



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_x) 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”

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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_x emissions (reported as NO₂) 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_x/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_x 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_x 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_x 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 (NH₃) 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.]

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A.21. Compliance with the ~~additional~~ heat input weighted 30-day rolling average NO_x emission limit of 0.10 lb NO_x/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.



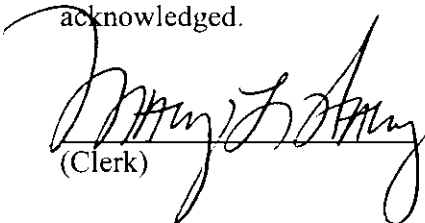
Joseph Kahn, Director
Division of Air Resource Management




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
Byron Burrows, TEC: btburrows@tecoenergy.com
Tom Davis, ECT: tdavis@ectinc.com
Mara Nasca, FDEP-SWD: mara.nasca@dep.state.fl.us
Diana Lee, HCEPC: Lee@epchc.org
James Little, EPA Region 4: little.james@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) 12/29/06 (Date)

	NAS	Pieces: 1/1
		ORIGIN: TLH
FM: DEP AIR RESOURCE MGMT P. Adams DIRECTOR OFFICE STE 23 111 S MAGNOLIA DR TALLAHASSEE, FL 32301 UNITED STATES Phone: 850-921-9505	To: DEP SOUTHEAST DISTRICT DARREL GRAZIANI 400 NORTH CONGRESS AVENUE WEST PALM BEACH, FL 33416 UNITED STATES	Sender's ref: 37550201000 A7 AP255 POSTCODE: 33416 TEL: 561-681-6621
Description: Indiantown AC application	Weight: Letter Date: 2007-04-11	DHL standard terms and conditions apply.
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Attention To: Darrel Graziani Phone#: 561-681-6621	Ship Ref: 37550201000 A7 AP255 Service Level: Next Day 3:00 (Next business day by 3 PM)
Sent By: P. Adams Phone#: 850-921-9505	Special Svc: Date Printed: 4/10/2007 Bill Shipment To: Sender Bill To Acct: 778941286

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