FLORIDA DEPARTMENT OF Environmental Protection

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PERMITTEE

Tampa Electric Company (TEC)
702 North Franklin Street
Tampa, FL and 33602

Authorized Representative:
Mr. Byron Burrows, Manager – Air Programs

Air Permit No. 0570039-129-AC
Permit Expires: March 31, 2021
Air Construction Permit
Big Bend Station
Minor Revision and Addition to 0570039-122-AC

PROJECT

This is the final air construction permit, which authorizes the revision of Permit No. 0570039-122-AC to make minor changes and add sulfur dioxide emission limits related to regional haze requirements. The proposed work will be conducted at the existing Big Bend Station, which is an electric service categorized under Standard Industrial Classification No. 4911. The existing facility is in Hillsborough County at 13031 Wyandotte Road in Gibsonton, Florida. The UTM coordinates are Zone 17, 363.15 kilometers (km) East and 3074.91 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit. As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the draft permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

David Lyle Read, P.E.

Digitally signed by David Read
Date: 2020.08.11 15:23:08 -04'00'

For:
Syed Arif, P.E., Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction Permit package was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Mr. Bryon Burrows, Tampa Electric Company (btburrows@tecoenergy.com)
Mr. Rob Velasco, P.E. Tampa Electric Company (ravelasco@tecoenergy.com)
DEP Southwest District Office: (SWD_Air_Permitting@dep.state.fl.us)
DEP Siting Office: (SCO@dep.state.fl.us)
Ms. Lynn Scearce, DEP OPC: (lynn.scearce@dep.state.fl.us)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

Lynn Scearce Digitally signed by Lynn Scearce
Date: 2020.08.11 15:28:17 -04'00'

Note, this permit replaces in its entirety the previously issued air construction Permit No. 0570039-022-AC. For clarity, changes made to Permit No. 0570039-0122-AC are denoted as follows: deletions are shown in ~~strikethrough~~ text while additions are shown in double underlined text. All changes are highlighted in yellow.

FACILITY DESCRIPTION

This facility consists of four fossil fuel fired steam generating Units 1 – 4 (EU 001 – EU 004); four steam turbine electrical generators; two simple-cycle combustion turbines (SCCTs) 4A and 4B (EU 041 and EU 042) sharing a common electrical generator; solid fuels, fly ash, limestone, gypsum, slag, bottom ash storage and handling facilities; and, fuel oil storage tanks.

Units 1 through 4 have a combined electrical generation output of 1,821 megawatt (MW). Units 1 through 3 each have a design electrical generating capacity of 445 MW. Unit 4 has a design electrical generating capacity of 486 MW. Units 1 – 4[1] can be fired with natural gas only, coal only, or co-fired natural gas and solid fuels consisting of coal, or a coal/petroleum coke blend containing a maximum of 20% petroleum coke by weight, or coal blended with coal residual generated from the Polk Power Station, or a coal/petroleum coke blend further blended with coal residual generated from the Polk Power Station and on-site generated fly ash. In addition to the fuels allowed to be burned during normal operation, each unit burns natural gas during startup, shutdown, flame stabilization, low load operation (either alone or while co-firing solid fuels) and during the startup of an additional solid fuel mill on an already operating unit. After issuance of Permit No. 0570039-120-AC, Tampa Electric will relinquish the ability to fire fuels other than natural gas in Units 1 and 2. Fly Ash Silo No. 1 and Baghouse (EU No. 008) and Unit Nos. 1 and 2 Coal Bunkers with Roto-Clones (EU Nos. 015 and 016) will be removed because these emissions units are no longer required for solely natural gas firing operations in these units.

For each unit, nitrogen oxide (NO_X) emissions are controlled by low-NO_X burners (LNB) and a selective catalytic reduction system (SCR). Unit 4 also has a separated over fire air system to further control NO_X emissions. On each unit, particulate matter (PM) emissions are controlled by a dry electrostatic precipitator (ESP) while sulfur dioxide (SO_2) emissions are controlled by a wet flue gas desulfurization system (FGD). Units 1 through 3 are equipped with continuous emissions monitoring systems (CEMS) to measure NO_X, SO_2, PM and carbon dioxide (CO_2). Unit 4 is equipped with CEMS to measure carbon monoxide (CO), NO_X, SO_2, PM and CO_2. Units 1 – 4 began operation in 1970, 1973, 1976, and 1985, respectively.

SCCT Nos. 4A and 4B have a combined generating capacity of 62 MW. Each SCCT primarily fires pipeline-quality natural gas and ultra-low sulfur distillate oil as a secondary fuel. These units provide power during peak electrical demand. NO_X and CO emissions are monitored by CEMS. Water injection is used to control NO_X emissions. SCCT Nos. 4A and 4B began commercial operation on August 15, 2009.

The existing facility consists of the following emissions units (EU).

EU No.	Emission Unit Description
001	Fossil Fuel Fired Steam Generator Unit No. 1
002	Fossil Fuel Fired Steam Generator Unit No. 2
003	Fossil Fuel Fired Steam Generator Unit No. 3
004	Fossil Fuel Fired Steam Generator Unit No. 4
041	SCCT 4A with a common electric generator that it shares with SCCT 4B
042	SCCT 4B with a common electric generator that it shares with SCCT 4A
010	Solid Fuel Yard Fugitive Emissions
029	Fuel Blending Bin Cyclone Collectors
030	Fuel Mill Cyclone Collectors
046	Transloading and Off-site Transfer of Solid Fuels and Slag

[1] Note, Permit No. 0570039-120-AC restricts Units 1 and 2 to only natural gas firing. Upon issuance of this final permit, Units 1 and 2 will be prohibited from firing solid fuels. Fly Ash Silo No. 1 and Baghouse (EU No. 008) and Unit Nos. 1 and 2 Coal Bunkers with Roto-Clones (EU Nos. 015 and 016) will be removed because of this project because these emissions units are no longer required for natural gas firing operations. In addition, the SO_2 CEMS will be removed as a part of this project, with SO_2 emissions going forward reported based on natural gas usage and corresponding emission factors.

EU No.	Emission Unit Description
047	Railcar Unloading and Conveying System
048	Supplemental Material Handling J3 Conveyor System
017	Unit No. 3 Coal Bunker with Roto-Clone
039	Unit No. 4 Coal Bunker with Roto-Clone
012	Limestone Silo A and Baghouses (2)
013	Limestone Silo B and Baghouses (2)
023	Limestone Conveyor LB/LC and Baghouse
050	Limestone Conveyor LD/LE and Baghouse
020	Limestone Conveyors LE/LF/LG/Silo C Belt Feeder Baghouse
021	Silo C and Baghouse
022	Lime Silo for Wastewater Treatment Plant and Baghouse
009	Fly Ash Silo No. 2 and Baghouse
014	Fly Ash Silo No. 3 and Baghouse
037	Coal Residual and Supplemental Additives Storage Facility
038	Coal Residual and Supplemental Additives Transfer System
032	Surface Coating of Miscellaneous Metal Parts
043	SCCT Black-Start Emergency Diesel Engine (1,495 HP)
044	Units 3 & 4 Emergency Diesel Generator (1,046 HP)
053	Units 1 & 2 Emergency Diesel Generator (197 HP)
036	Slag and Bottom Ash Sources BH-001 through BH-004
	Gypsum Handling and Storage Sources GH-001 through GH-017
	No. 2 Fuel Oil Storage Tanks > 550 gallons
	Vehicle Refueling Operations
045	FGD Area Emergency Diesel Generator (550 HP) and Fire Pump Diesel Engine (596 HP)

PROPOSED PROJECT

TEC has requested to revise prior Air Construction Permit No. 0570039-122-AC as follows: extend the current expiration date; remove EUs 008, 015 & 016 authorized by Air Operating Permit No. 0570039-121-AV; modify the language of Section 2, Condition 9 to include the requirement for re-commencing operation of Unit 4 while firing solid fuels; incorporate initial emission testing after the recommencing of Unit 4 and the completion of the requested modifications of Air Construction Permit No. 0570039-121-AV; and incorporate a typographical revision to an un-numbered condition (now requested "Condition 7") and re-number the subsequent conditions thereafter7. Also, emission limits for sulfur dioxide (SO_2) related to regional haze requirements for Fossil Fuel Fired Steam Generators Unit Nos. 4 and 5 were added.

This project will modify the following emissions units.

EU No.	Emission Unit Description
003	Fossil Fuel Fired Steam Generator Unit No. 3
004	Fossil Fuel Fired Steam Generator Unit No. 4

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).

- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the PSD of Air Quality.
- The facility does operate units subject to the New Source Performance Standards (NSPS) of Title 40 Part 60 of the Code of Federal Regulations (40 CFR 60).
- The facility does operate units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Environmental Protection Commission of Hillsborough County at: 3629 Queen Palm Drive, Tampa, Florida 33619.

3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified 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. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. 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.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Construction and Expiration: The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]

8. Source Obligation:

   a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

9. Application for Title V Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. A Title V air operation permit is required for regular operation of the permitted emissions unit. The permittee shall apply for a Title V air operation permit at least 90 days prior to expiration of this permit, but no later than 180 days after commencing operation firing solid fuels. 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. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050 and Chapter 62-213, F.A.C.]

10. Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions (BAE) with projected actual emissions (PAE) and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions s provided in **Specific Condition 11** of Section 3.A..

    [Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

REGIONAL HAZE SO_2 EMISSION LIMIT

1. Unit 3 Regional Haze SO_2 Emission Limit: As determined by CEMS, the SO_2 emission rate shall not exceed 0.20 lb/MMBtu based on a heat input-weighted 30-boiler operating day rolling average. Compliance shall be demonstrated as determined in §63.10021(a) and (b) of the MATS rule. [Compliance with the Regional Haze Rule]

   {*Permitting Note: this federally enforcement condition satisfies the "effectively controlled emission unit" criteria for the Regional Haze Rule.*}

2. Compliance Requirements: To show compliance with the SO_2 emission limit given in Specific Condition 1 of this subsection the testing, monitoring, recordkeeping, etc., shall be conducted in accordance with the requirements of 40 CFR 63, Subpart UUUUU. [Compliance with the Regional Haze Rule]

C . EU No. 004 – Fossil Fuel Fired Steam Generator Unit No. 4

This section of the permit addresses the following emissions unit.

EU No.	Emission Unit Description
004	Fossil Fuel Fired Steam Generator Unit No. 4

Unit 4 is fired with natural gas only, solid fuel only or co-fired natural gas and solid fuels consisting of a maximum of 20% petroleum coke by weight, or solid fuel blend blended with coal residual generated from the Polk Power Station.

Unit 4 is a 4330 MMBtu/hour, dry-bottom tangentially fired utility boiler manufactured by Combustion Engineering. The generator nameplate capacity is 486 MW. PM emissions generated during the operation of the unit are controlled by a dry ESP manufactured by Belco. The control efficiency of the ESP is 99.7%. SO_2 emissions are controlled by wet FGD equipment installed in 1995 and manufactured by Research-Cottrell. NO_X emissions are controlled by LNB, a separate overfire air system (SOFA) and its own SCR system. The SCR system was installed in May 26, 2007. The Unit 4 stack (BB-004) parameters are: height, 490 feet: diameter, 24 feet; exit temperature, 127°F; and, actual stack gas flow rate, 1,614,250 acfm. The BB-04 stack is equipped with a NO_X CEMS and an SO_2 CEMS to continuously monitor emissions of NO_X and SO_2. Unit 4 began commercial operation in 1985.

{Permitting Note: This emission unit is regulated under the federal Acid Rain Program for Phase II SO_2 and NO_X; NSPS Subparts A, General Provisions, and Da (Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978) of 40 CFR 60, adopted and incorporated by reference in Rule 62-204.800(8)(b)., F.A.C.; Rule 62-212.400, F.A.C.; PSD [PSD-FL-040]; Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators with More than 250 MMBtu/hour Heat Input; Rule 62-296.700, F.A.C., PM RACT; and Power Plant Siting Certification [PA 79-12].}

PREVIOUS PERMIT MODIFICATIONS

1. Other Permits: Unless otherwise specified in this subsection, these units remain subject to the applicable requirements established in all previous air construction permits issued for this facility. [Rule 62-4.070(3), F.A.C.]

EQUIPMENT

2. Unit No. 4 Maintenance: The permittee is authorized to the following maintenance projects as specified below:
   a. *Boiler Tube Replacement*. Approximately 55%, or 16,730 ft^2, of the total water wall boiler tubes are authorized to be replaced. The water wall boiler tube replacement shall be conducted as follows:
      (1) *East and West Side Water Wall Panels*. The permittee is authorized to replace 188 tubes on the east side water wall panels and 188 tubes on the west side water wall panels. Each replacement tube shall be fabricated from like-kind materials with an outer diameter (OD) of 2 inches (in), a minimum wall thickness (MWT) of 0.200 in on 2.5 in centers with welded membrane. The lower cut-line shall be at an approximate elevation of 69 ft, 10 inches (in) and the upper cut-line shall be at an approximate elevation of 160 ft. The panels shall contain a maximum of 30 tubes. Panels shall have shop welds and field weld lines located in areas that do not interfere with buckstays. Other panel equipment shall be fabricated to minimize shop and field welds.
      (2) *Front Water Wall Panels.* The permittee shall replace 279 tubes on the front water wall panels, including 23 corner tubes at each corner (46 total). Each replacement tube shall be fabricated from like-kind materials with an OD of 2 in, an MWT of 0.200 in on 2.5 in centers with welded membrane. The panels shall be located at an approximate elevation from 70 ft to 148 ft. The panels shall contain a maximum of 30 tubes. Panels shall have field weld lines located in areas that do not interfere with

buckstays. For ease of installation, the outside tube of each panel shall and the tubing on the last 6 in on either panel end shall not have membrane.

(3) *Rear Water Wall Panels*. The permittee is authorized to replace 279 tubes on the front water wall panels, including 23 corner tubes at each corner (46 total). Each replacement tube shall be fabricated from like-kind materials with an OD of 2 in, an MWT of 0.200 in on 2.5 in centers with welded membrane. The panels shall be located at an elevation from 70 ft to 149 ft, 6 in. The 23 corner tubes at each end of the rear wall shall have lower cut-lines at an approximate elevation of 60 ft. The panels shall contain a maximum of 30 tubes. Panels shall have field weld lines located in areas that do not interfere with buckstays.

b. *ESP Maintenance*. The permittee is authorized to conduct the following maintenance on the Unit No. 4 ESP:

(1) *Field Nos. 3 and 4*. The permittee is authorized to replace transformer-rectifier sets, electrodes and collecting plates of ESP Field Nos. 3 and 4. The tumbling rappers of these fields may be replaced with top rappers.

(2) *Nozzle and Hopper Relining*. The permittee is authorized to reline 4 inlet nozzles, 4 outlet nozzles and 40 fly ash collection hoppers.

(3) *ESP Enclosures*. The permittee is authorized to construct a weather enclosure on the upper precipitator and an enclosure around the lower precipitator.

c. *Miscellaneous Maintenance*. The permittee is authorized to conduct the following maintenance projects/maintenance on the following components:

(1) 4D Booster Fan Wheel;
(2) Feed Pump Element Replacement;
(3) Feed Pump Turbine Overhaul;
(4) Combined Reheat Valves Overhaul;
(5) Distributed Control System Software/Hardware;
(6) Flue Gas Desulfurization Common Inlet Duct;
(7) Generator Rewind;
(8) High Energy Pipe Hanger;
(9) High Pressure, Intermediate Pressure, Low Pressure Main Turbine and Bearings;
(10) Isophase Bus Thermal Monitoring;
(11) Main Control Valve Overhaul;
(12) Main Steam Stop Valve Overhaul;
(13) Motor Control Center Replacement;
(14) Steam Turbine Fire Protection;
(15) A Circulating Water Pumps;
(16) B Circulating Water Pumps;
(17) FGAS Shelter Replacement;
(18) Silo 3 Puff Valve Replacement;
(19) Bottom Ash Sluice Gate Replacement;
(20) 4A and 4B Coarse Mesh Screen Replacement;
(21) South Lower Furnace Structural Beam Replacement;
(22) Fine Mesh Screen Replacement (4)-Capital;
(23) Condenser Zero Ball Loss Screen;

(24) ESP Southeast Stairwell-Structural Steel;

(25) Induced Fan Load Commutated Inverter (A and B); and

(26) Forced Draft Fan (A and B).

[Permit. 0570039-122-AC]

PERFORMANCE RESTRICTIONS

3. Capacities and Fuels: The proposed work shall not result in any increase in the boiler heat input rate, fuel consumption rates and steam generation rates. [Rule 62-210.200(PTE), F.A.C.]

TESTING REQUIREMENTS

4. Initial Compliance Tests: The emissions unit shall be tested to demonstrate initial compliance with the emissions standards for ammonia slip. The initial tests shall be conducted within 60 days after achieving permitted capacity firing solid fuels, but not later than 180 days after initial operation of the unit firing solid fuels following the completion of the construction in Specific Condition **2**. NO_X emissions recorded by the CEMS shall be reported for each ammonia slip test run. CO, SO_2, NO_X and PM compliance tests are not required while the permittee operates certified CEMS for CO, SO_2, NO_X and PM, respectively. [Rules 62-4.070(3) and 62-297.310(8)(b)1, F.A.C.]

5. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(9), F.A.C.]

6. Test Methods: Required tests shall be performed in accordance with the following reference methods.

Method	Description of Method and Comments
CTM-027	Procedure for Collection and Analysis of Ammonia in Stationary Sources
320	Vapor Phase Organic and Inorganic Emissions by Extractive FTIR

Method 320 is described in Appendix A of 40 CFR 63 and adopted by reference in Rule 62-204.800, F.A.C. Conventional Test Method (CTM)-027 is published on EPA's Air Emission Measurement Center website at: https://www.epa.gov/emc/emc-conditional-test-methods. No other methods may be used unless prior written approval is received from the Department. [Rules 62-204.800, F.A.C.; and Appendix A of 40 CFR 63]

7. NSPS Subpart Da Applicability Determination (This condition was previously not number. It is now number 7, with subsequent conditions renumbered accordingly): The permittee shall conduct PM, SO_2 and NO_X emissions tests on Unit No. 4 in accordance with Appendix C of 40 CFR 60 – Determination of Emission Rate Change (see Appendix E). The permittee shall record continuous PM, SO_2 and NO_X CEMS emission rates (in pounds per hour) while firing solid fuels at testing capacity (i.e., at least 90% of the design capacity) for 2 time periods. The first period shall be prior to the commencement of construction authorized by **Specific Condition 2** and the second period shall follow the completion of construction authorized by **Specific Condition 2**. The number (n) of runs shall be between 20 and 29 for each period. Each data set shall be used to conduct a Student's t test with a 95% confidence interval (Student's t test Table in Appendix F). If the Student's t-test data shows PM, SO_2 and/or NO_X emissions increases, the permittee shall become subject to the PM standards in 40 CFR 60.42Da(e), the SO_2 standards in 40 CFR 60.43Da(l) and the NO_X standards in 40 CFR 60.44Da(g) and shall immediately begin complying with all of the provisions applicable to Unit No. 4. In such case, the applicable provisions of 40 CFR 60, Subpart Da shall be incorporated into the Title V air operation permit during the next revision (see **Specific Condition 9 of Section 2**). [Rules 62-4.070(3) & 62-297.310(3)(b), F.A.C.; and Permit. 0570039-122-AC]

RECORDS AND REPORTS

8. Test Report: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit. For each test run, the report shall also indicate the heat input rates from natural gas and solid fuels during the test. [Rule 62-297.310(10), F.A.C.]

9. Notification of Completion of Construction: The permittee shall notify the Permitting and Compliance Authorities within 15 days of completion of the construction authorized in **Specific Condition 2**. [Rule 62-4.070(3), F.A.C.]

10. Construction Report: The permittee shall submit a report to the Permitting and Compliance Authorities with the following information within 180 days after completion of the construction authorized in **Specific Condition 2**, containing the following information:
    a. The number of tubes and total surface area replaced in the east side water wall.
    b. The number of tubes and total surface area replaced in the west side water wall.
    c. The number of tubes and total surface area replaced in the front water wall.
    d. The number of tubes and total surface area replaced in the rear water wall.
    e. Start and end dates of construction.

    [Rule 62-4.070(3), F.A.C.]

11. Actual Emissions Reporting: This permit is based on an analysis that compared baseline actual emissions with projected actual emissions and avoided the requirements of subsection 62-212.400(4) through (12), F.A.C. for several pollutants. Therefore, pursuant to Rule 62-212.300(1)(e), F.A.C., the permittee is subject to the following monitoring, reporting and recordkeeping provisions.
    a. The permittee shall monitor the emissions of any PSD pollutant that the Department identifies could increase as a result of the construction or modification and that is emitted by any emissions unit that could be affected; and, using the most reliable information available, calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change. Emissions shall be computed in accordance with the provisions in Rule 62-210.370, F.A.C., which are provided in Appendix C of this permit.
    b. The permittee shall report to the Department within 60 days after the end of each calendar year during the 5-year period setting out the unit's annual emissions during the calendar year that preceded submission of the report. The report shall contain the following:
        (1) The name, address and telephone number of the owner or operator of the major stationary source;
        (2) The annual emissions calculations pursuant to the provisions of 62-210.370, F.A.C., which are provided in Appendix C of this permit;
        (3) If the emissions differ from the preconstruction projection, an explanation as to why there is a difference; and
        (4) Any other information that the owner or operator wishes to include in the report.
    c. The information required to be documented and maintained pursuant to subparagraphs 62-212.300(1)(e)1 and 2, F.A.C., shall be submitted to the Department, which shall make it available for review to the general public.
    d. The permittee shall compute and report annual emissions in accordance with Rule 62-210.370(2), F.A.C. as provided by Appendix C of this permit. For this project, the permittee shall use the following methods in reporting the actual annual NO_X, SO_2, PM and CO emissions for Unit No. 4:
        (1) The permittee shall use data collected from the CEMS to determine and report the actual annual emissions of NO_X, SO_2, PM and CO.

(2) As defined in Rule 62-210.370(2), F.A.C., the permittee shall use a more accurate methodology if it becomes available.

{Permitting Note: Baseline emissions of NO_X, SO_2, PM and CO were determined to be 1,224 TPY, 3,109 TPY, 62 TPY and 1,699 TPY, respectively. No could have accommodated (CHA) emissions were used in the PSD applicability analysis submitted by the applicant. The reporting period shall begin on the first calendar year following the completion of construction authorized by this permit.}

[Permit 0570039-122-AC; and Rules 62-212.300(1)(e) and 62-210.370, F.A.C.]

REGIONAL HAZE SO_2 EMISSION LIMIT

12. Unit 4 Regional Haze SO_2 Emission Limit: As determined by CEMS, the SO_2 emission rate shall not exceed 0.20 lb/MMBtu based on a heat input-weighted 30-boiler operating day rolling average. Compliance shall be demonstrated as determined in §63.10021(a) and (b) of the MATS rule. [Compliance with the Regional Haze Rule]

    {*Permitting Note: this federally enforcement condition satisfies the "effectively controlled emission unit" criteria for the Regional Haze Rule.*}

13. Compliance Requirements: To show compliance with the SO_2 emission limit given in Specific Condition 12 of this subsection the testing, monitoring, recordkeeping, etc., shall be conducted in accordance with the requirements of 40 CFR 63, Subpart UUUUU. [Compliance with the Regional Haze Rule]