



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

December 29, 2006

*Electronically Sent – Received Receipt Requested*

Ms. Karen Sheffield, General Manager  
Tampa Electric Company  
Big Bend Station  
Post Office Box 111  
Tampa, Florida 33601-0111

Re: DEP File No. 0570039-026-AC  
Final Air Construction Permit Modification -- Unit 4 SCR System

Dear Ms. Sheffield:

The Florida Department of Environmental Protection (“the Department”) has reviewed your application to make some minor modifications to Air Construction Permit No. 0570039-020-AC that authorized the installation of a selective catalytic reduction (SCR) system for nitrogen oxides (NO<sub>x</sub>) control on the facility’s Unit No. 4 coal-fired boiler.

This Air Construction Permit Modification (0570039-026-AC) revises the language of certain specific conditions of the previously issued permit. Specifically, this permit modification: (1) clarifies averaging time calculations for nitrogen oxides emissions; (2) defines abnormal events in reference to ammonia supply operations for the SCR system; and (3) discusses circumvention in reference to the SCR system operation.

There are no air pollution emissions increases associated with this permit modification. The current Air Construction Permit for Unit No. 4 has not yet expired. Therefore the changes requested are addressed as an Air Construction Permit Modification.

## MODIFICATIONS OF AIR CONSTRUCTION PERMIT NO. 0570039-020-AC

Certain specific conditions in Air Construction Permit No. 0570039-020-AC are hereby modified as shown below, and three new conditions are added as Specific Conditions **A.15.1.**, **A.15.2.** and **A.15.3.**

Double-underline denotes additions and ~~strikethrough~~ indicates deletions.

Specific Condition **A.14.** is modified as follows:

**A.14.** Circumvention. The owner or operator shall not circumvent the air pollution control equipment or ~~allow the emission of air pollutants without this equipment operating properly~~ nor operate the SCR equipment in such a manner which would violate allowable emission rates stated herein, notwithstanding the conditions provided in **A.15.1.**

[Rule 62-210.650, F.A.C.]

“More Protection, Less Process”

Printed on recycled paper.

New Specific Conditions A.15.1. through A.15.3. are added as follows:

**SCR OPERATION**

**A.15.1.** The permittee shall operate the SCR system in accordance with the SCR system supplier's recommendations, including operating the SCR between minimum and maximum operating temperatures.

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

**A.15.2.** The partial SCR maintenance bypass duct is normally closed except during maintenance periods.

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

**A.15.3.** Abnormal events: "Abnormal events" are defined as an unanticipated interruption, malfunction, or failure of the pipeline or associated equipment utilized to supply ammonia to the Big Bend Station for use in the operation of the selective catalytic reduction control system. Excess emissions occurring from operation of the boilers during an abnormal event are authorized provided that best operational practices are employed to minimize the amount and duration of the emissions during an abnormal event. Emissions data collected during "abnormal events" may be excluded from the 30-day rolling compliance averages in accordance with this condition.

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

Specific Condition A.16. is modified as follows:

**A.16.** After May 31, 2007, NO<sub>x</sub> emissions (reported as NO<sub>2</sub>) from Unit No. 4 when combusting solid fuel bituminous or anthracite coal, or a coal/petroleum coke blend, shall not exceed 0.10 lb NO<sub>x</sub>/million Btu heat input on a heat input weighted 30 boiler operating day rolling average basis. Based upon a heat input limit of 4330 million Btu/hour, NO<sub>x</sub> emissions shall not exceed 433 lb/hr. These emission limits are based on the definition of "emission rate" so that an equation is used that divides total pounds of NO<sub>x</sub> by total heat input in each 30-day period to reach a 30-day rolling average.

[Applicant Request; EPA Consent Decree (U.S. vs. TEC) dated February 29, 2000, amended October 4, 2000; and FDEP Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; and E-mail memorandum from EPA received on September 15, 2005.]

Specific Conditions A.18., A.19. and A.21. are modified as follows:

**A.18.** Nitrogen oxides emissions shall be continuously monitored to confirm compliance, using the Unit's existing continuous emissions monitoring system (CEMS). Compliance is determined by calculating the ~~arithmetic average~~ heat input weighted average of all hourly emission rates for NO<sub>x</sub> for the 30 successive boiler operating days, except for data obtained during startup, shutdown, or malfunction, or abnormal events.

[Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(g); 0570039-017-AV; and Rule 62-4.070(3), F.A.C.]

**A.19.** Compliance with the ammonia (NH<sub>3</sub>) slip limit shall be determined using EPA conditional test method (CTM-027), EPA method 320, or other methods approved by the Department.

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

Ms. Karen Sheffield  
December 29, 2006

A.21. Compliance with the ~~additional~~ heat input weighted 30-day rolling average NO<sub>x</sub> emission limit of 0.10 lb NO<sub>x</sub>/mmBtu shall be demonstrated using CEMS data beginning July 1, 2007, (or 30 boiler operating days after June 1, 2007), and every 30 ~~calendar~~ boiler operating days thereafter.

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

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. Any party to this permitting decision (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 thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



Joseph Kahn, Director  
Division of Air Resource Management

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT MODIFICATION was sent electronically (with Received Receipt) before the close of business on 12/29/06 to the person(s) listed below:

Karen Sheffield, General Manager, TEC: [kasheffield@tecoenergy.com](mailto:kasheffield@tecoenergy.com)

Byron Burrows, TEC: [btburrows@tecoenergy.com](mailto:btburrows@tecoenergy.com)

Tom Davis, ECT: [tdavis@ectinc.com](mailto:tdavis@ectinc.com)

Mara Nasca, FDEP-SWD: [mara.nasca@dep.state.fl.us](mailto:mara.nasca@dep.state.fl.us)

Diana Lee, HCEPC: [Lee@epchc.org](mailto:Lee@epchc.org)

James Little, EPA Region 4: [little.james@epa.gov](mailto:little.james@epa.gov)

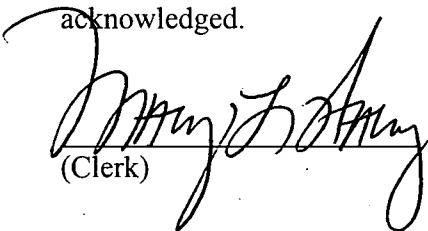
Clerk Stamp


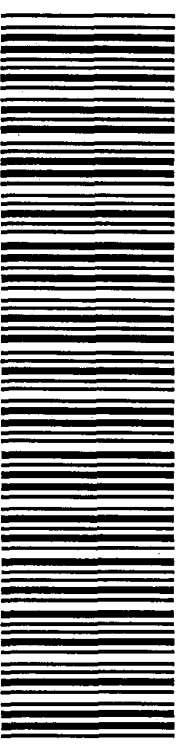
**FILED AND ACKNOWLEDGMENT**

**FILED**, on this date, pursuant to §120.52,

Florida Statutes, with the designated

Department Clerk, receipt of which is hereby  
acknowledged.

  
(Clerk) 12/29/06  
(Date)

		NAS	Pieces: <b>1/1</b>
FM: DEP AIR RESOURCE MGMT P. Adams DIRECTOR OFFICE STE 23 111 S MAGNOLIA DR TALLAHASSEE, FL 32301 UNITED STATES Phone: 850-921-9505		ORIGIN: <b>TLH</b> Sender's ref: 37550201000 A7 AP255	
To: DEP SOUTHEAST DISTRICT DARREL GRAZIANI 400 NORTH CONGRESS AVENUE WEST PALM BEACH, FL 33416 UNITED STATES		POSTCODE: <b>33416</b> TEL: 561-681-6621	
Description: Indiantown AC application		Weight: Letter Date: 2007-04-11	
DHL standard terms and conditions apply.			
		<b>PRIY 9S</b> <b>FSC</b>	
(2L)US33416			
			
WAYBILL: 21012748551 (Non-Negotiable)			



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**SENDER'S RECEIPT**

Waybill #: 21012748551

To(Company):  
 DEP Southeast District

400 North Congress Avenue

West Palm Beach, FL 33416  
 UNITED STATES

Attention To: Darrel Graziani  
 Phone#: 561-681-6621

Sent By: P. Adams  
 Phone#: 850-921-9505

Rate Estimate: 4.96  
 Protection: Not Required  
 Description: Indiantown AC application

Weight (lbs.): Letter  
 Dimensions: 0 x 0 x 0

Ship Ref: 37550201000 A7 AP255  
 Service Level: Next Day 3:00 (Next  
 business day by 3 PM)


Special Svc:

Date Printed: 4/10/2007  
 Bill Shipment To: Sender  
 Bill To Acct: 778941286

DHL Signature (optional) \_\_\_\_\_ Route \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

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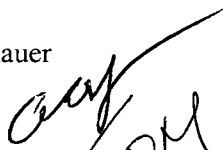

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## MEMORANDUM

To: Trina Vielhauer  
Through: Al Linero   
From: Tom Cascio   
Date: November 14, 2006  
Subject: Draft Air Construction Permit No. **0570039-026-AC**  
**Big Bend Station Unit 4**

This Draft Air Construction Permit (0570039-026-AC) revises the language of certain specific conditions of 0570039-020-AC (authorized the SCR system for Unit 4). Specifically, this permit modification:

- Clarifies averaging time calculations for nitrogen oxides emissions.
- Defines abnormal events in reference to ammonia supply operations for the SCR system.
- Discusses circumvention in reference to the SCR system operation.

This revision brings the SCR AC permit for Unit 4 (done first) "in-line" with the language of the corresponding AC permits for Units 1, 2, and 3 (done later).

I recommend your signature and forwarding to Patty for clerking.

In the Matter of an  
Application for Permit by:

Ms. Karen Sheffield, General Manager  
Big Bend Station  
Tampa Electric Company  
P.O. Box 111  
Tampa, FL 33601-0111

DEP File No. 0570039-026-AC  
Air Construction Permit Modification  
NO<sub>x</sub> Reduction System (SCR)  
Steam Generator Unit 4  
Hillsborough County

### **INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION**

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit modification (copy of draft permit modification attached) for the project, detailed in the application specified above, for the reasons stated below.

The applicant, Tampa Electric Company (TEC), operates the Big Bend Station located at Big Bend Road, North Ruskin, Hillsborough County. TEC currently holds an air construction permit to install a selective catalytic reduction (SCR) system for nitrogen oxides (NO<sub>x</sub>) control on the facility's Unit No. 4 coal-fired boiler. This Air Construction Permit Modification (0570039-026-AC) revises the language of certain specific conditions of the previously issued permit. Specifically, this permit modification: (1) clarifies averaging time calculations for nitrogen oxides emissions; (2) defines abnormal events in reference to ammonia supply operations for the SCR system; and (3) discusses circumvention in reference to the SCR system operation. There are no air pollution emissions increases associated with this permit modification.

The Department has permitting jurisdiction under the provisions of Chapter 403.087, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210 and 62-213. This action is not exempt from permitting procedures. The Department has determined that an air construction permit modification is required.

The Department intends to issue this air construction permit modification based on the belief that reasonable assurances have been provided to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1., F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit Modification. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) & (11), F.A.C.

The Department will issue the final construction permit modification unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen (14) days from the date of publication of Public Notice. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the construction permit modification with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

**PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT MODIFICATION**

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP File No. 0570039-026-AC

Tampa Electric Company  
Big Bend Station, Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit modification to Tampa Electric Company (TEC) for the Big Bend Station located at Big Bend Road, North Ruskin, Hillsborough County. The applicant's mailing address is: Tampa Electric Company, P.O. Box 111, Tampa, Florida 33601-0111.

TEC currently holds an air construction permit to install a selective catalytic reduction (SCR) system for nitrogen oxides (NO<sub>x</sub>) control on the facility's Unit No. 4 coal-fired boiler. This Draft Air Construction Permit Modification (0570039-026-AC) revises the language of certain specific conditions of the previously issued permit. Specifically, this permit modification: (1) clarifies averaging time calculations for nitrogen oxides emissions; (2) defines abnormal events in reference to ammonia supply operations for the SCR system; and (3) discusses circumvention in reference to the SCR system operation. There are no air pollution emissions increases associated with this permit modification. A Best Available Control Technology (BACT) determination was not required pursuant to Rules 62-212.400, F.A.C. and 40 CFR 52.21, Prevention of Significant Deterioration (PSD).

The Department will issue the Final Air Construction Permit Modification unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed construction permit issuance action for a period of fourteen (14) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit Modification. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any



subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by rule 28-106.301.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Protection Bureau of Air Regulation Suite 4, 111 S. Magnolia Drive Tallahassee, Florida, 32301 Telephone: 850/488-0114 Fax: 850/922-6979	Dept. of Environmental Protection Southwest District 13051 N Telecom Parkway Temple Terrace, FL 33637-0926 Telephone: 813/ 632-7600 Fax: 813/ 632-7665	Hillsborough County Environmental Protection Commission Air Management Division 3629 Queen Palm Drive Tampa, Florida 33619 Telephone: 813/627-2600
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The complete project file includes the permit application, draft air construction permit modification, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Department's reviewing engineer for this project, Tom Cascio at MS 5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, or [Tom.Cascio@dep.state.fl.us](mailto:Tom.Cascio@dep.state.fl.us), or call 850/921-9526 for additional information. Key documents may also be viewed at: [www.dep.state.fl.us/Air/permitting/construction.htm](http://www.dep.state.fl.us/Air/permitting/construction.htm) and clicking on TECO Big Bend Unit 4 – SCR in the power plant category.



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

November 22, 2006

*Electronically Sent – Received Receipt Requested*

Ms. Karen Sheffield, General Manager  
Big Bend Station  
Post Office Box 111  
Tampa, Florida 33601-0111

Re: DEP File No. 0570039-026-AC  
Air Construction Permit Modification -- Unit 4 SCR System

Dear Ms. Sheffield:

The Florida Department of Environmental Protection (“the Department”) has reviewed your application to make some minor modifications to Air Construction Permit No. 0570039-020-AC that authorized the installation of a selective catalytic reduction (SCR) system for nitrogen oxides (NO<sub>x</sub>) control on the facility’s Unit No. 4 coal-fired boiler. This Air Construction Permit Modification (0570039-026-AC) revises the language of certain specific conditions of the previously issued permit. Specifically, this permit modification: (1) clarifies averaging time calculations for nitrogen oxides emissions; (2) defines abnormal events in reference to ammonia supply operations for the SCR system; and (3) discusses circumvention in reference to the SCR system operation. There are no air pollution emissions increases associated with this permit modification. The current Air Construction Permit for Unit No. 4 has not yet expired. Therefore the changes requested will be addressed as an Air Construction Permit Modification.

## MODIFICATIONS OF AIR CONSTRUCTION PERMIT NO. 0570039-020-AC

Certain specific conditions in Air Construction Permit No. 0570039-020-AC are hereby modified as shown below, and three new conditions are added as Specific Conditions **A.15.1.**, **A.15.2.**, and **A.15.3.**

Double-underline denotes additions and ~~strikethrough~~ indicates deletions.

Specific Condition **A.14.** is modified as follows:

**A.14.** Circumvention. The owner or operator shall not circumvent the air pollution control equipment or ~~allow the emission of air pollutants without this equipment operating properly~~ nor operate the SCR equipment in such a manner which would violate allowable emission rates stated herein, notwithstanding the conditions provided in A.15.1.

[Rule 62-210.650, F.A.C.]

New Specific Conditions **A.15.1.** through **A.15.3.** are added as follows:

### SCR OPERATION

**A.15.1.** The permittee shall operate the SCR system in accordance with the SCR system supplier’s recommendations, including operating the SCR between minimum and maximum operating temperatures.

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

“More Protection, Less Process”

Printed on recycled paper.

A.15.2. The partial SCR maintenance bypass duct is normally closed except during maintenance periods. [Rule 62-4.070(3), F.A.C.]

A.15.3. Abnormal events: "Abnormal events" are defined as an unanticipated interruption, malfunction, or failure of the pipeline or associated equipment utilized to supply ammonia to the Big Bend Station for use in the operation of the selective catalytic reduction control system. Excess emissions occurring from operation of the boilers during an abnormal event are authorized provided that best operational practices are employed to minimize the amount and duration of the emissions during an abnormal event. Emissions data collected during "abnormal events" may be excluded from the 30-day rolling compliance averages in accordance with this condition. [Rule 62-4.070(3), F.A.C.]

Specific Condition A.16. is modified as follows:

A.16. After May 31, 2007, NO<sub>x</sub> emissions (reported as NO<sub>2</sub>) from Unit No. 4 when combusting ~~solid fuel bituminous or anthracite coal, or a coal/petroleum coke blend,~~ shall not exceed 0.10 lb NO<sub>x</sub>/million Btu heat input on a heat input weighted 30 boiler operating day rolling average basis. Based upon a heat input limit of 4330 million Btu/hour, NO<sub>x</sub> emissions shall not exceed 433 lb/hr. These emission limits are based on the definition of "emission rate" so that an equation is used that divides total pounds of NO<sub>x</sub> by total heat input in each 30-day period to reach a 30-day rolling average. [Applicant Request; EPA Consent Decree (U.S. vs. TEC) dated February 29, 2000, amended October 4, 2000; and FDEP Consent Final Judgment (DEP vs. TEC) dated December 6, 1999; and E-mail memorandum from EPA received on September 15, 2005.]

Specific Conditions A.18., A.19., and A.21., are modified as follows:

A.18. Nitrogen oxides emissions shall be continuously monitored to confirm compliance, using the Unit's existing continuous emissions monitoring system (CEMS). Compliance is determined by calculating the ~~arithmetic average~~ heat input weighted average of all hourly emission rates for NO<sub>x</sub> for the 30 successive boiler operating days, except for data obtained during startup, shutdown, or malfunction, or abnormal events. [Rule 62-204.800(7)(b)2., F.A.C.; 40 CFR 60.46a(g); 0570039-017-AV; and Rule 62-4.070(3), F.A.C.]

A.19. Compliance with the ammonia (NH<sub>3</sub>) slip limit shall be determined using EPA conditional test method ~~(CTM-027), EPA method 320,~~ or other methods approved by the Department. [Rule 62-4.070(3), F.A.C.]

A.21. Compliance with the ~~additional~~ heat input weighted 30-day rolling average NO<sub>x</sub> emission limit of 0.10 lb NO<sub>x</sub>/mmBtu shall be demonstrated using CEMS data beginning July 1, 2007, (or 30 boiler operating days after June 1, 2007), and every 30 ~~calendar or boiler~~ boiler operating days thereafter. [Rule 62-4.070(3), F.A.C.]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. Any party to this permitting decision (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 thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Joseph Kahn, Director  
Division of Air Resource Management

**CERTIFICATE OF SERVICE**

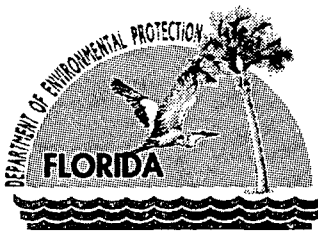
The undersigned duly designated deputy agency clerk hereby certifies that this PERMIT MODIFICATION was sent electronically (with Received Receipt) before the close of business on \_\_\_\_\_ to the person(s) listed below:

Karen Sheffield, General Manager, TEC (kasheffield@tecoenergy.com)  
Bryon Burrows, TEC (btburrows@tecoenergy.com)  
Tom Davis, ETC (tdavis@ectinc.com)  
Mara Nasca, FDEP-SWD (mara.nasca@dep.state.fl.us)  
Diana Lee, HCEPC (Lee@epchc.org)  
Gracy Danois, EPA Region 4 (danois.gracy@epa.gov)

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

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Date)



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

November 22, 2006

Electronic Mail – Received Receipt Requested

Ms. Karen Sheffield, General Manager  
Big Bend Station  
Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111

Re: Big Bend Unit 4  
DEP File No. 0570039-026-AC  
Modification to Selective Catalytic Reduction System Permit

Dear Ms. Sheffield:

Enclosed are documents indicating the Department's intent to issue an air construction permit to modify certain specific conditions of the previously issued air construction permit (0570039-020-AC) for the installation of a selective catalytic reduction system on Unit 4 at the Big Bend Station in Tampa. The documents include: the "Intent to Issue Air Construction Permit Modification"; the "Public Notice of Intent to Issue Air Construction Permit Modification"; and the "Draft Permit Modification."

The Public Notice must be published one time only as soon as possible in a newspaper of general circulation in the area affected, pursuant to Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven (7) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

Please submit any other written comments you wish to have considered concerning the Department's proposed action to Mr. A. A. Linero, Program Administrator, South Permitting Section at the above letterhead address. If you have any questions, please call Tom Cascio at 850/921-9526.

Sincerely,

A handwritten signature in black ink, appearing to read "Trina L. Vielhauer".

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

TLV/aal/tbc

Enclosures

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

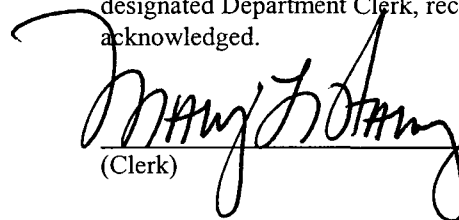
**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this Draft Air Construction Permit Modification, Intent to Issue an Air Construction Permit Modification, and Public Notice of Intent to Issue an Air Construction Permit Modification, and all copies were sent electronically (with Received Receipt) before the close of business on 11/22/06 to the person(s) listed below.

Karen Sheffield, General Manager, TEC (kasheffield@tecoenergy.com)  
Bryon Burrows, TEC (btburrows@tecoenergy.com)  
Tom Davis, ETC (tdavis@ectinc.com)  
Mara Nasca, FDEP-SWD (mara.nasca@dep.state.fl.us)  
Diana Lee, HCEPC (Lee@epchc.org)  
Gracy Danois, EPA Region 4 (danois.gracy@epa.gov)

Clerk Stamp

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



(Clerk)

11/22/06  
(Date)

**Adams, Patty**

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**From:** Harvey, Mary  
**Sent:** Wednesday, November 22, 2006 1:41 PM  
**To:** Cascio, Tom; Adams, Patty  
**Subject:** FW: Tampa Electric Company #0570039-026

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**From:** Nasca, Mara  
**Sent:** Wednesday, November 22, 2006 1:41 PM  
**To:** Harvey, Mary  
**Cc:** Zhang-Torres  
**Subject:** RE: Tampa Electric Company #0570039-026

Thanks Mary....Have a good Thanksgiving

---

**From:** Harvey, Mary  
**Sent:** Wednesday, November 22, 2006 12:46 PM  
**To:** 'kashffield@tecoenergy.com'; 'BTBURROWS@TECOENERGY.COM'; 'TDAVIS@ECTINC.COM'; Nasca, Mara; 'Lee@epchc.orh'; 'danois.gracy@epa.gov'  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** Tampa Electric Company #0570039-026

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: <http://www.adobe.com/products/acrobat/readstep.html>.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

11/27/2006

## Adams, Patty

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**From:** Harvey, Mary  
**Sent:** Wednesday, November 22, 2006 1:32 PM  
**To:** Adams, Patty; Cascio, Tom  
**Subject:** FW: Tampa Electric Company #0570039-026

---

**From:** Nasca, Mara  
**Sent:** Wednesday, November 22, 2006 1:29 PM  
**To:** Harvey, Mary  
**Subject:** Read: Tampa Electric Company #0570039-026

Your message

**To:** 'kashffield@tecoenergy.com'; 'BTBURROWS@TECOENERGY.COM'; 'TDAVIS@ECTINC.COM'; Nasca, Mara; 'Lee@epchc.orh'; 'danois.gracy@epa.gov'  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** Tampa Electric Company #0570039-026  
**Sent:** 11/22/2006 12:46 PM

was read on 11/22/2006 1:29 PM.



Adams, Patty

**From:** Harvey, Mary  
**Sent:** Wednesday, November 22, 2006 12:55 PM  
**To:** Cascio, Tom; Adams, Patty  
**Subject:** FW: Tampa Electric Company #0570039-026

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**From:** Tom Davis [mailto:tdavis@ectinc.com]  
**Sent:** Wednesday, November 22, 2006 12:54 PM  
**To:** Harvey, Mary  
**Subject:** RE: Tampa Electric Company #0570039-026

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**From:** Harvey, Mary [mailto:Mary.Harvey@dep.state.fl.us]  
**Sent:** Wednesday, November 22, 2006 12:46 PM  
**To:** kasheffield@tecoenergy.com; BTBURROWS@TECOENERGY.COM; TDAVIS@ECTINC.COM; Nasca, Mara; Lee@epchc.orh; danois.gracy@epa.gov  
**Cc:** Cascio, Tom; Adams, Patty; Gibson, Victoria  
**Subject:** Tampa Electric Company #0570039-026

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

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The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

11/27/2006