NESHAP, or Acid Rain program provision.}

A.19. Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

[Rule 62-210.700(1), F.A.C.]

A.20. As necessary, the permittee will operate in accordance with the Procedures for Startup and Shutdown attached to this permit. The Procedures shall be used where applicable and where there is/are conflict with Specific Condition A.19.
[Rule 62-210.700(5), F.A.C.]

A.21. 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 shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

A.22. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Compliance Provisions

A.23. Compliance with the particulate matter emission limitation under 40 CFR 60.42a(a)(1) constitutes compliance with the percent reduction requirements for particulate matter under 40 CFR 60.42a(a)(2) and (3).
[40 CFR 60.46a(a)]

A.24. Compliance with the nitrogen oxides emission limitation under 40 CFR 60.44a(a)(1) constitutes compliance with the percent reduction requirements under 40 CFR 60.44a(a)(2).
[40 CFR 60.46a(b)]

A.25. The particulate matter emission standards under 40 CFR 60.42a and the nitrogen oxide standards under 40 CFR 60.44a apply at all times except during periods of startup, shutdown, or malfunction. The sulfur dioxide emission standards under 40 CFR 60.43a apply at all times except during periods of startup, shutdown, or when both emergency conditions exist and the procedures under 40 CFR 60.46a(d) are implemented.
[40 CFR 60.46a(c)]

A.26. During emergency conditions in the principle company, an affected facility with a malfunctioning flue gas desulfurization system may be operated if sulfur dioxide emissions are minimized by:

- (1) Operating all operable flue gas desulfurization modules, and bringing back into operation any malfunctioned module as soon as repairs are completed,
- (2) Bypassing flue gases around only those flue gas desulfurization system modules that have been taken out of operation because they were incapable of any sulfur dioxide emission reduction or

which would have suffered significant physical damage if they had remained in operation.
[40 CFR 60.46a(d)(1) & (2)]

A.27. Compliance with the sulfur dioxide emission limitations and the percentage reduction requirements under 40 CFR 60.43a and the nitrogen oxides emissions limitations under 40 CFR 60.44a is based on the average emission rate for 30 successive boiler operating days. A separate performance test is completed at the end of each boiler operating day and a new 30 day average emission rate for both sulfur dioxide and nitrogen oxides and a new percent reduction for sulfur dioxide are calculated to show compliance with the standards.
[40 CFR 60.46a(e)]

A.28. Compliance is determined by calculating the arithmetic average of all hourly emission rates for SO₂ and NO_x for the 30 successive boiler operating days, except for data obtained during startup, shutdown, or malfunction (NO_x only), or emergency conditions (SO₂ only). Compliance with the percentage reduction requirement for SO₂ is determined based on the average inlet and average outlet SO₂ emissions rates for the 30 successive boiler operating days.
[40 CFR 60.46a(g)]

A.29. If the owner or operator has not obtained the minimum quantity of emission data as required under 40 CFR 60.47a, compliance of the affected facility with the emission requirements under 40 CFR 60.43a and 60.44a for the day on which the 30-day period ends may be determined by the Administrator following the applicable procedures in section 7 of Method 19.
[40 CFR 60.46a(h)]

Continuous Monitoring Requirements

A.30. Opacity. The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring the opacity of emissions discharges to the atmosphere. If opacity interference due to water droplets exists in the stack (for example, from the use of a FGD system), the opacity is monitored upstream of the interference (at the inlet to the FGD system). If opacity interference is experienced at all locations (both at the inlet and outlet of the sulfur dioxide control system), alternate parameters indicative of the particulate matter control system's performance are monitored (subject to the approval of the Administrator).
[40 CFR 60.47a(a)]

A.31. Sulfur Dioxide. The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring sulfur dioxide emissions as follows:

(1) Sulfur dioxide emissions are monitored at both the inlet and outlet of the sulfur dioxide control device.

(3) An "as fired" fuel monitoring system (upstream of coal pulverizers) meeting the requirements of Method 19 (appendix A) may be used to determine potential sulfur dioxide emissions in place of a continuous sulfur dioxide emission monitor at the inlet to the sulfur dioxide control device as required by paragraph (1), above.

[40 CFR 60.47a(b)(1) & (3)]

A.32. Nitrogen Oxides. The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring nitrogen oxides emissions discharged to the atmosphere.

[40 CFR 60.47a(c)]

A.33. The owner or operator of an affected facility shall install, calibrate, maintain, and operate a continuous monitoring system, and record the output of the system, for measuring the oxygen or carbon dioxide content of the flue gases at each location where sulfur dioxide or nitrogen oxides emissions are monitored.

[40 CFR 60.47a(d)]

A.34. The continuous monitoring systems required under specific conditions **A.31.**, **A.32.** and **A.33.** are operated and data recorded during all periods of operation at the affected facility including periods of startup, shutdown, malfunction, or emergency conditions, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments.

[40 CFR 60.47a(e)]

A.35. The owner or operator shall obtain emission data for at least 18 hours in at least 22 out of 30 successive boiler operating days. If this minimum data requirement cannot be met with a continuous monitoring system, the owner or operator shall supplement emission data with other monitoring systems approved by the Administrator or the reference methods and procedures as described in 40 CFR 60.47a(h).

[40 CFR 60.47a(f)]

A.36. The 1-hour averages required under 40 CFR 60.13(h) are expressed in ng/J (lb/million Btu) heat input and used to calculate the average emission rates under 40 CFR 60.46a. The 1-hour averages are calculated using the data points required under 40 CFR 60.13(b). At least two data points must be used to calculate the 1-hour averages.

[40 CFR 60.47a(g)]

A.37. When it becomes necessary to supplement continuous monitoring system data to meet the minimum data requirements in 40 CFR 60.47a(f), the owner or operator shall use the reference methods and procedures as specified in this paragraph. acceptable alternative methods are given in 40 CFR 60.47a(j).

(1) Method 6 shall be used to determine the SO₂ concentration at the same location as the SO₂ monitor. Samples shall be taken at 60-minute intervals. The sampling time and sample volume for each sample shall be at least 20 minutes and 0.020 dscm (0.71 dscf). Each sample represents a 1-hour average.

(2) Method 7 shall be used to determine the NO_x concentration at the same location as the NO_x monitor. Samples shall be taken at 30-minute intervals. The arithmetic average of two consecutive samples represents a 1-hour average.

(3) The emission rate correction factor, integrated bag sampling and analysis procedure of Method 3B shall be used to determine the O₂ or CO₂ concentration at the same location as the O₂ or CO₂ monitor. Samples shall be taken for at least 30 minutes in each hour. Each sample represents a 1-hour average.

(4) The procedures in Method 19 shall be used to compute each 1-hour average concentration in ng/J (lb/million Btu) heat input.
[40 CFR 60.47a(h)]

A.38. The owner or operator shall use methods and procedures in this paragraph to conduct monitoring system performance evaluations under 40 CFR 60.13(c) and calibration checks under 40 CFR 60.13(d). Acceptable alternative methods and procedures are given in 40 CFR 60.47a(j).

(1) Methods 6, 7, and 3B, as applicable, shall be used to determine O₂, SO₂, and NO_x concentrations.

(2) SO₂ or NO_x (NO), as applicable, shall be used for preparing the calibration gas mixtures (in N₂, as applicable) under Performance Specification 2 of appendix B of 40 CFR 60.

(3) For affected facilities burning only fossil fuel, the span value for a continuous monitoring system for measuring opacity is between 60 and 80 percent and for a continuous monitoring system measuring nitrogen oxides firing solid fuel is 1,000 ppm.

(5) For affected facilities burning fossil fuel, alone or in combination with non-fossil fuel, the span value of the sulfur dioxide continuous monitoring system at the inlet to sulfur dioxide control device is 125 percent of the maximum estimated hourly potential emissions of the fuel fired, and the outlet of the sulfur dioxide control device is 50 percent of maximum estimated hourly potential emissions of the fuel fired.

[40 CFR 60.47a(i)(1), (2), (3), & (5)]

A.39. The owner or operator may use the following as alternatives to the reference methods and procedures specified in 40 CFR 60.47a.

(1) For Method 6, Method 6A or 6B (whenever Methods 6 and 3 or 3B data are used) or 6C may be used. Each Method 6B sample obtained over 24 hours represents 24 1-hour averages. If Method 6A or 6B is used under 40 CFR 60.47a(i), the conditions under 40 CFR 60.46(d)(1) apply (see specific condition **A.71.**); these conditions do not apply under 40 CFR 60.47a(h).

(2) For Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time is 1 hour.

(3) For Method 3, Method 3A or 3B may be used if the sampling time is 1 hour.

(4) For Method 3B, Method 3A may be used.

[40 CFR 60.47a(j)]

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.40. In conducting performance tests, the owner or operator shall use as reference methods and procedures the methods in appendix A of 40 CFR 60 or the methods and procedures as specified in 40 CFR 60.48a, except as provided in 40 CFR 60.8(b). 40 CFR 60.8(f) does not apply for SO₂ and NO_x. Acceptable alternative methods are given in 40 CFR 60.48a(e).

[40 CFR 60.48a(a)]

A.41. Particulate Matter. The owner or operator shall determine compliance with the particulate matter standard as follows:

(1) The dry basis F factor (O₂) procedures in Method 19 shall be used to compute the emission rate of particulate matter.

(2) For the particulate matter concentration, Method 5 shall be used at affected facilities without wet

FGD systems and Method 5B shall be used after wet FGD systems.

- (i) The sampling time and sample volume for each run shall be at least 120 minutes and 1.70 dscm (60 dscf). The probe and filter holder heating system in the sampling train may be set to provide an average gas temperature of no greater than 160 ± 14 °C (320 ± 25 °F).
- (ii) For each particulate run, the emission rate correction factor, integrated or grab sampling and analysis procedures of Method 3B shall be used to determine the O₂ concentration. The O₂ sample shall be obtained simultaneously with, and at the same traverse points as, the particulate run. If the particulate run has more than 12 traverse points, the O₂ traverse points may be reduced to 12 provided that Method 1 is used to locate the 12 O₂ traverse points. If the grab sampling procedure is used, the O₂ concentration for the run shall be the arithmetic mean of all the individual O₂ concentrations at each traverse point.
- (3) Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity, or,
- (4) Use of a continuous opacity monitor is authorized to determine opacity.
[40 CFR 60.48a(b) and 40 CFR 60.11(b)]

A.42. Sulfur Dioxide. The owner or operator shall determine compliance with the sulfur dioxide standards as follows:

- (1) The percent of potential SO₂ emissions (%P_S) to the atmosphere shall be computed using the following equation:

$$\%P_S = [(100 - \%R_F)(100 - \%R_S)] / 100$$

where:

- %P_S = percent of potential SO₂ emissions, percent.
%R_F = percent reduction from fuel pretreatment, percent.
%R_S = percent reduction by SO₂ control system, percent.

- (2) The procedures in Method 19 may be used to determine percent reduction (%R_F) of sulfur by such processes as fuel pretreatment (physical coal cleaning, hydrodesulfurization of fuel oil, etc.), coal pulverizers, and bottom and fly ash interactions. This determination is optional.
- (3) The procedures in Method 19 shall be used to determine the percent SO₂ reduction (%R_S) of any SO₂ control system. Alternatively, a combination of an "as fired" fuel monitor and emission rates measured after the control system, following the procedures in Method 19, may be used if the percent reduction is calculated using the average emission rate from the SO₂ control device and the average SO₂ input rate from the "as fired" fuel analysis for 30 consecutive boiler operating days.
- (4) The appropriate procedures in Method 19 shall be used to determine the emission rate.
- (5) The continuous monitoring system in 40 CFR 60.47a(b) and (d) shall be used to determine the concentrations of SO₂ and CO₂ or O₂.
[40 CFR 60.48a(c)]

A.43. Nitrogen Oxides. The owner or operator shall determine compliance with the NO_x standard as follows:

- (1) The appropriate procedures in Method 19 shall be used to determine the emission rate of NO_x.
- (2) The continuous monitoring system in 40 CFR 60.47a(c) and (d) shall be used to determine the concentrations of NO_x and CO₂ or O₂.
[40 CFR 60.48a(d)]

A.44. The owner or operator may use the following as alternatives to the reference methods and procedures specified in 40 CFR 60.48a:

(1) For Method 5 or 5B, Method 17 may be used at facilities with or without wet FGD systems if the stack temperature at the sampling location does not exceed the average temperature of 160 °C (320 °F). Procedures 2.1 and 2.3 of Method 5B in 40 CFR 60, Appendix A may be used in Method 17 only if it is used after wet FGD systems. Method 17 shall not be used after wet FGD systems if the effluent is saturated or laden with water droplets.

(2) The F_C factor (CO_2) procedures in Method 19 may be used to compute the emission rate of particulate matter under the stipulations of 40 CFR 60.46(d)(1). The CO_2 shall be determined in the same manner as the O_2 concentration.

[40 CFR 60.48a(e)]

A.45. Compliance with the "on-specification" used oil requirements will be determined as follows:

(a) Analysis of a sample collected from each batch delivered for firing; or,

(b) The new batch delivery is from a collection site that has an acceptable analysis already on file with the facility and the analytical results are assumed by the facility for the batch.

(c) For quantification purposes, the highest concentration of each constituent as determined by any analysis is assumed to be the concentration of the constituent of the blended used oil.

See specific condition **A.17**.

[Rule 62-213.440(1)(b)2.a., F.A.C.]

A.46. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

A.47. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

A.48. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

A.49. Applicable Test Procedures.

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. **Opacity Compliance Tests.** When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

a. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

b. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) **Minimum Sample Volume.** Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet. **See Specific Condition A.41.**

(c) **Required Flow Rate Range.** For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

(d) **Calibration of Sampling Equipment.** Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1, attached as part of this permit.

(e) **Allowed Modification to EPA Method 5.** When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube. [Rule 62-297.310(4), F.A.C.]

A.50. Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit. [Rule 62-297.310(6), F.A.C.]

A.51. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) **General Compliance Testing.**

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission

limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

- a. Did not operate; or
 - b. In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total no more than 400 hours.
4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
- a. Visible emissions, if there is an applicable standard;
 - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and,
 - c. Each NESHAP pollutant, if there is an applicable emission standard.
5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.
9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.; and, SIP approved]

Recordkeeping and Reporting Requirements

A.52. For sulfur dioxide, nitrogen oxides, and particulate matter emissions, the performance test data from the performance evaluation of the continuous monitors (including the transmissometer) are submitted to the Administrator.
[40 CFR 60.49a(a)]

A.53. For sulfur dioxide and nitrogen oxides the following information is reported to the Administrator for each 24-hour period.

- (1) Calendar date.

- (2) The average sulfur dioxide and nitrogen oxides emission rates (ng/J or lb/million Btu) for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the standards; and, description of corrective actions taken.
 - (3) Percent reduction of the potential combustion concentration of sulfur dioxide for each 30 successive boiler operating days, ending with the last 30-day period in the quarter; reasons for non-compliance with the standard; and, description of corrective actions taken.
 - (4) Identification of the boiler operating days for which pollutant or diluent data have not been obtained by an approved method for at least 18 hours of operation of the facility; justification for not obtaining sufficient data; and, description of corrective actions taken.
 - (5) Identification of the times when emissions data have been excluded from the calculation of average emission rates because of startup, shutdown, malfunction (NO_x only), emergency conditions (SO₂ only), or other reasons, and justification for excluding data other than startup, shutdown, malfunction, or emergency conditions.
 - (6) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.
 - (7) Identification of the times when hourly averages have been obtained based on manual sampling methods.
 - (8) Identification of the times when the pollutant concentration exceeded full span of the continuous monitoring system.
 - (9) Description of any modifications to the continuous monitoring system which could affect the ability of the continuous monitoring system to comply with Performance Specifications 2 or 3.
- [40 CFR 60.49a(b)]

A.54. If the minimum quantity of emission data as required by 40 CFR 60.47a is not obtained for any 30 successive boiler operating days, the following information obtained under the requirements of 40 CFR 60.46a(h) is reported to the Administrator for that 30-day period:

- (1) The number of hourly averages available for outlet emission rates (n_o) and inlet emission rates (n_i) as applicable.
 - (2) The standard deviation of hourly averages for outlet emission rates (s_o) and inlet emission rates (s_i) as applicable.
 - (3) The lower confidence limit for the mean outlet emission rate (E_o^*) and the upper confidence limit for the mean inlet emission rate (E_i^*) as applicable.
 - (4) The applicable potential combustion concentration.
 - (5) The ratio of the upper confidence limit for the mean outlet emission rate (E_o^*) and the allowable emission rate (E_{std}) as applicable.
- [40 CFR 60.49a(c)]

A.55. If any standards under 40 CFR 60.43a are exceeded during emergency conditions because of control system malfunction, the owner or operator of the affected facility shall submit a signed statement:

- (1) Indicating if emergency conditions existed and requirements under 40 CFR 60.46a(d) were met during each period, and
- (2) Listing the following information:
 - (i) Time periods the emergency condition existed;
 - (ii) Electrical output and demand on the owner or operator's electric utility system and the affected facility;
 - (iii) Amount of power purchased from interconnected neighboring utility companies during the emergency period;
 - (iv) Percent reduction in emissions achieved;
 - (v) Atmospheric emission rate (ng/J) of the pollutant discharged; and,
 - (vi) Actions taken to correct control system malfunction.

[40 CFR 60.49a(d)]

A.56. If fuel pretreatment credit toward the sulfur dioxide emission standard under 40 CFR 60.43a is claimed, the owner or operator of the affected facility shall submit a signed statement:

- (1) Indicating what percentage cleaning credit was taken for the calendar quarter, and whether the credit was determined in accordance with the provisions of 40 CFR 60.48a and Method 19 (appendix A); and
- (2) Listing the quantity, heat content, and date each pretreated fuel shipment was received during the previous quarter; the name and location of the pretreatment facility; and the total quantity and total heat content of all fuels received at the affected facility during the previous quarter.

[40 CFR 60.49a(e)]

A.57. For any periods for which opacity, sulfur dioxide or nitrogen oxides emissions data are not available, the owner or operator of the affected facility shall submit a signed statement indicating if any changes were made in operation of the emission control system during the period of data unavailability. Operations of the control system and the affected facility during periods of data unavailability are to be compared with operation of the control system and the affected facility before and following the period of data unavailability.

[40 CFR 60.49a(f)]

A.58. The owner or operator of the affected facility shall submit a signed statement indicating whether:

- (1) The required continuous monitoring system calibration, span, and drift checks or other periodic audits have or have not been performed as specified.
- (2) The data used to show compliance was or was not obtained in accordance with approved methods and procedures of this part and is representative of plant performance.
- (3) The minimum data requirements have or have not been met; or, the minimum data requirements have not been met for errors that were unavoidable.
- (4) Compliance with the standards has or has not been achieved during the reporting period.

[40 CFR 60.49a(g)]

A.59. For the purposes of the reports required under 40 CFR 60.7, periods of excess emissions are defined as all 6-minute periods during which the average opacity exceeds the applicable opacity standards under 40 CFR 60.42a(b). Opacity levels in excess of the applicable opacity standard and the date of such excesses are to be submitted to the Administrator each calendar quarter.

[40 CFR 60.49a(h)]

A.60. The owner or operator of an affected facility shall submit the written reports required under this section and Subpart A to the Administrator for every calendar quarter. All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.

[40 CFR 60.49a(i)]

A.61. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Rule 62-210.700(6), F.A.C.]

A.62. Submit to the Department a written report of emissions in excess of emission limiting for each calendar quarter. The nature and cause of the excess emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file by the Source for a period of five years.

[Rule 62-213.440, F.A.C.]

A.63. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
1. The type, location, and designation of the emissions unit tested.
 2. The facility at which the emissions unit is located.
 3. The owner or operator of the emissions unit.
 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 8. The date, starting time and duration of each sampling run.
 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
 10. The number of points sampled and configuration and location of the sampling plane.
 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
 12. The type, manufacturer and configuration of the sampling equipment used.
 13. Data related to the required calibration of the test equipment.
 14. Data on the identification, processing and weights of all filters used.
 15. Data on the types and amounts of any chemical solutions used.
 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
 17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
 18. All measured and calculated data required to be determined by each applicable test procedure for each run.
 19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
 20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
 21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rule 62-297.310(8), F.A.C.]

A.64. Records shall be kept of each delivery of "on-specification" used oil with a statement of the origin of the used oil and the quantity delivered/stored for firing. In addition, monthly records shall be kept of the quantity of "on-specification" used oil fired in this unit. The above records shall be maintained in a form suitable for inspection, retained for a minimum of five years, and be made available upon request.

[Rule 62-213.440(1)(b)2.b., F.A.C.]

A.65. The permittee shall include in the "Annual Operating Report for Air Pollutant Emitting Facility" a summary of the "on-specification" used oil analyses for the calendar year and a statement of the total quantity of "on-specification" used oil fired during the calendar year.

[Rule 62-213.440(1)(b)2.b., F.A.C.]

A.66. Reporting and Recordkeeping.

(1) Documentation verifying that the coal and petroleum coke fuel blends combusted in Units 1 and 2 have not exceeded the 30 percent maximum petroleum coke by weight limit shall be maintained and submitted to the Department's Northeast District office with each annual report; and,

(2) The permittee shall maintain and submit to the Department, on an annual basis for a period of five years from the date the units begin firing petroleum coke, data demonstrating that the operational change associated with the use of petroleum coke did not result in a significant emission increase pursuant to Rule 62-210.200(12)(d), F.A.C.

[PSD-FL-018(A)]

Miscellaneous Requirements.

A.67. These emissions units are subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C.

[40 CFR 64; Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

A.68. The permittee shall comply with the requirements contained in Appendix 40 CFR 60, Subpart A, attached to this permit.

[Rule 62-204.800(7)(d), F.A.C.]

A.69. Carbon Monoxide. The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes associated with the use of petroleum coke did not result in a significant emission increase of the pollutant when compared to past emissions while firing coal.

The carbon monoxide emissions shall be based on test results using EPA Method 10.

[PSD-FL-018(A)] {Permitting Note: Condition completed.}

A.70. Sulfuric Acid Mist. The permittee shall maintain and submit to the Department on an annual basis for a period of five years from the date the units begin firing petroleum coke, test results demonstrating that the operational changes associated with the use of petroleum coke did not result in a significant emission increase of the pollutant when compared to past emissions while firing coal.

The sulfuric acid mist emissions shall be based on test results using EPA Method 8.

[PSD-FL-018(A)] {Permitting Note: Condition completed.}

A.71. The owner or operator may use the following as alternatives to the reference methods and procedures in 40 CFR 60.46 or in other sections as specified:

(1) The emission rate (E) of particulate matter, SO₂ and NO_x may be determined by using the F_c factor, provided that the following procedure is used:

(i) The emission rate (E) shall be computed using the following equation:

$$E = C F_c (100 / \% \text{ CO}_2)$$

where:

E = emission rate of pollutant, ng/J (lb/million Btu).

C = concentration of pollutant, ng/dscm (lb/dscf).

% CO₂ = carbon dioxide concentration, percent dry basis.

F_c = factor as determined in appropriate sections of Method 19.

(ii) If and only if the average F_c factor in Method 19 is used to calculate E and either E is from 0.97 to 1.00 of the emission standard or the relative accuracy of a continuous emission monitoring system is from 17 to 20 percent, then three runs of Method 3B shall be used to determine the O₂ and CO₂ concentration according to the procedures in 40 CFR 60.46(b) (2)(ii), (4)(ii), or (5)(ii). Then if F_o (average of three runs), as calculated from the equation in Method 3B, is more than ± 3 percent than the average F_o value, as determined from the average values of F_d and F_c in Method 19, i.e., F_{oa} = 0.209 (F_{da} / F_{ca}), then the following procedure shall be followed:

(A) When F_o is less than 0.97 F_{oa}, then E shall be increased by that proportion under 0.97 F_{oa}, e.g., if F_o is 0.95 F_{oa}, E shall be increased by 2 percent. This recalculated value shall be used to determine compliance with the emission standard.

(B) When F_o is less than 0.97 F_{oa} and when the average difference ($\bar{d}$) between the continuous monitor minus the reference methods is negative, then E shall be increased by that proportion under 0.97 F_{oa}, e.g., if F_o is 0.95 F_{oa}, E shall be increased by 2 percent. This recalculated value shall be used to determine compliance with the relative accuracy specification.

(C) When F_o is greater than 1.03 F_{oa} and when $\bar{d}$ is positive, then E shall be decreased by that proportion over 1.03 F_{oa}, e.g., if F_o is 1.05 F_{oa}, E shall be decreased by 2 percent. This recalculated value shall be used to determine compliance with the relative accuracy specification.

[40 CFR 60.46(d)(1)]

Ambient Monitoring.

A.72. Reserved.

[PA 78-10, Revised July 5, 2005]

A.73. Reserved.

[PA 78-10, Revised July 5, 2005]

Section III. Emissions Unit(s) and Conditions.

Subsection C. This section addresses the following emissions unit(s).

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-004	Coal Storage Yard

The coal receiving, storage and transfer systems at the coal storage yard support the operation of the two power boilers. Particulate matter emissions are controlled at the "as-received transfer tower", the "as-fired transfer tower", and the conveyors to the silos by fabric filter systems. Water sprays, full enclosures or partial enclosures are also utilized, where appropriate.

{Permitting note(s): IMPORTANT REGULATORY CLASSIFICATIONS - The emissions unit is regulated under NSPS - 40 CFR 60, Subpart Y, Standards of Performance for Coal Preparation Plants, adopted and incorporated by reference in Rule 62-204.800(7), F.A.C.; Prevention of Significant Deterioration (PSD); Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated June 15, 1979. The coal storage yard began commercial operation in 1985.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum throughput rate shall not exceed 3,000 tons per hour for unloading trains and 1,700 tons per hour for reclaim operation.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, Initial Title V application received June 17, 1996]

{Permitting note: The throughput limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for throughput. Also, see permitting note under specific condition C.7.}

C.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition C.7.
[Rule 62-297.310(2), F.A.C.]

C.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year.
[Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: Unless otherwise specified, the averaging times for Specific Condition C.4 is

based on the specified averaging time of the applicable test method.}

C.4. Visible Emissions. An owner or operator shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system

processing coal, gases which exhibit 20 percent opacity or greater.
[40 CFR 60.252(c); and, PSD-FL-018]

Monitoring of Operations

C.5. Determination of Process Variables.

(a) **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

{Permitting note: Emission limiting standards for the coal handling and storage emission unit consist only of visible emissions (VE). Compliance with the VE standard is determined using EPA Method 9. A determination of compliance is not dependent on the use of instruments or equipment to determine process variables.}

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.6. Visible Emissions. EPA Method 9 and the procedures in 40 CFR 60.11 shall be used to determine opacity.

[40 CFR 60.254(b)(2); and, PSD-FL-018]

C.7. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

{Permitting note: The permitted capacity of the coal handling and storage emissions unit is based on conveyor belt capacity. Conveyor belt speed is set and does not vary during normal operation. However, feeder belts which supply coal to the conveyor belts are variable speed. Bins, crushers, and silos are filled on a batch process basis by the conveyor belts which are either on or off. The period at which the highest opacity emissions can reasonably be expected to occur at the emissions points subject to the standard, (i.e., CH-002, CH-011, and U1 and U2 Silo Dust Collectors) will be when the conveyor belts are on during normal operation. Therefore, the period during which the conveyor belts are on during normal operation shall represent permitted capacity of this emissions

unit for purposes of compliance testing.}

C.8. Applicable Test Procedures.

(a) Required Sampling Time.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

[Rule 62-297.310(4)(a)2.c., F.A.C.]

{Permitting note: EPA Method 9 has been previously specified as the applicable opacity test method.}

C.9. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

a. Did not operate;

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

a. Visible emissions, if there is an applicable standard;

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for

particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; and, SIP approved]

{Permitting note: The individual coal handling and storage emission points requiring an annual VE test are those containing baghouse controls. These baghouse locations are emission points CH-002, CH-011, and U1 and U2 Silo Dust Collectors. For those emissions points specified herein containing a baghouse, the permittee shall maintain daily records of the differential pressure to assure that the baghouse is operating properly. Maintenance activities are initiated according to Seminole's previously submitted Action Plan.}

Recordkeeping and Reporting Requirements

C.10. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
 - (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- [Rule 62-297.310(8), F.A.C.]

Miscellaneous Requirements.

C.11. The permittee shall comply with the requirements contained in Appendix 40 CFR 60, Subpart A, attached to this permit.
[Rule 62-204.800(7)(d), F.A.C.]

C.12. The opacity standards set forth in 40 CFR 60 shall apply at all times except during periods of startup, shutdown, malfunction and as otherwise provided in the applicable standard. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility 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 Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.
[40 CFR 60.11(c) & (d)]

Section III. Emissions Unit(s) and Conditions.

Subsection D. This section addresses the following emissions unit(s).

E.U.

ID No. Brief Description

-005 Limestone and FGD Sludge Handling and Storage

(1) The limestone handling and storage system consists of a limestone unloading facility where particulate matter emissions are controlled by a panel filter, a limestone handling and storage system which utilizes a partial enclosure to control particulate matter emissions. In the FGD sludge processing system particulate emissions, which originate from the transfer of lime and fly ash from both truck and rail delivery, are controlled by the use of bag house filters. Scrubbers are also utilized to control particulate emissions in the FGD sludge processing building.

{Permitting note(s): IMPORTANT REGULATORY CLASSIFICATIONS - The emissions unit is regulated under Prevention of Significant Deterioration (PSD); Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination, dated June 15, 1979.}

The following specific conditions apply to the emissions unit(s) listed above:

Essential Potential to Emit (PTE) Parameters

D.1. Permitted Capacity. The maximum limestone unloading or transfer rate shall not exceed 400 tons per hour. The throughput rates for the sludge stabilization system are intermittent and variable. [Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, Initial Title V application received June 17, 1996]

{Permitting note: The limestone unloading or transfer rate limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability. Regular record keeping is not required for unloading or transfer rates. Also, see permitting note under specific condition D.7.}

D.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition D.7. [Rule 62-297.310(2), F.A.C.]

D.3. Hours of Operation. This emissions unit is allowed to operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

{Permitting note: Unless otherwise specified, the averaging times for Specific Condition D.4 is based on the specified averaging time of the applicable test method.}

D.4. Visible Emissions. An owner or operator shall not cause to be discharged into the atmosphere gases which exhibit 20 percent opacity or greater.
[PSD-FL-018]

Monitoring of Operations

D.5. Determination of Process Variables.

(a) **Required Equipment.** The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) **Accuracy of Equipment.** Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

{Permitting note: Emission limiting standards for the limestone and FGD sludge handling and storage emission unit consist only of visible emissions (VE). Compliance with the VE standard is determined using EPA Method 9, which is not dependent on the use of instruments or equipment to determine process variables.}

Test Methods and Procedures

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

D.6. Visible Emissions. EPA Method 9 shall be used to determine opacity compliance pursuant to Chapter 62-297, F.A.C.

[Rules 62-213.440 and 62-297.401, F.A.C.]

D.7. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

{Permitting note: The permitted capacity of the limestone handling and storage emissions unit is based on trucks per hour. Trucks per hour has no bearing on determining the period at which the highest opacity emissions can reasonably be expected to occur at emission point L-001. Normal operating conditions when trucks are delivering/unloading constitute the appropriate time period for VE testing. Therefore, such periods shall represent permitted capacity for compliance testing.}

D.8. Applicable Test Procedures.

(a) Required Sampling Time.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

- c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

[Rule 62-297.310(4)(a)2.c., F.A.C.]

{Permitting note: EPA Method 9 has been previously specified as the applicable opacity test method.}

D.9. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

- a. Did not operate;

4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

- a. Visible emissions, if there is an applicable standard;

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units

and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; and, SIP approved]

{Permitting note: The individual limestone and FGD sludge handling points requiring an annual VE test are those containing filter and wet scrubber equipment. These locations are emissions points L-001, FGD-002, FGD-003 or FGD-004, FGD-005 or FGD-006, FGD-007 or FGD-008, and FGD-009 or FGD-010 For those emissions points specified herein containing a baghouse, the permittee shall maintain daily records of the differential pressure to assure that the baghouse is operating properly. Maintenance activities are initiated according to Seminole's previously submitted Action plan.}

Recordkeeping and Reporting Requirements

D.10. Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

(b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

[Rule 62-297.310(8), F.A.C.]

Section IV. This section is the Acid Rain Part.

Operated by: Seminole Electric Cooperative, Inc.
ORIS code: 136

Subsection A. This subsection addresses Acid Rain, Phase II.

The emissions units listed below are regulated under Acid Rain, Phase II.

E.U.

<u>ID No.</u>	<u>Brief Description</u>
-001	Steam Electric Generator No. 1
-002	Steam Electric Generator No. 2

A.1. The Phase II permit application(s) submitted for this facility, as approved by the Department, are a part of this permit. The owners and operators of these Phase II acid rain unit(s) must comply with the standard requirements and special provisions set forth in the application(s) listed below:

DEP Form No. 62-210.900(1)(a), dated June 8, 2004

A.2. Sulfur dioxide (SO₂) allowance allocations for each Acid Rain unit is as follows:

<u>E.U. ID</u> <u>No.</u>	<u>EPA ID</u>	<u>Year</u>	2005	2006	2007	2008	2009
-001	1	SO2 allowance s, under Table 2 or 3 of 40 CFR Part 73	18,381 *	18,381*	18,381*	18,381*	18,381*
-002	2	SO2 allowance s, under Table 2 or 3 of 40 CFR Part 73	18,381 *	18,381*	18,381*	18,381*	18,381*

* The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 or 3 of 40 CFR 73.]

A.3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

1. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a

permit revision pursuant to Rule 62-213.400(3), F.A.C.

2. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.

3. Allowances shall be accounted for under the Federal Acid Rain Program.

[Rule 62-213.440(1)(c), F.A.C.]

A.4. Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62- 214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, F.A.C., Fast-Track

Revisions of Acid Rain Parts.

[Rules 62-213.413 and 62-214.370(4), F.A.C.]

A.5. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400, F.A.C.

[40 CFR 70.6(a)(4)(i); and, Rule 62-213.440(1)(c)1., F.A.C.]

A.6. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.

[40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, Definitions - Applicable Requirements, F.A.C.]

A.7. Comments, notes, and justifications: None.

Subsection B. This subsection addresses Acid Rain, Phase II.

The emissions unit listed below is regulated under Acid Rain Part, Phase II, for Seminole Electric Cooperative, Inc, Seminole Generating Station, **Facility ID No.:** 1070025, **ORIS code:** 136.

E.U. ID

<u>No.</u>	<u>Brief Description</u>
-001	Steam Electric Generator No. 1
-002	Steam Electric Generator No. 2

The provisions of the Phase II permit govern(s) those emissions unit(s) from January 1, 2000 through the expiration date of this Title V permit. The Phase II permit governs all other affected units for the effective period of this permit.

B.1. The owners and operators of these Phase II acid rain unit(s) must comply with the standard requirements and special provisions set forth in the plan(s) listed below:

Phase II NO_x Compliance Plan dated June 29, 2004. **See Specific Condition B.2.**
[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

B.2. Nitrogen oxide (NO_x) requirements for each Acid Rain unit is as follows:

<u>E.U. ID</u>		
<u>No.</u>	<u>EPA ID</u>	<u>NO_x limit</u>
-001	1	Pursuant to 40 CFR 76.8(d)(2), the Florida Department of Environmental Protection approves a NO_x early election compliance plan for unit U1. The compliance plan is effective for calendar year 2000 through calendar year 2007. Under the compliance plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under "40 CFR 76.5(a)(2) of 0.50 lb/MMBtu" for dry bottom wall-fired boilers. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to the applicable emission limitation, under "40 CFR 76.7(a)(2) of 0.46 lb/MMBtu" for dry bottom wall-fired boilers until calendar year 2008. In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and the requirements covering excess emissions.

-002	2	Pursuant to 40 CFR 76.8(d)(2), the Florida Department of Environmental Protection approves a NO_x early election compliance plan for unit U2. The compliance plan is effective for calendar year 2000 through calendar year 2007. Under the compliance plan, this unit's annual average NO_x emission rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under "40 CFR 76.5(a)(2) of 0.50 lb/MMBtu" for dry bottom wall-fired boilers. If the unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to the applicable emission limitation, under "40 CFR 76.7(a)(2) of 0.46 lb/MMBtu" for dry bottom wall-fired boilers until calendar year 2008. In addition to the described NO_x compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NO_x compliance plan and the requirements covering excess emissions.

B.3. Comments, notes, and justifications: none

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