

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
PROPOSED REVISION TO STATE IMPLEMENTATION PLAN**



SUBMITTAL NUMBER 2019-02

**REVISION TO THE PENDING JUNE 7, 2018
REDESIGNATION REQUEST AND MAINTENANCE PLAN
FOR THE HILLSBOROUGH COUNTY
SULFUR DIOXIDE (SO₂) NONATTAINMENT AREA**

April 16, 2019

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Table of Contents

Table of Contents	3
Executive Summary	4
1. Introduction.....	4
2. Background.....	4
3. TEC Permit Number 0570039-120-AC.....	4
4. Air Quality Modeling.....	5
5. SIP Development Process.....	6
Response to 40 CFR Part 51, Appendix V, Criteria	7
1. Administrative Materials	7
2. Technical Support	8
3. Exceptions.....	9
Materials to be Incorporated into the SIP.....	10
1. Permitted Limits and Conditions	10
2. Specific Limits and Conditions from the TEC Big Bend Permit.....	10
Legal Authority	12
Notice of Opportunity to Submit Comments and Participate in Public Hearing.....	14
Public Participation	16
Requests for Distris/Locals to Provide Assistance to Public.....	18
Public Comments of SIP Notice.....	19
DEP Response to Public Comments.....	20
Pre-Hearing Submittal Letter to EPA	21
EPA Comments of Pre-Hearing Submittal.....	23
DEP Response to EPA Comments.....	25
Appendix A – TEC Big Bend Station Air Construction Permit (0570039-120-AC).....	26

Executive Summary

1. Introduction

The Department of Environmental Protection (Department) is proposing a revision to the Department's pending redesignation request and Maintenance State Implementation Plan (SIP) for the Hillsborough County Nonattainment Area under the federal Clean Air Act (CAA). The pending SIP revision was submitted on June 7, 2018, and consisted of a request to redesignate the portion of Hillsborough County that was designated as "nonattainment" with respect to the 2010 revised sulfur dioxide (SO₂) national ambient air quality standard (NAAQS) to "attainment" and a request to approve an associated maintenance plan that will ensure the continued attainment of the 2010 SO₂ NAAQS in the area. This SIP submittal proposes to revise the pending June 7, 2018 SIP submittal to incorporate a recent permit revision for Tampa Electric Company (TEC), Big Bend Station (Big Bend), that restricts Big Bend Units 1 and 2 to burning only natural gas, reduces the four-unit SO₂ cap from 3,162 pounds per hour (lb/hr) to 2,156 lb/hr, and amends the method of compliance for the revised four-unit SO₂ cap.

2. Background

On June 7, 2018, the Department submitted a proposed SIP revision to EPA consisting of a request to redesignate the portion of Hillsborough County that was designated as "nonattainment" with respect to the 2010 SO₂ NAAQS to "attainment" and a request to approve an associated maintenance plan that will ensure the continued attainment of the 2010 SO₂ NAAQS in the area.

As part of the Maintenance SIP's Maintenance Demonstration, the Department proposed that the modeling analysis that relied on TEC Big Bend permit number 0570039-074-AC and the Mosaic Riverview permit number 0570008-080-AC be used to show that the area will continue to maintain compliance with the 2010 SO₂ NAAQS. TEC's Big Bend permit placed a 4-unit cap on SO₂ emissions for Units 1-4 that limited SO₂ emissions to 3,162 lb/hr on a 30-day boiler operating day average. To demonstrate compliance with the 4-unit cap, permit 0570039-074-AC required that each unit monitor SO₂ emissions with a SO₂ continuous emissions monitor system (CEMS). Because Units 1 and 2 share an FGD system for SO₂ controls, the SO₂ CEMS for Units 1 and 2 is placed downstream of the FGD, on the shared stack for Units 1 and 2.

3. TEC Permit Number 0570039-120-AC

On August 3, 2018, TEC submitted an air construction permit application for TEC Big Bend, to the Department requesting the following:

1. A fuel restriction that allows Units 1 and 2 to only burn natural gas;
2. A change in the method of compliance for the four-unit SO₂ cap that allows Units 1 and 2 to monitor SO₂ emissions using 40 CFR Part 75 and allows removal of the SO₂ CEMS from the shared stack; and
3. Other revisions to permit conditions not relevant to the air construction permit proposed to be part of the SO₂ Maintenance SIP:
 - a. Moving other monitoring requirements from the shared stack to the inlet before FGD.
 - b. Removing Mercury and Air Toxics Standards (MATS) conditions that are no longer applicable because Units 1 and 2 are now exempt from MATS requirements.

On December 14, 2018, the Department issued a final air construction permit (0570039-120-AC) for TEC Big Bend. As part of the final permit, TEC added an additional request that the four-unit SO₂ cap of 3,162 lb/hr be lowered to 2,156 lb/hr.

Due to the status of the pending Redesignation Request and the Maintenance SIP, which included the TEC Big Bend permit number 0570039-074-AC, the Department is now proposing to revise the June 7, 2018, Redesignation Request and Maintenance SIP to incorporate certain parts of the revised TEC Big Bend permit 0570039-120-AC.

Specifically, the Department is requesting to replace Specific Conditions 2 and 3 from permit 0570039-074-AC with the revised Section 3, Subsection B, Specific Conditions 2 and 3 from permit 0570039-120-AC. These conditions lower the four-unit SO₂ cap to 2,156 lb/hr (revised Condition 2) and change the method of monitoring and compliance for Units 1 and 2 (adding new monitoring requirements into revised Condition 2 and specifying that SO₂ CEMS is required for only Units 3 and 4 in revised Condition 3). The monitoring and compliance parameters for Units 3 and 4 as approved into the SIP through the adoption of conditions in permit 0570039-074-AC will remain the same, as is detailed in the revised Section 3, Subsection B, Specific Condition 3. In addition, the Department requests to incorporate Section 3, Subsection A Specific Condition 3a from permit 0570039-120-AC into the SIP, which restricts Units 1 and 2 to burning only natural gas, and Section 2, Condition 4 from permit 0570039-120-AC into the SIP, which describes new fuel monitoring requirements for Units 1 and 2. These specific conditions are detailed in the **Materials to be Incorporated into the SIP** section below.

The previous method of SO₂ emissions monitoring and compliance for Units 1 and 2 was with certified CEMS. The new method of monitoring and compliance for Units 1 and 2 utilizes the protocol in 40 CFR Part 75, Appendix D to determine the hourly SO₂ emission rate from each unit in combination with the SO₂ CEMS data from Units 3 and 4 to demonstrate compliance with the four-unit SO₂ emission cap. As required by 40 CFR Part 75, Appendix D, section 2.1, TEC will measure and record the hourly flow rate of natural gas combusted by Units 1 and 2 with an in-line fuel flowmeter. The pounds per hour SO₂ emission rates for each unit will then be calculated by using the equation provided in 40 CFR Part 75, Appendix D, section 3.3.1 along with the measured hourly natural gas flow rate to each unit and the vendor certified sulfur content of the combusted natural gas.

4. Air Quality Modeling

The June 7, 2018 SIP submittal included a modeling demonstration as part of the Maintenance Plan. The decrease in the four-unit SO₂ cap from 3,162 pounds per hour (lb/hr) to 2,156 lb/hr is not expected to change the conclusion from the modeling demonstration that the Hillsborough County Nonattainment Area is attaining the 2010 SO₂ standard.

The stack parameters for the shared stack of Units 1 and 2 have changed with the switch to natural gas. As shown in **Table 1**, the plume flowrate, exit velocity, and temperature have all increased. A faster flowrate and velocity leaving the stack leads to increased plume rise. The warmer exit temperature makes the plume more buoyant, increasing plume rise even further. With higher plume rise, pollutants disperse more before reaching the ground, leading to lower pollutant concentrations at the surface. Therefore, the new stack parameters for the shared stack of Units 1 and 2 would be expected to lead to lower modeled concentrations from improved dispersion. The stack parameters for Units 3 and 4 have not changed from those used in the modeling demonstration.

Table 1: Changes in modeled stack parameters for Big Bend Units 1-4

Source	Stack Parameters	Flowrate (ft ³ /min)	Exit Velocity (ft/sec)	Temperature (F)
Units 1 and 2 (shared stack)	Previous	2,358,171	60.04	127.2
	New	2,757,742	70.21	140.3
Unit 3	Unchanged	1,383,415	51.18	127.2
Unit 4	Unchanged	1,605,064	59.38	127.2

The stack configuration for Units 1-4 (150 m stacks spaced less than 120 m apart and over 2 km from the Hillsborough County Nonattainment Area) results in the stacks acting as a single, distant point source for receptors within the Hillsborough County Nonattainment Area. Therefore, due to the overall decrease in emissions from the four units as a whole due to the revised four-unit SO₂ cap (a 32% decrease), any potential emissions scenario with the revised cap (including all emissions coming from one unit alone) would be expected to lead to decreased modeled concentrations. Therefore, the modeling demonstration in the June 7, 2018 SIP submittal showing modeled attainment of the 2010 SO₂ NAAQS using the previous four-unit SO₂ cap of 3,162 lb/hr is more conservative and still valid for demonstrating attainment in the Hillsborough County Nonattainment Area.

5. SIP Development Process

Section 403.061(35), Florida Statutes, authorizes the Department to “exercise the duties, powers, and responsibilities required of the state under the federal Clean Air Act.” These duties and responsibilities include the development and periodic updating of Florida’s SIP. Pursuant to this statutory authority, the Department has developed this proposed SIP revision.

Pursuant to state administrative procedures and 40 CFR 51.102, on March 7, 2019, the Department published a notice in the Florida Administrative Register (FAR) announcing the opportunity for the public to provide comments, request a public hearing, and participate in a public hearing to be held on April 10, 2019, if requested, regarding the proposed revision to Florida’s SIP.

In accordance with the 30-day notice requirement of 40 CFR 51.102, this pre-hearing submittal regarding the proposed SIP revision was transmitted to EPA on March 7, 2019 and posted on the website for the Department’s Division of Air Resource Management. At the same time, notice of the opportunity to submit comments, request a public hearing, and participate in the public hearing, if requested, was transmitted to the Department’s District offices and Florida’s local air pollution control programs.

Response to 40 CFR Part 51, Appendix V, Criteria

Pursuant to 40 CFR Part 51, Appendix V, the following materials shall be included in State Implementation Plan (SIP) submissions for review and approval by the U.S. Environmental Protection Agency (EPA).

1. Administrative Materials

- a. **A formal letter of submittal from the Governor or his designee, requesting EPA approval of the plan or revision thereof (hereafter “the plan”).**

A Submittal Letter signed by the Director of the Division of Air Resource Management, Florida Department of Environmental Protection (Department), on behalf of the Governor of the State of Florida, is attached to this SIP Submittal.

- b. **Evidence that the State has adopted the plan in the State code or body of regulations; or issued the permit, order, consent agreement (hereafter “document”) in final form. That evidence shall include the date of adoption or final issuance as well as the effective date of the plan, if different from the adoption/issuance date.**

See air construction permit 0570039-120-AC contained in Appendix A, issued by the Florida Department of Environmental Protection on December 14, 2018, proposed to be incorporated into Florida’s Maintenance SIP.

- c. **Evidence that the State has the necessary legal authority under State law to adopt and implement the plan.**

The Department has the necessary legal authority to adopt and implement this proposed revision to Florida’s SIP. References to the pertinent Florida Statutes and Florida Administrative Code (F.A.C.) rules may be found in the “Legal Authority” section of this submittal.

- d. **A copy of the actual regulation, or document submitted for approval and incorporation by reference into the plan, including indication of the changes made (*such as, redline/strikethrough*) to the existing approved plan, where applicable. The submittal shall include a copy of the official State regulation/document signed, stamped and dated by the appropriate State official indicating that it is fully enforceable by the State. The effective date of any regulation/document contained in the submission shall, whenever possible, be indicated in the regulation/document itself. *If the State submits an electronic copy, it must be an exact duplicate of the hard copy with changes indicated, signed documents need to be in portable document format, rules need to be in text format and files need to be submitted in manageable amounts (e.g., a file for each section or chapter, depending on size, and separate files for each distinct document) unless otherwise agreed to by the State and Regional Office.***

See air construction permit 0570039-120-AC contained in Appendix A, issued by the Florida Department of Environmental Protection on December 14, 2018, proposed to be incorporated into Florida’s Maintenance SIP.

- e. **Evidence that the State followed all of the procedural requirements of the State’s laws and constitution in conducting and completing the adoption/issuance of the plan.**

State law (Section 120.525, F.S.) requires the Department to give notice of public meetings, hearings, and workshops by publication in the Florida Administrative Register (FAR) not less than seven days before the event. Through publication in the FAR of the notice of opportunity to participate in a public hearing, if requested, at least 30 days before the event, the Department has

complied with all state procedural requirements relevant to the development of this proposed SIP revision. A copy of the notice of proposed SIP revision may be found in the “Public Participation” section of this submittal.

f. Evidence that public notice was given of the proposed change consistent with procedures approved by EPA, including the date of publication of such notice.

The Department has complied with all public hearing requirements of 40 CFR 51.102. Copies of all relevant notices and notification emails may be found in the “Public Participation” section of this submittal.

g. Certification that public hearing(s) were held in accordance with the information provided in the public notice and the State’s laws and constitution, if applicable and consistent with the public hearing requirements in 40 CFR 51.102.

Certification of compliance with all state and federal public notice and hearing requirements will be provided in the “Letter of Submittal” for the final SIP revision.

h. Compilation of public comments and the State’ response thereto.

Written comments received during the public notice period on this proposed SIP revision, and the Department’s response thereto, will be included in the “Public Participation” section of this submittal.

2. Technical Support

a. Identification of all regulated pollutants affected by the plan.

This SIP revision addresses only the air pollutant sulfur dioxide (SO₂).

b. Identification of the locations of affected sources including the EPA attainment/nonattainment designation of the locations and the status of the attainment plan for the affected areas(s).

This SIP revision applies to the SO₂ nonattainment area in Hillsborough County defined as follows:

That portion of Hillsborough County encompassed by the polygon with the vertices using Universal Traverse Mercator (UTM) coordinates in UTM zone 17 with datum NAD83 as follows: (1) vertices – UTM Easting (m) 35881, UTM Northing 3076066; (2) vertices – UTM Easting (m) 355673, UTM Northing 3079275; (3) UTM Easting (m) 360300, UTM Northing 3086380; (4) vertices – UTM Easting (m) 366850, UTM Northing 3086692; (5) vertices – UTM Easting (m) 368364, UTM Northing 3083760; and (6) vertices – UTM Easting (m) 365708, UTM Northing 3079121.

c. Quantification of the changes in plan allowable emissions from the affected sources; estimates of changes in current actual emissions from affected sources or, where appropriate, quantification of changes in actual emissions from affected sources through calculations of the differences between certain baseline levels and allowable emissions anticipated as a result of the revision.

This proposed SIP revision would reduce the allowable emissions rate from TEC Big Bend Units 1 through 4 from 3,162 lbs/hour to 2,156 lbs/hour.

d. The State’s demonstration that the national ambient air quality standards, prevention of significant deterioration increments, reasonable further progress demonstration, and visibility, as applicable, are protected if the plan is approved and implemented. For all requests to redesignate an area to attainment for a national primary ambient air quality standard, under section 107 of the Act, a

revision must be submitted to provide for the maintenance of the national primary ambient air quality standards for at least 10 years as required by section 175A of the Act.

Not Applicable.

- e. **Modeling information required to support the proposed revision, including input data, output data, models used, justification of model selections, ambient monitoring data used, meteorological data used, justification for use of offsite data (where used), modes of models used, assumptions, and other information relevant to the determination of adequacy of the modeling analysis.**

The Department is not updating the modeling demonstration included in the June 7, 2018 Redesignation Request and Maintenance SIP Submittal in this proposed action.

- f. **Evidence, where necessary, that emission limitations are based on continuous emission reduction technology.**

See air construction permit 0570039-120-AC contained in Appendix A, issued by the Florida Department of Environmental Protection on December 14, 2018, proposed to be incorporated into Florida's Maintenance SIP.

- g. **Evidence that the plan contains emission limitations, work practice standards and recordkeeping/reporting requirements, where necessary, to ensure emission levels.**

See air construction permit 0570039-120-AC contained in Appendix A, issued by the Florida Department of Environmental Protection on December 14, 2018, proposed to be incorporated into Florida's Maintenance SIP.

- h. **Compliance/enforcement strategies, including how compliance will be determined in practice.**

See air construction permit 0570039-120-AC contained in Appendix A, issued by the Florida Department of Environmental Protection on December 14, 2018, proposed to be incorporated into Florida's Maintenance SIP.

- i. **Special economic and technological justifications required by any applicable EPA policies, or an explanation of why such justifications are not necessary.**

Not Applicable.

3. **Exceptions**

Not applicable.

Materials to be Incorporated into the SIP

1. Permitted Limits and Conditions

The Department is proposing that four specific conditions from the TEC Big Bend air construction permit (Permit No.: 0570039-120-AC) be incorporated into Florida's June 7, 2018 Redesignation Request and Maintenance SIP. EPA's approval of the revised and lowered four-unit SO₂ cap for TEC Big Bend into Florida's SIP will continue to ensure that Florida's SIP attains and maintains the 2010 SO₂ NAAQS in the Hillsborough County SO₂ Nonattainment Area.

2. Specific Limits and Conditions from the TEC Big Bend Permit

The Department is proposing that the following permit conditions from the TEC Big Bend air construction permit (Permit No.: 0570039-120-AC) be incorporated into Florida's SIP:

- Section 2, Condition 4;
- Section 3, Subsection B, Specific Condition 2;
- Section 3, Subsection B, Specific Condition 3; and
- Section 3, Subsection A, Specific Condition 3a.

Affected Units:

- EU 001 – Fossil Fuel Fired Steam Generator No. 1
- EU 002 – Fossil Fuel Fired Steam Generator No. 2
- EU 003 – Fossil Fuel Fired Steam Generator No. 3
- EU 004 – Fossil Fuel Fired Steam Generator No. 4

New Fuel Monitoring Requirements for TEC Big Bend Units 1 and 2: Section 2, Condition 4 (effective upon issuance on December 14, 2018) states that “[t]he permittee shall keep a daily log of the quantity of natural gas combusted in Units 1 and 2 and shall record the sulfur content of the natural gas as provided by the fuel supplier.”

Revised SO₂ Emissions Cap for TEC Big Bend Units 1 through 4: Section 3, Subsection B, Specific Condition 2 (effective upon issuance on December 14, 2018) states that “the combined emissions of SO₂ from all four-fossil fuel fired steam generating units (EU 001 – EU 004, combined) shall not exceed 2,156 lb/hour based on a 30-boiler operating day rolling average.”

Revised Continuous Compliance Demonstration: Section 3, Subsection B, Specific Condition 2 (effective upon issuance on December 14, 2018) states that “Units 1 and 2 shall demonstrate compliance with the cap by monitoring the natural gas fuel flow and following procedures in Appendix D of 40 CFR 75 to determine SO₂ mass emissions. For Units 3 and 4, compliance with this SO₂ emissions cap shall be demonstrated by data collected from the existing SO₂ CEMS. The new emissions cap applies at all times when these units are operating including periods of startup and shutdown.”

Revised SO₂ CEMS Requirements: Section 3, Subsection B, Specific Condition 3 (effective upon issuance on December 14, 2018) states that “[t]he permittee shall use the existing SO₂ CEMS data to demonstrate continuous compliance for Units 3 and 4 with the SO₂ emissions cap specified in [Section 3, Subsection B, Specific] Condition 2. The existing SO₂ CEMS shall continue to meet and follow the quality assurance and quality control requirements outline in the facility's Title V air operation permit.”

Restricting TEC Big Bend Units 1 and 2 to Natural Gas Only: Section 3, Subsection A, Specific Condition 3a (effective upon issuance on December 14, 2018) states that “Big Bend Units 1 and 2 shall fire only natural gas from a federally regulated pipeline. No solid fuels shall be burned in these units.”

For ease of reference, the entirety of the TEC Big Bend Permit (Permit No. 0570039-120-AC) is provided in **Appendix A**.

Legal Authority

Chapter 403 of the Florida Statutes (F.S.), entitled “Environmental Control,” provides the legal framework for most of the activities of the air resource management program within the Florida Department of Environmental Protection (Department). Except as provided at sections 403.8055 and 403.201, F.S., for fast-track rulemaking and the granting of variances under Chapter 403, F.S., respectively, Chapter 120, F.S., Florida’s “Administrative Procedure Act,” sets forth the procedures the Department must follow for rulemaking, variances, and public meetings. The most recent version of the Florida Statutes can be found online at <http://www.leg.state.fl.us/Statutes>.

The principal sections of Chapter 403, F.S., that grant the Department authority to operate its air program are listed below. Authority to develop and update Florida’s State Implementation Plan (SIP) and 111(d) Designated Facilities Plan is expressly provided by subsection 403.061(35), F.S., which provides that the Department shall have the power and the duty to control and prohibit pollution of air and water in accordance with the law and rules adopted and promulgated by it and, for this purpose, to “exercise the duties, powers, and responsibilities required of the state under the federal Clean Air Act, 42 U.S.C. ss. 7401 et seq.”

- [403.031](#) Definitions, including the definition of “regulated air pollutant” (403.031(19)).
- [403.061](#) Authority to: promulgate plans to provide for air quality control and pollution abatement (403.061(1)); adopt rules for the control of air pollution in the state (403.061(7)); take enforcement action against violators of air pollution laws, rules and permits (403.061(8)); establish and administer an air pollution control program (403.061(9)); set ambient air quality standards (403.061(11)); monitor air quality (403.061(12)); require reports from air pollutant emission sources (403.061(13)); require permits for construction, operation, and modification of air pollutant emission sources (403.061(14)); and exercise the duties, powers, and responsibilities required of the state under the federal Clean Air Act (403.061(35)).
- [403.087](#) Authority to issue, deny, modify, and revoke permits.
- [403.0872](#) Authority to establish an air operating permit program as required by Title V of the Clean Air Amendments of 1990.
- [403.0877](#) Authority to require engineering certification of permit applications.
- [403.121](#) Authority to seek judicial and administrative remedies for violations.
- [403.131](#) Authority to seek injunctive relief for violations.
- [403.141](#) Authority to find civil liability for violations.
- [403.161](#) Authority to assess civil and criminal penalties for violations.
- [403.182](#) Authority for local pollution control programs.
- [403.201](#) Authority to grant variances.
- [403.8052](#) Authority to establish a Small Business Assistance Program for small-business sources of air pollutant emissions.
- [403.8055](#) Authority to adopt U.S. Environmental Protection Agency (EPA) standards by reference through a fast-track process.
- [403.814](#) Authority to allow use of general permits (permits-by-rule) for minor sources.

Other statutory authorities, outside of Chapter 403, F.S., for Florida's air program are as follows:

- [112.3143](#) Requirement that public officials disclose potential conflicts of interest.
- [112.3144](#) Requirement for disclosure of financial interests by public officials.
- [120.569](#) Authority of agency head to issue an emergency order in response to an immediate threat to public health, safety, or welfare.
- [316.2935](#) Authority to prohibit the sale and operation of motor vehicles whose emission control systems have been tampered with, and to prohibit the operation of motor vehicles that emit excessive smoke.
- [320.03](#) Authority to establish Air Pollution Control Trust Fund and use \$1 fee on every motor vehicle license registration sold in the state for air pollution control purposes, including support of approved local air pollution control programs.
- [376.60](#) Authority to establish a fee for asbestos removal projects.

Current and historical versions of Florida Administrative Code (F.A.C.) rule sections and chapters back to January 1, 2006, may be accessed from the Florida Department of State (DOS) website <https://www.flrules.org>. The DOS website also provides access to materials adopted by reference since January 1, 2011. Department rule chapters containing State Implementation Plan (SIP) or 111(d) State Plan provisions are as follows:

- [62-204](#) Air Pollution Control – General Provisions
- [62-210](#) Stationary Sources – General Requirements
- [62-212](#) Stationary Sources – Preconstruction Review
- [62-243](#) Tampering with Motor Vehicle Air Pollution Control Equipment
- [62-252](#) Gasoline Vapor Control
- [62-256](#) Open Burning
- [62-296](#) Stationary Sources – Emission Standards
- [62-297](#) Stationary Sources – Emissions Monitoring

Other air-related Department rule chapters—not part of the SIP or 111(d) State Plan—include:

- [62-213](#) Operation Permits for Major Sources of Air Pollution (Title V)
- [62-214](#) Requirements for Sources Subject to the Federal Acid Rain Program
- [62-257](#) Asbestos Program

Notice of Opportunity to Submit Comments and Participate in Public Hearing

Florida Administrative Register

Volume 45, Number 46, March 7, 2019

For more information, you may contact:
Lauren.Vossler@watermatters.org; 1(800)423-1476 (FL only)
or (352)796-7211, x4605 (Ad Order EXE0668).

WATER MANAGEMENT DISTRICTS

Southwest Florida Water Management District
The Southwest Florida Water Management District (SWFWMD) announces a public meeting to which all persons are invited.

DATE AND TIME: Tuesday, March 26, 2019, 9:00 a.m.

PLACE: SWFWMD Brooksville Office, 2379 Broad Street, Brooksville FL 34604

GENERAL SUBJECT MATTER TO BE CONSIDERED: Governing Board Meeting, Committee Meetings and Public Hearing: Consider SWFWMD business. All or part of this meeting may be conducted by means of communications media technology to permit maximum participation of Governing Board members.

A copy of the agenda may be obtained by contacting: WaterMatters.org – Boards, Meetings & Event Calendar; 1(800)423-1476 (FL only) or (352)796-7211.

Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in this workshop/meeting is asked to advise the agency at least 5 days before the workshop/meeting by contacting: SWFWMD Human Resources Office Chief at 1(800)423-1476 (FL only) or (352)796-7211, x4703; TDD (FL only) 1(800)231-6103; or email to ADACoordinator@swfwmd.state.fl.us. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1(800)955-8771 (TDD) or 1(800)955-8770 (Voice).

If any person decides to appeal any decision made by the Board with respect to any matter considered at this meeting or hearing, he/she will need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence from which the appeal is to be issued.

For more information, you may contact:
Lori.Manuel@watermatters.org; 1(800)423-1476 (FL only) or
(352)796-7211, x4606 (Ad Order EXE0667).

DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

Florida Building Commission

The Florida Building Commission, BOAF Binding Interpretation Panel announces a public meeting to which all persons are invited.

DATE AND TIME: March 15, 2019, 3:00 p.m.

PLACE: Meeting to be conducted using communications media technology (teleconference and webinar). Please join the meeting at <https://global.gotomeeting.com/join/381525821> Or, join the conference call: United States (toll-free): 1(877)309-

2073 Meeting ID / Access Code: 381-525-821 Audio PIN: Shown after joining the meeting.

Public point of access: 2601 Blair Stone Road, Tallahassee, Florida 32399

GENERAL SUBJECT MATTER TO BE CONSIDERED: To consider and make determination on a request for binding interpretation – Petition #172 Petitioned by Creative World Schools Three Oaks LLC.

A copy of the agenda may be obtained by contacting: Joe Bigelow, Codes & Standards, DBPR, 2601 Blair Stone Road, Tallahassee, Florida 32399. Call at (850)487-1824 or visit the agency website at floridabuilding.org.

Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in this workshop/meeting is asked to advise the agency at least 7 days before the workshop/meeting by contacting: Ms. Barbara Bryant, Codes & Standards, DBPR, 2601 Blair Stone Road, Tallahassee, Florida 32399. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1(800)955-8771 (TDD) or 1(800)955-8770 (Voice). If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1(800)955-8771 (TDD) or 1(800)955-8770 (Voice).

If any person decides to appeal any decision made by the Board with respect to any matter considered at this meeting or hearing, he/she will need to ensure that a verbatim record of the proceeding is made, which record includes the testimony and evidence from which the appeal is to be issued.

For more information, you may contact: Joe Bigelow, Codes & Standards, DBPR, 2601 Blair Stone Road, Tallahassee, Florida 32399. Call at (850)487-1824 or visit the agency website at floridabuilding.org.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

The Department of Environmental Protection, Division of Air Resource Management, announces a hearing, if requested, to which all persons are invited.

DATE AND TIME: April 10, 2019, 10:00 a.m.

PLACE: Department of Environmental Protection, Bob Martinez Center, 2600 Blair Stone Road, Room 195, Tallahassee, Florida.

GENERAL SUBJECT MATTER TO BE CONSIDERED: Pursuant to 40 CFR 51.102, the Department of Environmental Protection (DEP) announces a public hearing and opportunity to offer comments on a proposed revision to Florida's State Implementation Plan (SIP) under the Clean Air Act. This proposed SIP revision consists of an amendment to DEP's June 7, 2018 proposed redesignation request and maintenance plan for the Hillsborough County sulfur dioxide (SO₂) nonattainment area. This amendment consists of incorporating recent permit revisions for Tampa Electric Company, Big Bend

945

Station, that restricts Big Bend Units 1 and 2 to firing only natural gas, lowers the four-unit SO2 cap, and amends the method of compliance used for the four-unit SO2 emissions cap to remove the continuous emission monitoring systems for Units 1 and 2, replacing it with using 40 CFR Part 75 to calculate SO2 emissions. The materials comprising DEP’s proposed SIP revision may be obtained through DEP’s website at <https://floridadep.gov/air/air-business-planning/content/air-regulatory-projects> or by contacting Hastings Read at Hastings.Read@Floridadep.gov. The materials may also be inspected during normal business hours at DEP, Division of Air Resource Management offices, Bob Martinez Center, 2600 Blair Stone Road, Tallahassee, Florida. A public hearing will be held, if requested, at the date, time and place given above. Any request for a public hearing must be submitted by letter or e-mail to Hastings Read, Department of Environmental Protection, Division of Air Resource Management, 2600 Blair Stone Road, MS #5500, Tallahassee, Florida 32399-2400 (Hastings.Read@Floridadep.gov), and received no later than April 8, 2019. A copy of the agenda may be obtained by contacting: Mr. Read by letter or email at the above addresses or by calling (850)717-9017. It is not necessary that the hearing be held or attended for persons to comment on DEP’s proposed submittal to EPA. Any comments must be submitted to Hastings Read by letter or e-mail, with a copy to Terri Long (Terri.Long@Floridadep.gov), and received no later than April 8, 2019.

If no request for a public hearing is received, the hearing will be cancelled, and notice of the cancellation will be posted at the following website:

https://floridadep.gov/events/month?field_county_tid=All&field_id_is_a_public_notice_value=Yes.

Persons may also contact Terri Long at (850)717-9023 to find out if the hearing has been cancelled. Pursuant to the provisions of the Americans with Disabilities Act, any person requiring special accommodations to participate in this workshop/meeting is asked to advise the agency at least 48 hours before the workshop/meeting by contacting Terri Long at (850)717-9023 or Terri.Long@Floridadep.gov. If you are hearing or speech impaired, please contact the agency using the Florida Relay Service, 1(800)955-8771 (TDD) or 1(800)955-8770 (Voice).

For more information, you may contact Hastings Read by letter or e-mail, or by calling (850)717-9017.

DEPARTMENT OF FINANCIAL SERVICES

OIR – Insurance Regulation

The Office of Insurance Regulation announces a hearing to which all persons are invited.

DATE AND TIME: March 14, 2019, 5:00 p.m.

PLACE: Kovens Conference Center, Florida International University, Biscayne Bay Campus, Bayview Ballroom South, Room 214A, 3000 NE 151st Street, North Miami, FL 33181-3000

GENERAL SUBJECT MATTER TO BE CONSIDERED: Citizens Property Insurance Corporation (“Citizens”) has requested statewide average rate changes for its business in the Coastal Account (“CA”), Commercial Lines Account (“CLA”), and Personal Lines Account (“PLA”). These accounts include, but are not limited to: commercial property, homeowners, mobile homeowners, and dwelling/fire. The below chart identifies the proposed rate changes that have already been filed with the Office:

- 19-00251: +5.3% Commercial Residential Multi-Peril - Condo Associations (CLA)
- 19-00252: +5.0% Commercial Residential Multi-Peril - Excluding Condo Associations (CLA)
- 19-00275: +5.0% Commercial Non-Residential Multi-Peril (CLA)
- 19-00387: +10.5% Commercial Residential Wind Only - Condo Associations (CA)
- 19-00388: +10.0% Commercial Residential Wind Only - Excluding Condo Associations (CA)
- 19-00470: +10.0% Commercial Non-Residential Wind Only (CA)
- 19-00810: +8.5% Homeowners Multi-Peril (PLA)
- 19-00811: +8.7% Homeowners Wind Only (CA)
- 19-00843: +8.7% Property/Personal (Dwelling Fire) (PLA)
- 19-00844: +8.2% Property/Personal (Dwelling Fire) Wind Only (CA)
- 19-00931: +1.6% Mobile Homeowners Multi-Peril (PLA)
- 19-00932: +9.8% Mobile Homeowners Wind Only (CA)
- 19-00955: +8.0% Mobile Homeowners (Dwelling Fire) (PLA)
- 19-00956: +9.6% Mobile Homeowners (Dwelling Fire) Wind Only (CA)

(There are no proposed rate changes for sinkhole coverage.)

The effective date for the Coastal Account (“CA”), Commercial Lines Account (“CLA”), and Personal Lines Account (“PLA”) is September 1, 2019, for new and renewal business.

An agenda listing the rate filings subject to this hearing will be posted on the Office’s website at <http://www.flor.com>.

Florida law allows the Office of Insurance Regulation to hold a public hearing for any purpose within the scope of the Insurance Code deemed to be necessary. Input from the insurer as well as interested parties will be received at this public hearing. If you are unable to attend this public hearing, please forward your comments to the Office of Insurance Regulation at ratehearings@flor.com; the subject line of your e-mail should read “Citizens.”

Public Participation

Response to 40 CFR 51.102 Requirements

(a) Except as otherwise provided in paragraph (c) of this section and within the 30-day notification period as required by paragraph (d) of this section, States must provide notice, provide the opportunity to submit written comments and allow the public the opportunity to request a public hearing. The State must hold a public hearing or provide the public the opportunity to request a public hearing. The notice announcing the 30-day notification period must include the date, place and time of the public hearing. If the State provides the public the opportunity to request a public hearing and a request is received the State must hold the scheduled hearing or schedule a public hearing (as required by paragraph (d) of this section). The State may cancel the public hearing through a method it identifies if no request for a public hearing is received during the 30 day notification period and the original notice announcing the 30 day notification period clearly states: *If no request for a public hearing is received the hearing will be cancelled; identifies the method and time for announcing that the hearing has been cancelled; and provides a contact phone number for the public to call to find out if the hearing has been cancelled.*

The opportunity to submit written comments, request a public hearing, and participate in a public hearing, if requested, on the proposed SIP revision was advertised in the Florida Administrative Register (FAR) at least 30 days prior to the scheduled date of the hearing. Information regarding the date, place, and time of the public hearing was included in the notice along with information on how to request the hearing or ascertain whether the hearing would be cancelled. A copy of the notice is included in this section. No hearing was requested; therefore, no hearing was held.

(b) Separate hearings may be held for plans to implement primary and secondary standards.

Not applicable.

(c) No hearing will be required for any change to an increment of progress in an approved individual compliance schedule unless such change is likely to cause the source to be unable to comply with the final compliance date in the schedule. The requirements of §§51.104 and 51.105 will be applicable to such schedules, however.

Not applicable.

(d) Any hearing required by paragraph (a) of this section will be held only after reasonable notice, which will be considered to include, at least 30 days prior to the date of such hearing(s):

(1) Notice given to the public by prominent advertisement in the area affected announcing the date(s), time(s), and place(s) of such hearing(s);

The opportunity to submit comments, request a public hearing, and participate in a public hearing, if requested, on the proposed SIP revision was advertised in the FAR at least 30 days prior to the scheduled date of the hearing (see response (a)).

(2) Availability of each proposed plan or revision for public inspection in at least one location in each region to which it will apply, and the availability of each compliance schedule for public inspection in at least one location in the region in which the affected source is located;

The materials proposed to be incorporated into the SIP were made available for public inspection in the offices of DEP's Division of Air Resource Management (DARM) and on the DARM website. The materials were also made accessible to the public through each of the DEP's district offices and in the offices of each DEP-approved local air pollution control program. The notifications that such information be made available by the district and local offices are included in this section.

(3) Notification to the Administrator (through the appropriate Regional Office);

The Region 4 office of the EPA was notified at least 30 days in advance of the scheduled hearing date and provided with copies of the materials proposed to be incorporated into the SIP. The pre-hearing submittal letter is included in the “Pre-Hearing Submittal to EPA” section of this submittal.

(4) Notification to each local air pollution control agency which will be significantly impacted by such plan, schedule or revision;

Notification to affected local programs occurred with the transmittal of e-mails requesting that the material proposed to be incorporated into the SIP be made available for public inspection (see response (d)(2)).

(5) In the case of an interstate region, notification to any other States included, in whole or in part, in the regions which are significantly impacted by such plan or schedule or revision.

Not applicable.

(e) The State must prepare and retain, for inspection by the Administrator upon request, a record of each hearing. The record must contain, as a minimum, a list of witnesses together with the text of each presentation.

No hearing was requested; therefore, no hearing was held.

(f) The State must submit with the plan, revision, or schedule, a certification that the requirements in paragraph (a) and (d) of this section were met. Such certification will include the date and place of any public hearing(s) held or that no public hearing was requested during the 30-day notification period.

Certification is provided in the letter of submittal that the opportunity to submit comments, request a public hearing, and participate in a public hearing on the proposed SIP revision was noticed in accordance with the requirements of 40 CFR 51.102. No hearing was requested; therefore, no hearing was held.

(g) Upon written application by a State agency (through the appropriate Regional Office), the Administrator may approve State procedures for public hearings. [...]

Not applicable.

Requests for Distris/Locals to Provide Assistance to Public

Long, Terri

From: Long, Terri
Sent: Thursday, March 7, 2019 12:47 PM
To: 'John Hickey'; 'Tallam, Laxmana'; 'Fernandez, Lorenzo'; satyal, AJ; 'woodard@epch.org'; 'MCWilliams@coj.net'; 'susana.palmino@miamidade.gov'; 'Wanda.Parker@ocfl.net'; Hamilton, Shawn; Strong, Greg; Watkins, Aaron; Yeargan, Mary; Iglehart, Jon; Smith, Jennifer K.
Cc: Read, Hastings
Subject: Florida DEP - Notice of Proposed SIP Revisions - Districts - Locals
Attachments: SIP 2019-02 FAR Notice of Hearing Hillsborough SO2 Revision 3-7-19.pdf

Good afternoon,

Notice is hereby given that, pursuant to 40 CFR 51.102, the Florida Department of Environmental Protection is accepting comments and will hold public hearing(s), if requested

on proposed revisions to Florida's State Implementation Plans (SIP) requesting resignation for the Hillsborough County SO2 nonattainment area.

Please find attached the notice of opportunity to offer comments and request a public hearing. This notice was published on Thursday, March 7, 2019, in the Florida Administrative Register. The comment period for these proposed SIP revisions will close on April 8, 2019, and the public hearing, if requested will be held on Wednesday, April 10, 2019.

The materials comprising the proposed SIP revisions will be posted at <https://floridadep.gov/air/air-business-planning/content/air-regulatoryprojects>. Please assist any member of the public who may contact you to view these materials. In the event that members of the public have substantive questions related to the proposed revisions, please direct them to Hastings.Read@FloridaDEP.gov , (850) 717-9017.

Thank you,
Terri Long
Office of Business Planning
Division of Air Resource Management
Florida Department of Environmental Protection
(850) 717-9023
Terri.long@FloridaDEP.gov

Public Comments of SIP Notice

No public comments were received.

DEP Response to Public Comments

No public comments were received; therefore, DEP did not prepare any responses to public comments.

Pre-Hearing Submittal Letter to EPA



FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nufiez
Lt. Governor

Noah Valenstein
Secretary

Via U.S. Mail and Electronic Mail

March 7, 2019

Ms. Mary Walker
Acting Regional Administrator
U. S. Environmental Protection Agency (EPA) – Region 4
61 Forsyth Street, SW – Mail Code: 9T25
Atlanta, GA 30303-8909

Re: Air Program Pre-Hearing Submittal: Proposed Revision to Florida's June 7, 2018
State Implementation Plan – Redesignation Request and Maintenance Plan for the
Hillsborough County Sulfur Dioxide (SO₂) Nonattainment Area

Dear Ms. Walker:

Pursuant to 40 C.F.R. 51.102, the Florida Department of Environmental Protection (Department) is submitting a pre-hearing State Implementation Plan (SIP) package to revise Florida's SIP under the federal Clean Air Act (CAA).

This State Plan submittal proposes to revise Florida's June 7, 2018 Redesignation Request and Maintenance Plan for the Hillsborough County Sulfur Dioxide (SO₂) Nonattainment Area. This amendment consists of incorporating recent permit revisions for Tampa Electric Company, Big Bend Station, that restricts Big Bend Units 1 and 2 to firing only natural gas, lowers the four-unit SO₂ cap, and amends the method of compliance used for the four-unit SO₂ emissions cap to remove the continuous emission monitoring systems for Units 1 and 2, replacing it with using 40 CFR Part 75 to calculate SO₂ emissions.

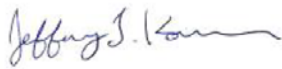
On March 7, 2019, the Department published in the Florida Administrative Register a notice of opportunity to submit comments regarding this proposed SIP revision, request a public hearing, or participate in a public hearing on April 10, 2019, if requested.

Ms. Mary Walker
Page 2 of 2
March 7, 2019

The Department has sent the complete pre-hearing SIP submittal package (hard copy and electronic copy) directly to the Air Planning Branch. The electronic copy is in a searchable format and is an exact duplicate of the hard copy.

The Department respectfully requests that EPA provide any comments on this submittal by April 8, 2019. If you have any questions, please contact Hastings Read at (850) 717-9017 or by email at Hastings.Read@FloridaDEP.gov.

Sincerely,



Jeffery F. Koerner, Director
Division of Air Resource Management

JFK/tl

cc (with Pre-Hearing SIP package):
Beverly Bannister, Division Director, Air, Pesticides and Toxics Management Division,
EPA Region 4;
R. Scott Davis, Chief, Air Planning and Implementation Branch, EPA Region 4

EPA Comments of Pre-Hearing Submittal



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

April 4, 2019

Jeff Koerner
Air Director
Division of Air Resource Management
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Koerner:

Thank you for your letter dated March 7, 2019, transmitting a prehearing submission requesting changes to Florida's State Implementation Plan (SIP) respecting the June 7, 2018 redesignation request and maintenance plan for the Hillsborough County Sulfur Dioxide (SO₂) nonattainment area. This SIP revision is subject to a public hearing, if requested, which would be held on April 10, 2019. We have completed our review of the prehearing package and offer the enclosed comment for your consideration.

We look forward to continuing to work with you and your staff. If you have any questions, please contact Jane Spann, Acting Chief, Air Regulatory Management Section, at (404) 562-9029, or have your staff contact Tiereny Bell at (404) 562-9088.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lynorae Benjamin".

Lynorae Benjamin
Acting Chief
Air Planning and Implementation Branch

Enclosure

**The U.S. Environmental Protection Agency Comments on
Florida's State Implementation Plan (SIP) Revision Submittal Redesignation Request and
Maintenance Plan for the Hillsborough County, Florida Nonattainment Area for the
2010 1-hour Sulfur Dioxide (SO₂) National Ambient Air Quality Standards**

General Comment

- 1. Section 4 – Air Quality Modeling** – The EPA recommends Florida provide additional explanation for why the revised 30-day emission cap for Units 1 thru 4 will not impact the existing air dispersion modeling results that demonstrate attainment of the 1-hour SO₂ standard. To strengthen the SIP submittal, the EPA believes it would be helpful to have a comparison of the previous versus new stack parameters for all four units and not just the units converted to natural gas (Units 1 and 2). Since the SO₂ emissions from Units 1 and 2 have been reduced to almost zero, the comparison of stack parameters for Units 3 and 4 is the more important factor for evaluating the representativeness of the air dispersion modeling in the June 2018 redesignation request and maintenance plan SIP submittal.

DEP Response to EPA Comments

Response to EPA Comments: April 4, 2019, letter to Jeff Koerner, Division of Air Resource Management, from Lynorae Benjamin, Acting Chief, Air Planning and Implementation Branch, U. S. Environmental Protection Agency, Region 4.

General Comment

1. The Department has clarified in the submittal that the stack parameters for Tampa Electric Company Big Bend Station Units 3 and 4 have not changed from those used in the modeling demonstration included in the June 7, 2018 SIP submittal. **Table 1** in Section 4 of this SIP submittal has been updated to include the stack parameters for Units 3 and 4, in addition to Units 1 and 2, and specifies that they are unchanged.

Appendix A – TEC Big Bend Station Air Construction Permit (0570039-120-AC)



FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE

Tampa Electric Company
13031 Wyandotte Road
Gibsonton, Florida 33534-5833

Authorized Representative:
Dave Pickles, Director of Big Bend Station

Air Permit No. 0570039-120-AC
Permit Expires: December 31, 2019
Minor Air Construction Permit
Big Bend Station
Natural Gas Firing for Units 1 and 2

PROJECT

This is the final air construction permit, which revises multiple air construction permits for the following items: fuel slate restrictions and monitoring point locations for Big Bend Units 1 and 2. The Big Bend Station is an existing electric generation facility, 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 3,074.91 km North.

This final permit is organized into the following sections: Section 1 (General Information) and Section 2 (Permit Revisions). As noted in the Final Determination provided with this final permit, only a minor change was 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.). 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. A copy of this permit modification shall be filed with the referenced permit and shall become part of the permit.

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.

A handwritten signature in black ink that reads "David Lyle Read, P.E.".

David Lyle Read, P.E.
2018.12.14 13:01:14 -05'00'

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

FINAL PERMIT

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Permit Revision, Technical Evaluation and Preliminary Determination, Final Determination, and Appendices) 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. Dave Pickles, Tampa Electric Company: dpickles@tecoenergy.com
Mr. Rob Velasco, P.E., Tampa Electric Company: ravelasco@tecoenergy.com
Mr. Byron Burrows, P.E., Tampa Electric Company: btburrows@tecoenergy.com
Southwest District Compliance: SWD_Air@dep.state.fl.us
Southwest District Air Permitting: SWD_Air_Permitting@dep.state.fl.us
Ms. Diana Lee, Hillsborough County Environmental Protection Commission: lee@epchc.org
DEP Siting Office: SCO@dep.state.fl.us
Ms. Alisa Coe, Earth Justice: acoe@earthjustice.org
EPA Region 4: R4TitleVFL@epa.gov
Ms. Lynn Searce, DEP OPC: lynn.searce@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 Searce Digitally signed by Lynn Searce
Date: 2018.12.14 13:37:33 -05'00'

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The Big Bend Station is a nominal 1,892 megawatt (MW) electric generation facility. This facility consists of four fossil fuel fired electric generating units (Units 1 – 4); four steam turbines; a simple cycle combustion turbine (SCCT)-generator peaking unit set; solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities; and, fuel oil storage tanks. Units 1 through 4 each has a nominal maximum heat input of 4,037, 3,996, 4,115 and 4,330 million British thermal units per hour (MMBtu/hour), respectively. Units 1 and 2 are fired with natural gas only. Units 3 and 4 are fired with natural gas 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. The combustion turbine is fired with pipeline-quality natural gas and ultra-low sulfur diesel (ULSD) fuel.

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

EU No.	Emission Unit Description
<i>Regulated Emissions Units</i>	
<i>Fossil Fuel Fired Steam Generator Units</i>	
001	Fossil Fuel Fired Steam Generator No. 1
002	Fossil Fuel Fired Steam Generator No. 2
003	Fossil Fuel Fired Steam Generator No. 3
004	Fossil Fuel Fired Steam Generator No. 4
<i>Simple Cycle Combustion Turbines</i>	
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
<i>Solid Fuel Yard</i>	
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
047	Railcar Unloading and Conveying System
048	Supplemental Material Handling J3 Conveyor System
<i>Coal Bunkers with Roto-Clones</i>	
015	Unit No. 1 Coal Bunker with Roto-Clone
016	Unit No. 2 Coal Bunker with Roto-Clone
017	Unit No. 3 Coal Bunker with Roto-Clone
039	Unit No. 4 Coal Bunker with Roto-Clone
<i>Limestone Handling and Storage</i>	
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
<i>Limestone Handling for FGD System for Units 1 & 2</i>	
020	Limestone Conveyors LE/LF/LG/Silo C Belt Feeder Baghouse
021	Silo C and Baghouse

SECTION 1. GENERAL INFORMATION

EU No.	Emission Unit Description
<i>Wastewater Treatment Plant</i>	
022	Lime Silo for Wastewater Treatment Plant and Baghouse
<i>Fly Ash Handling and Storage Silo Nos. 1 – 3</i>	
008	Fly Ash Silo No. 1 and Baghouse
009	Fly Ash Silo No. 2 and Baghouse
014	Fly Ash Silo No. 3 and Baghouse
<i>Coal Residual Storage and Transfer from the Polk Power Station</i>	
037	Coal Residual and Supplemental Additives Storage Facility
038	Coal Residual and Supplemental Additives Transfer System
<i>Surface Coating Operations</i>	
032	Surface Coating of Miscellaneous Metal Parts
<i>Compression Ignition (CI) Internal Combustion Engines (ICE)</i>	
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)
<i>Unregulated Emissions Units and/or Activities</i>	
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)

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(PSD), F.A.C.
- The facility operates 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 operates units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

PROPOSED PROJECT

This project will authorize natural gas as the only fuel to be fired in Big Bend Units 1 and 2 (EU 001 and 002) so that the units are no longer subject to 40 CFR 63 Subpart UUUUU - National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units, called the Mercury and Air Toxic Standards (MATS). Emissions Units 008, 015, and 016 will be removed because of this project because they are not necessary for natural gas firing operations. Additionally, this project will authorize the relocation of the existing nitrogen oxides (NO_x), carbon dioxide (CO₂), and ammonia (NH₃) monitoring points from the Units 1 and 2 common stack to the common inlet duct of the flue gas desulfurization (FGD) system for Units 1 and 2.

This project will modify the following emissions units.

Tampa Electric Company
Big Bend Station

Air Permit No. 0570039-120-AC
Natural Gas Firing for Units 1 and 2

SECTION 1. GENERAL INFORMATION

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
008	Fly Ash Silo No. 1 and Baghouse
015	Unit No. 1 Coal Bunker with Roto-Clone
016	Unit No. 2 Coal Bunker with Roto-Clone

SECTION 2. NEW CONDITIONS

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

PREVIOUSLY ISSUED PERMITS

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

MONITORING AND COMPLIANCE REQUIREMENTS

2. Fuel Flow Monitors: The permittee shall install, certify, operate, and maintain fuel flow monitors for Big Bend Units 1 and 2 (EU 001 and EU 002) to demonstrate compliance with the 4-unit SO₂ emissions cap (see **Specific Condition 4, 2** of Section 3). [Rule 62-4.070(3), F.A.C.; and Application No. 0570039-120-AC]
3. NO_x and CO₂ Monitoring Points: The permittee is authorized to monitor NO_x and CO₂ emissions and conduct required ammonia slip stack tests at the common inlet duct to the FGD system for Units 1 and 2. [Rule 62-4.070(3), F.A.C.; and Application No. 0570039-120-AC]

RECORDKEEPING AND REPORTING REQUIREMENTS

4. Fuel Monitoring and SO₂ Emissions: The permittee shall keep a daily log of the quantity of natural gas combusted in Units 1 and 2 and shall record the sulfur content of the natural gas as provided by the fuel supplier. The SO₂ mass emissions calculated by following procedures in Appendix D of 40 CFR 75 shall be averaged on a 30-boiler operating day basis to demonstrate the contribution of Units 1 and 2 to the 4-unit SO₂ cap. [Rule 62-4.070(3), F.A.C.; and Application No. 0570039-120-AC]

SECTION 3. PERMIT REVISIONS

The following permit conditions are revised as indicated. ~~Strikethrough~~ is used to denote the deletion of text. Double-underlines are used to denote the addition of text. All changes are emphasized with yellow highlight. Except for the modified conditions noted below, all other previously established permits and conditions remain in effect.

1. Permit Being Modified: Permit No. 0570039-024-AC

Affected EU: EU 001 & EU 002

Specific Condition A.17: This condition is revised as follows:

- A.17. As determined by stack test, ~~Ammonia slip, measured at the stack downstream of all emissions control systems,~~ shall not exceed 10 parts per million by volume (ppmv). The stack test shall be conducted on the stack or at the common inlet duct to the FGD system. Annual testing of ammonia slip shall be conducted, and corrective measures taken if measured values exceed 5 ppmv. ~~[Applicant request; and Rule 62-4.070(3), F.A.C.; and Application No. 0570039-120-AC]~~

2. Permit Being Modified: Permit No. 0570039-060-AC

Affected EU: EU 001 – EU 004

Section III, Subsection B, Specific Condition 1: This condition is revised as follows:

1. PM Emissions. ~~As determined by PM CEMS, Particulate matter~~ PM emissions from ~~each unit~~ Unit 3 shall not exceed 0.03 pounds per million Btu heat input on a heat input-weighted 30-day rolling average when combusting solid fuels. ~~[Applicant Request; and, Permit No. 0570039-060-AC and Application No. 0570039-120-AC]~~

Section III, Subsection B, Specific Condition 3: This condition is revised as follows:

3. PM Emissions. ~~As determined by PM CEMS, Particulate matter~~ PM emissions from Unit 4 shall not exceed 0.01 pounds per million Btu heat input on a heat input-weighted 30-day rolling average when burning combusting solid or liquid fuels. This standard applies at all times except during periods of startup, shutdown, or malfunction. ~~[Applicant Request; and, Permit No. 0570039-060-AC and Application No. 0570039-120-AC]~~

3. Permit Being Modified: Permit No. 0570039-082-AC

Affected EU: EU 001 and EU 002

Section 3, Specific Condition 2: This condition is revised as follows:

2. PM CEMS. Tampa Electric Company is authorized to install particulate matter (PM) continuous monitoring systems (CEMS) on Units ~~1 through 3 and~~ 4 at the facility. This will eliminate the need to operate the continuous opacity monitors and will eliminate the compliance assurance monitoring (CAM) plan. The equipment is manufactured by SICK MAIHAK (Germany), with model number FWE200. ~~[0970039-082-AC, Application, Permit No. 0570039-082-AC and Application No. 0570039-120-AC]~~

4. Permit Being Modified: Permit No. 0570039-096-AC

Affected EU: EU 001 and EU 002

Section 3, Subsection B, Specific Conditions 2 and 3: These conditions are revised as follows:

2. SO₂ Emissions Cap. The combined emissions of SO₂ from all four-fossil fuel fired steam generating units (EU 001 – EU 004, combined) shall not exceed ~~3,162 lb/hour~~ 2,156 lb/hour based on a 30-boiler operating day rolling average. Units 1 and 2 shall demonstrate compliance with the cap by monitoring the natural gas fuel flow and following procedures in Appendix D of 40 CFR 75 to determine SO₂ mass emissions. For Units 3 and 4, compliance with this SO₂ emissions cap shall be demonstrated by data collected from the existing SO₂ CEMS. The new emissions cap applies at all times when these units are

SECTION 3. PERMIT REVISIONS

operating including periods of startup and shutdown. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and Hillsborough County SO₂ Attainment Maintenance SIP; and Application No. 0570039-120-AC]

3. SO₂ CEMS. The permittee shall use the existing SO₂ CEMS data to demonstrate continuous compliance for Units 3 and 4 with the SO₂ emissions cap specified in Condition 2. The existing SO₂ CEMS shall continue to meet and follow the quality assurance and quality control requirements outline in the facility's Title V air operation permit. [Rules 62-4.070(1) and (3), and 62-4.080(1), F.A.C.; and SO₂ Attainment SIP; and Application No. 0570039-120-AC]

5. Permit Being Modified: Permit No. 0570039-109-AC

Affected EU: EU 001 – EU 003

Section 3, Subsection A, Specific Conditions 2, and 7: These conditions are modified as follows:

2. FGD and ESP Operating Exemption. Units 1 and 2 are not required to operate the FGD and ESP control devices because natural gas is the only fuel combusted by those units. For Unit 3, the FGD and ESP control devices are not required to operate only while exclusively firing pipeline-quality natural gas. [Application No. 0570039-109-AC]
7. NO_x Emissions.
 - a. As determined by CEMS, NO_x emissions from each electrical generating unit shall not exceed 0.12 pounds per million British thermal unit (lb/MMBtu) of heat input based on a heat input weighted 30-day rolling average. {Permitting Note: For informational purposes, the NO_x limit equates to: 484.4 lb/hour and 2,121.9 tons/year for Unit 1; 479.5 lb/hour and 2,100.3 tons/year for Unit 2; and 494 lb/hour and 2,163.7 tons/year for Unit 3.}
 - b. As determined by CEMS, NO_x emissions from Unit 3 shall not exceed 0.70 lb/MMBtu based on a heat input weighted 30-day rolling average. {Permitting Note: Compliance with this emission limit will be demonstrated by complying with the 0.12 lb/MMBtu NO_x limit.}[Rules 62-296.405(1)(d)4., and 62-213.440, F.A.C.; Permit No. 0570039-060-AC; and Application No. 0570039-109-AC; and Application No. 0570039-120-AC]

Section 3, Subsection A, Specific Condition 8: This condition is replaced as follows:

8. SO₂ Emissions.
 - a. As determined by CEMS, SO₂ emissions from Unit 3 shall not exceed 0.82 0.25 lb/MMBtu heat input and 10% of the potential combustion concentration (90% reduction) based on a 30-day rolling average when combusting solid fuels. [Application No. 0570039-109-AC 120-AC]

6. Permits Being Modified: Permit Nos. 0570039-066-AC & 109-AC

Affected EU: EU 001 – EU 004

Section 3, Subsection A, Specific Condition 3 of Permit No. 0570039-066-AC and 109-AC, respectively: These conditions are replaced with the following condition:

3. Methods of Operation.
 - a. Units 1 and 2. Big Bend Units 1 and 2 shall fire only natural gas from a federally regulated pipeline. No solid fuels shall be burned in these units.
 - b. Units 3 and 4.
 - (1) Fuels – Normal Operation. The fuels that are allowed to be burned in these units are:
 - (a) Natural gas from a federally regulated pipeline.
 - (b) Solid fuels consist of coal, coal blends or a coal/petroleum coke blend containing a maximum of 20% petroleum coke by weight, or a 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.

SECTION 3. PERMIT REVISIONS

- (c) ~~Natural gas co-fired with solid fuels.~~ Solid fuels co-fired with natural gas from a federally regulated pipeline.
- (d) Petroleum coke content of any fuel blend shall not exceed 20% by weight.
- (2) *Fuels – Startup, Shutdown, Flame Stabilization.*
 - (a) Natural gas;
 - ~~(b) Natural gas may also be fired during the start of an additional solid fuel mill on an already operating unit.~~
- (3) *Other Operation.*
 - (a) Raw Coal Residual. The total amount of raw coal residual fired at Big Bend Station (Units ~~4~~ 3 & 4, combined) shall be limited to 200 tons/day. The raw coal residual is a by-product of the gasification of coal at the Polk Power Station. The permittee shall only fire raw coal residual in the event of a gasification process malfunction at the Polk Power Station that results in raw coal residual that has some remaining fuel value. The permittee shall document all gasification process malfunctions and record the amount of raw coal residual, if any, fired at Big Bend Station. These records should be kept on site at Big Bend and made readily available to the Department and the EPCHC upon request.
 - (b) Supplemental Material Injection. For Units 3 and 4, ~~the~~ the following materials may be injected as needed for boiler conditioning and energy recovery purposes:
 - i. Magnesium Oxide, Limestone and Fluxing Agents may be injected as needed for boiler conditioning.
 - ii. Fly ash. Reinjection of on-site generated fly ash for energy recovery.
- c. *Daily Log.* 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.
- d. *Control Device Operation.* All air pollution control devices shall be in operation according to manufacturer's recommendations whenever the boilers are in operation. Note: under current permitted ductwork configuration, the air pollution control devices cannot be physically bypassed. In the event of a control device malfunction resulting in excess emissions beyond the allowable periods established for these units, the associated boiler shall be removed from service until such time that the control device resumes normal operation.

{Permitting Note: "Flame stabilization" is defined as the use of natural gas to stabilize a flame during times of unexpected poor coal quality or equipment failure such as coal piping pluggage. Flame stabilization due to poor coal quality occurs when coal is wet or does not provide the necessary heat to maintain a stable flame. In this situation, natural gas is combusted to provide the additional required heat input to maintain a stable flame. Flame stabilization due to equipment failure occurs when coal piping is plugged, or equipment is otherwise damaged, that results in an inconsistent amount of coal reaching the burners. Under certain conditions, this may result in the burners intermittently seeing large amounts of fuel at one time, causing a potentially explosive flame "puff". In this situation, natural gas must be used for stabilization to prevent flame "puffing" and ensure safe operation. Combustion of natural gas is also necessary during periods of load change to initialize and stabilize the flame until coal flow to the burners reaches steady state. As defined in 62-210.700(3), F.A.C., load change occurs when the operational capacity of a unit is in the 10% to 100% capacity range, other than startup or shutdown, which exceeds 10% of the unit's rated capacity and which occurs at a rate of 0.5% per minute or more.}

[Rule 62-213.410, F.A.C.; and, ~~Permit Nos. 0570039-066-AC & 0570039-109-AC~~ Application No. 0570039-120-AC]