

Memorandum

**Florida Department of
Environmental Protection**

TO: Trina L. Vielhauer

THRU: A. A. Linero, P.E. *AAL*

FROM: Scott M. Sheplak, P.E. *SMS*

DATE: + TERESA HERON
November 28, 2005

SUBJECT: Tampa Electric Company
Big Bend Station
Off-site Transloading Operation
0570039-018-AC

Attached for approval and signature is a minor air construction permit to allow the transloading of coal, petcoke and slag to off-site facilities.

This facility is a major PSD source. The proposed project is not subject to PSD for emissions of PM/PM₁₀ because the significant emission rates were not exceeded. PM/PM₁₀ emissions are estimated to be 7/2 TPY. The significant emission rate for PM/PM₁₀ is 25/15 TPY.

We recommend your approval and signature.

Attachments

AAL/SMS/TH



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

November 29, 2005

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

Re: Air Construction Permit 0570039-018-AC
Tampa Electric Company – Big Bend Station
Off-site Transloading Operations of Coal, Petcoke and Slag

Dear Ms. Sheffield:

On December 6, 2004, you submitted an application for a Title V air operation permit revision and an application for an air construction permit. The requests were specifically to clarify Title V permit language and to remove the CO limit in both permits, and it also included the construction/modification of the solid fuel yard to accommodate the off-site transloading of coal, petcoke and slag. On July 11 (via e-mail) you requested to drop the request for removal of the CO limit and on September 2, 2005 you withdrew the Title V application request and separated both projects. Enclosed are the following documents: "Technical Evaluation and Preliminary Determination", "DRAFT Air Construction Permit", "Written Notice of Intent to Issue Air Construction Permit", and "Public Notice of Intent to Issue Air Construction Permit". This facility is located at Big Bend Road, North Ruskin.

The "Technical Evaluation and Preliminary Determination" summarizes the Permitting Authority's technical review of the application and provides the rationale for making the preliminary determination to issue the DRAFT air construction permit. The "DRAFT Air Construction Permit" includes specific conditions that regulate the emissions units at this facility. The "Written Notice of Intent to Issue Air Construction Permit" provides important information regarding: the Permitting Authority's intent to issue the DRAFT Permit; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue the DRAFT Permit; the procedures for submitting comments on the DRAFT Permit; the requirements for filing a petition for an administrative hearing; and the availability of mediation. The "Public Notice of Intent to Issue Air Construction Permit" is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project.

An electronic version of the DRAFT Permit has been posted on the Division of Air Resource Management's world wide web site. The web site address is: <http://www.dep.state.fl.us/air/eproducts/ards/default.asp>

Please submit any written comments you wish to have considered concerning the permitting authority's proposed action to the Program Administrator, Permitting South Section, at the above letterhead address. If you have any other questions, please contact Teresa Heron, at 850/921-9529.

Sincerely,

Trina L. Vielhauer, Chief
Bureau of Air Regulation

Enclosures

"More Protection, Less Process"

Printed on recycled paper.

WRITTEN NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT 0570039-018-AC

*In the Matter of an
Application for Air Construction Permit by:*

Ms. Karen Sheffield, General Manger
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DRAFT Air Permit No.:
0570039-018-AC Big Bend Station
Off-site Transloading Project
Hillsborough County, Florida

Facility Location: The applicant operates a nominal 1998 MW Electric Utility which is located at Big Bend Road in Hillsborough County, Florida.

Project: On December 6, 2004 (completed on September 2, 2005), the applicant applied to the Permitting Authority for an application for an air construction permit to allow the off-site transloading of coal, petcoke and slag. Details of the project are provided in the application and the "Technical Evaluation and Preliminary Determination" available at the offices listed below.

Permitting Authority: The application for an air construction permit is subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-213 and 62-214, Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and air permits are required to operate the facility and to renew and make revisions to the current permit. The FDEP Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination regarding this project. The Permitting Authority's physical address is: FDEP Bureau of Air Regulation at 111 S. Magnolia, Suite 4, Tallahassee, FL 32301. The Permitting Authority's mailing address is: FDEP Bureau of Air Regulation, MS 5505, 2600 Blair Stone Road, Tallahassee, FL 32399-2400. The Permitting Authority's telephone number is 850/488-0114 and facsimile 850/921-9533.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at the address indicated above for the Permitting Authority. The complete project file includes the Technical Evaluation and Preliminary Determination, the DRAFT Permit, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the DRAFT Permits and file electronic comments by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/ards/>. A copy of the complete project file is also available at the following offices:

FDEP Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.
(Telephone 813-744-6100)

Environmental Protection Commission of Hillsborough County, 3629 Queen Palm Dr, Tampa, FL 33619-1309
(Telephone: 813/627-2600)

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a FINAL Air Construction Permit, in accordance with the conditions of the DRAFT Permits unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, 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" (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet 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 Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within seven (7) days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permits pursuant to Rule 62-110.106(11), F.A.C.

Comments: The permitting authority will accept written comments concerning the proposed Air Construction Permit issuance action for a period of 14 (fourteen) days from the date of publication of the "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT".

WRITTEN NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT 0570039-018-AC

Written comments should be provided to the permitting authority office. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft Air Construction Permit, the permitting authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this Written Notice of Intent to Issue Title V Air Operation Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of the attached Public Notice or within fourteen (14) days of receipt of this Written Notice of Intent to Issue Air Construction Permit and Title V Air Operation Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) 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, F.A.C.

A petition that disputes the material facts on which the Permitting Authority'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 each 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 state; (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 the 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 Permitting Authority'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, F.A.C.

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

Mediation: Mediation is not available in this proceeding.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

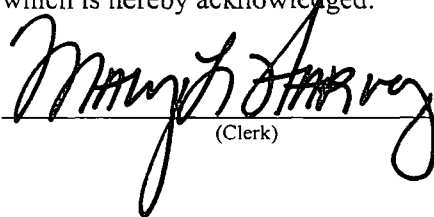
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this "Written Notice of Intent to Issue Air Construction Permit" package (including the Public Notice, the Technical Evaluation and Preliminary Determination and the Draft Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail or electronic mail before the close of business on 12/1/05 to the persons listed below.

Ms. Karen Sheffield, TEC*
Mr. Byron Burrows, TEC
Mr. Thomas Davis, P.E., ECT
Mr. Jason Waters, FDEP-SWD
Ms. Alice Harman, EPCHC
EPA Region 4

Clerk Stamp

FILED 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.



(Clerk)

12/1/05

(Date)

Florida Department of Environmental Protection
DRAFT Air Construction Permit No. 0570039-018-AC
Transloading of Coal, Petcoke and Slag to off-site Facilities
Tampa Electric Company – Big Bend Station
Hillsborough County

Applicant: The applicant for this project is Tampa Electric Company, Big Bend Station, P.O. Box 111, Tampa, FL 33601-0111. The applicant's responsible official is Ms. Karen Sheffield, General Manager.

Facility Location: The applicant operates a nominal 1998 MW Electric Utility which is located at Big Bend Road in Hillsborough County, Florida.

Project: On December 6, 2004 (completed on September 2, 2005), the applicant applied to the Permitting Authority for an application for an air construction permit to allow the off-site transloading of coal, petcoke and slag. Details of the project are provided in the application and the "Technical Evaluation and Preliminary Determination" available at the offices listed below.

Permitting Authority: The application for an air construction permit is subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, and 62-213 and 62-214, Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and air permits are required to operate the facility and to renew and make revisions to the current permit. The FDEP Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination regarding this project. The Permitting Authority's physical address is: FDEP Bureau of Air Regulation at 111 S. Magnolia, Suite 4, Tallahassee, FL 32301. The Permitting Authority's mailing address is: FDEP Bureau of Air Regulation, MS 5505, 2600 Blair Stone Road, Tallahassee, FL 32399-2400. The Permitting Authority's telephone number is 850/488-0114 and facsimile 850/921-9533.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the the Technical Evaluation and Preliminary Determination DRAFT Permit, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may view the DRAFT Permits and file electronic comments by visiting the following website: <http://www.dep.state.fl.us/air/eproducts/ards/>. A copy of the complete project file is also available at the following offices:

FDEP Southwest District Office, 3804 Coconut Palm Drive, Tampa, Florida 33619-8318.
(Telephone 813-744-6100)

Environmental Protection Commission of Hillsborough County, 3629 Queen Palm Dr, Tampa, FL 33619-1309 (Telephone: 813/627-2600)

Notice of Intent to Issue A Permit: The Permitting Authority gives notice of its intent to issue an air construction permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the facility will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C. The Permitting Authority will issue a FINAL Air Construction Permit in accordance with the conditions of the DRAFT Permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

Comments: The permitting authority will accept written comments concerning the proposed Draft Air Construction Permit issuance action for a period of 14 (fourteen) days from the date of publication of this Notice. Written comments should be provided to the Permitting Authority at the above address. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft Air Construction Permit, the permitting authority shall revise

(Public Notice to be Published in the Newspaper)

the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within fourteen (14) days of publication of this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within fourteen (14) 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, F.A.C.

A petition that disputes the material facts on which the Permitting Authority'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 rights will be affected by the agency determination; (c) A statement of how and when the 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 state; (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 the 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 Permitting Authority'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, F.A.C.

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

Mediation: Mediation is not available for this proceeding.

TECHNICAL EVALUATION
AND
PRELIMINARY DETERMINATION

Tampa Electric Company

Big Bend Station
Off-site Transloading of Coal, Petcoke and Slag Project
Solid Fuel Yard Emissions Unit No. 010
Tampa, Hillsborough County

DEP File No. 0570039-018-AC

Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation

November 29, 2005

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. APPLICATION INFORMATION

1.1 Applicant Name and Address

Tampa Electric Company (TEC)
Big Bend Station - Electric Generating Facility
Apollo Beach Road
Tampa, Hillsborough County, Florida 33572

Authorized Representative: Karen Sheffield, General Manager

1.2 Reviewing and Process Schedule

12-06-04: Date of Receipt of Application (waiver of the air construction permit processing time)
01-20-05: DEP Incompleteness Letter for both Title V and Air Construction Permit requests
04-19-05: Received TEC request to extend the response deadline to May 31, 2005
05-31-05: Received TEC Response to Incompleteness Letter
06-28-05: DEP e-mail confirming telephone conversation of 6/27/05
07-01-05: DEP Application Status Letter
07-11-05: TEC e-mail requesting to separate the Title V project (removal of the CO limit)
09-02-05: TEC e-mail and letter requesting to withdraw Title V Application revision
09-02-05: Air Construction application complete
Intent Issued

2. FACILITY INFORMATION

2.1 Facility Location

The Big Bend Station Power Plant is located at Big Bend Road, North Ruskin, Hillsborough County. This site is approximately 75 kilometers from the Chassahowitzka National Wilderness Area, a Class I PSD Area. The UTM coordinates of this facility are Zone 17; 361.9 km E; 3075.0 km N.

2.2 Standard Industrial Classification Codes (SIC)

Industry Group No.	49	Electric, Gas, and Sanitary Services
Industry No.	4911	Electric Services

2.3 Facility Category

The TEC facility is a nominal 1998 MW (megawatts) electric generation facility. This facility consists of four steam boilers (Units Nos. 1 through 4); four steam turbines; three simple-cycle combustion turbines (CT Nos. 1, 2, and 3); solids fuels, fly ash limestone, gypsum; slag, and bottom ash storage and handling facilities, and fuel oil storage tanks.

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 TPY.

This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a major facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD). Per Table 62-212.400-2, the proposed modification (off-site transloading of coal, petcoke and slag) at this facility does not result in emissions increases above the PSD level of 25/15 TPY of PM/PM₁₀.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

This facility (4 steam boilers) is also subject to the provisions of Title IV, Acid Rain, Clean Air Act as amended in 1990.

3. TRANSLOADING PROJECT DESCRIPTION

Coal, petcoke, or slag will be brought in by barge at infrequent intervals and transferred to Transfer Station T2 using existing conveyors. From Station T2, the transloaded materials will be transferred to storage piles located in the west fuel yard using existing conveyors CB-Y and CB-Z. The coal, petcoke, and slag will then be loaded into truck using front-end loaders for off-site shipment.

The only new additional emissions points associated with this operation are: (a) the transfer of coal, petcoke from a storage pile by front-end loaders to trucks and (b) coal, petcoke, or slag truck travel on Big Bend paved and unpaved roads. All other coal, petcoke or slag handling activities will use existing equipment (e.g., conveyor belts, storage pile stackout, and dozer operations in storage piles). The coal or petcoke will be treated with a chemical surfactant prior to arriving at the Big Bend Station, the slag has minimal dust potential based on its glassine properties and therefore does not need to be treated with a chemical surfactant.

This project modification comprises the emissions points PET-01; COAL-01; and SLAG-01. Refer to Attachment B Process Flow Diagram (Application submitted on December 6, 2004). The estimated total particulate matter emissions as a result of this modification do not exceed approximately 7/2 PM/PM₁₀ TPY. Attachment A (Application submitted on December 6, 2004), shows the facility plot plan showing the onsite travel path, a total of 2.6 paved miles and 300 unpaved feet for one round trip of the transloading trucks.

3.1. Emissions Unit

This permit addresses the new emissions points described below at the Solid Fuel Yard Facility:

EMISSIONS UNIT NO.	SYSTEM	DESCRIPTION*
ARMS E. U No. 010; 029; 030; and 031 Solid Fuel Yard Facility	Fuel Handling and Storage System	Emissions Points FH-001 through FH-073 Fugitives Emissions

New emissions points as a result of this project (part of the Solid Fuel Yard Facility's fugitives emissions points) are: Transloading of petcoke [PET-01]; coal [COAL-01]; slag [SLAG-01]; and truck traffic [PET-01/COAL-01/SLAG-01]:

<u>Source Designator</u>	<u>PM/PM₁₀ Control Method</u>	<u>Efficiency Rating</u>	<u>Transfer Rates</u>	<u>Emission Point</u>
Front-End Reclaim from Petcoke Storage Pile to Trucks	Moist Material & Chemical Surfactants	90%	150,000 TPY	<u>PET-01</u>
Front-End Reclaim from Coal Storage Pile to Trucks	Moist Material & Chemical Surfactants	90%	150,000 TPY	<u>COAL-01</u>
Front-End Reclaim from Slag Storage Pile to Trucks	Moist Material	90%	150,000 TPY	<u>SLAG-01</u>
<u>Source Designator</u>	<u>PM/PM₁₀ Control Method</u>	<u>Efficiency Rating</u>	<u>Vehicle Miles</u>	<u>Emission Point</u>
Truck Traffic (Paved Roads)	Watering as necessary	90%	15,000 VMT/yr	Pet/Coal/Slag 02a / 2b
Truck Traffic (unpaved Roads)	Watering as necessary	90%	328 VMT/yr	Pet/Coal/Slag 03a / 3b

Source: TEC, Transloading Project Modification response dated May 31, 2005.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Existing emissions points associated with the proposed off-site transloading of petcoke/coal/slag:

<u>Source Designator</u>	<u>PM Control Method</u>	<u>Efficiency Rating</u>	<u>Design Capacity Transfer Rates</u>	<u>Emission Point</u>
Barge Clamshell to Conveyor D 1	Moist Material	25%	150,000 TPH	FH-001
Barge Bucket Elevator to Conveyor A 1	Moist Material	25%	150,000 TPH	FH-002
Conveyor A 1 to Conveyor B 1	Moist Material	85%	150,000 TPH	FH-003
Conveyor B 1 to Conveyor D 1	Moist Material	85%	150,000 TPH	FH-004
Self Unloading Barge to Conveyor D 1	Moist Material	25%	150,000 TPH	FH-005
Conveyor D 1 to Conveyor E 1	Moist Material	85%	150,000 TPH	FH-006
Conveyor E 1 to Conveyor Y	Moist Material	85%	150,000 TPH	FH-007
Conveyor Y to Conveyor Z	Moist Material	0%	150,000 TPH	FH-008a
Conveyor Z to Petcoke Storage Pile	Moist Material	0%	150,000 TPH	FH-008b

4. SOLID FUEL YARD FACILITY DESCRIPTION

Solid fuel is unloaded from ship/barge into the Solid fuel yard, the blending bins or go directly to the tripper room via belt conveyors. Solid fuel from the piles is loaded onto belt conveyors using a rail mounted or mobile reclaimer. The solid fuel is then belt conveyed to the blending bins, which consists of six storage bins, where the solid fuel may be blended for use at the plant, or transloaded into trucks for shipment off site. Particulate matter (PM) emissions from the conveyors in the blending bins are controlled by 4 rotoclones, one at the conveyor drop, and one for every 2 bins. Blending bins can either feed the transloader, or solid fuel can be conveyed, via 2 parallel belts (T1, T2) to 2 crushers (each belt has a crusher), or diverted directly to the tripper room. PM emissions from the 2 crushers and transfer tower are controlled by 2 rotoclones. Coal residual from Polk Power Station is received by truck and placed in a building, where it is conveyed to the unit tripper room.

In the tripper room, 2 trippers bunker the solid fuels into 4 solid fuel bunkers. Each unit has its own respective bunker. From the bunkers, the solid fuel is gravity fed into 14 mills, and then fed into the boilers. There are 3 ball mills, each for Unit Nos. 1 - 3, and 5 bowl mills for Unit No. 4. From the mills, the solid fuel is pneumatically transported into classifiers, two for each mill on Unit Nos. 1-3 and one for each mill on Unit No. 4 for a total of 23 classifiers. The fuel is then transported into the respective boilers.

Fugitive emissions sources located at the Big Bend Station consist of activities associated with the storage and handling of the solid fuels.

Emissions information submitted with the Title V renewal application shows a range of 25 to 100 tpy for the Solid Fuel Yard based on a composite AP-42 emission factor of 0.01 lb/ton of fuel handled.

The current Big Bend Station Title V permit includes the following rates: Transloading fuel annual throughput is limited to 1,428,030 tons and an hourly maximum of 4000 tph (24-hr average).

The Big Bend Solid Fuel Yard Facility consists of the following emissions points:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

<u>Description</u>	<u>Source ID</u>
Barge Clamshell to Conveyor D1	FH-001
Barge Bucket Elevator to Conveyor A1	FH-002
Conveyor A1 to Conveyor B1	FH-003
Conveyor B1 to Conveyor D1	FH-004
Self-Unloading Barge to Conveyor D1	FH-005
Conveyor D1 to Conveyor E1	FH-006
Conveyor E1 to Conveyor Y or Conveyor F1	FH-007
Conveyor Y to Conveyor Z	FH-008a
Conveyor Z to West Emergency Pile	FH-008b
Dozer Operations on West Emergency Storage Pile	FH-009
West Emergency Storage Pile	FH-010
Dozer Reclaim from West Emergency Pile to Portable Conveyor	FH-011a
Conveyor Z to Conveyor P	FH-012
Conveyor P to Intermediate Conveyor	FH-013
Intermediate Conveyor to North Stacker Conveyor (G2)	FH-014
North Stacker Conveyor (G2) to North/Center Storage Pile	FH-015
Mobile Reclaimer to North Stacker Conveyor (G2)	FH-016
North Stacker Conveyor (G2) to Conveyor P	FH-017
Dozer Operations on North Storage Pile	FH-018
North Storage Pile	FH-019
Dozer Operations on Middle (Common) Storage Pile	FH-020
Fuel Storage - Middle (Common) Storage Pile	FH-021
Conveyor F1 to South Stacker Conveyor (G1)	FH-022
South Stacker Conveyor (G1) to South/Center Storage Pile	FH-023
South Reclaimer to South Reclaimer Conveyor (G1)	FH-024
South Reclaimer Conveyor (G1) to Conveyor F1	FH-025
Dozer Operations on South Storage Pile	FH-026
South Storage Pile	FH-027
Conveyor P to Conveyor J2	FH-028
Conveyor J2 to Conveyor Q2	FH-029
Conveyor F1 to Conveyor J1	FH-030
Conveyor J1 to Conveyor Q1	FH-031
Conveyors Q1 and Q2 to Blending Bins	FH-032 thru FH-035
Blending Bins to Conveyors T1, T2	FH-036 thru FH-047
Conveyor T1 to Crusher #1	FH-048
Conveyor T2 to Crusher #2	FH-049
Crusher to Conveyor W1	FH-050
Crusher to Conveyor W2	FH-051
Conveyor U to East Emergency Storage Pile	FH-052

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

<u>Description</u>	<u>Source ID</u>
Dozer Operations on East Emergency Storage Pile	FH-053
East Emergency Storage Pile	FH-054
Conveyor W1 to Conveyor L1	FH-055
Conveyor W2 to Conveyor L2	FH-056
Dozer Reclaim from East Emergency Pile to "K" Feeders	FH-057
"K" Feeders to Conveyors L1 or L2	FH-058
Conveyors L1 and L2 to Conveyors M1 and M2, and Conveyors M1 and M2 to Coal Bunkers	FH-059 thru FH-062
Dozer Operations on Storage Pile	FH-063
Non-TEC Fuel Stockpile to Loadout Conveyor	FH-067
Non-TEC Fuel Truck Loading	FH-068
Polk Fuel Truck Loading	FH-069
Long Term Storage Pile	FH-070
Dozer Operations on Long Term Storage Pile	FH-071
Trucks, Full	FH-072
Trucks, Empty	FH-073

[Source: Additional Information: e-mail and letter dated September 2, 2005]

The fly ash and the limestone handling and storage and their fugitive emission points are not identified as part of the Solid Fuel Yard Emissions Point Units.

5. RULE APPLICABILITY

This project will be reviewed under Rule 62-212.300 F.A.C., General Preconstruction Review Requirements. This proposed off site solid fuel transloading modification project, is not subject to review under Rule 62-212.400 F.A.C., Prevention of Significant Deterioration (PSD), because the potential emission increases for PM/PM₁₀ (~7/2 TPY), do not exceed the significant emission rates given in Chapter 62-212, Table 62-212.400-2, F.A.C.

The particulate matter facility-wide emissions cap of 2,767 TPY will not be exceeded as a result of this project [0570039-012-AC and 05790039-017-AV].

The Solid Fuel Yard Facility is subject to all applicable requirements of the 40CFR60, New Source Performance Standard (NSPS) Subpart Y for Coal Preparation Plants.

This facility is located in an area (Hillsborough County) designated "unclassifiable" for SO₂, "maintenance" for Ozone (O₃), and lead (Pb), in the "area of influence" of the PM maintenance area and "attainment" for all the other criteria pollutants. [Rule 62-204.360, F.A.C. and Applicant's e-mail dated August 11, 2005].

This facility shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein). These requirements are already incorporated in the current Title V Operation Permit for this facility.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

6. SOURCE IMPACT ANALYSIS

6.1 **Emission Limitations**

The proposed off-site transloading operation will emit not more than 7/2 TPY of particulate matter (PM/PM₁₀) as a result of the new emission point PET-01; COAL-01; and SLAG-01. There will be no increase in maximum hourly or annual Big Bend Station fuel yard solid fuel handling rates. (Application submitted December 6, 2004, Attachment D).

6.2 **Control Technology**

As reported by the applicant, unconfined particulate matter emissions that may result from operations at this facility include vehicular traffic on paved and unpaved road, wind-blown dust from yard areas and periodic abrasive blasting.

This facility shall comply with applicable provisions of Rule 62-210.320 F.A.C- Reasonable Precautions for Unconfined Emissions of Particulate Matter, and all the specific and facility wide conditions already included in the Title V permit.

7. CONCLUSION

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations.

Scott Sheplak, P.E.
Teresa Heron, Review Engineer



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

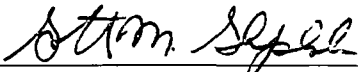
P.E. Certification Statement

Permittee:
Tampa Electric Company
Big Bend Station

Permit No.: 0570039-018-AC

Project Type: Air Construction Permit
Off-site Transloading Operation

I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).



Scott M. Sheplak, P.E. 11/29/05
Date
Registration Number: 48866

Permitting Authority:
Department of Environmental Protection
Bureau of Air Regulation
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301
Telephone: 850/921-9532
Fax: 850/921-9533

SMS/TH

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PERMITTEE:

Tampa Electric Company (TEC)
Big Bend Power Station
Big Bend Road
Tampa, Florida 33572

File No.	0570039-018-AC
Project	Transloading Project Modification
SIC No.	4911
ARMS No.	Solid Fuel Yard Emissions Unit 010
Expires:	July 31, 2006

Authorized Representative:
Karen Sheffield, General Manager

PROJECT AND LOCATION:

This is an Air Construction Permit to allow the transloading of coal, petcoke and slag to off site facilities. Emissions points associated with this operation are: (a) the transfer of coal, petcoke or slag from a storage pile by front-end loaders to trucks, and (b) coal, petcoke, or slag truck travel on the facility paved and unpaved roads. This operation is conducted at the facility's Solid Fuel Yard. This Emission Unit is located at the Big Bend Power Plant, Big Bend Road, Tampa, Hillsborough County. UTM coordinates are: Zone 17; 361.9 km E; 3075 km N.

STATEMENT OF BASIS:

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to modify the facility in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

Attached appendices made a part of this permit:

Appendix GC	Construction Permit General Conditions
Appendix C	Common Permit Conditions

Michael G. Cooke, Director
Division of Air Resource Management

SECTION I. FACILITY INFORMATION

1.0 FACILITY DESCRIPTION

TEC Big Bend is a nominal 1998 MW electric generation facility. This facility consists of four steam boilers (Units Nos. 1 through 4) fired with solid fuels and controlled by individual EPS and a flue gas desulfurization system; four steam turbines; three simple-cycle combustion turbines (CT Nos. 1, 2, and 3) fired with No.2 fuel oil; storage and handling facilities for solid fuels, fly ash, limestone, gypsum, slag, and bottom ash; fuel oil storage tanks and ancillary equipment. There are ongoing nitrogen oxides (NO_x) control projects for Units 3 and 4 pursuant to a Consent Final Judgement (CFJ) between TEC and the Department and a Consent Decree (CD) between TEC and the United States Environmental Protection Agency (EPA).

This permit addresses only two additional emissions points at the Solid Fuel Yard Facility.

SOLID FUEL YARD DESCRIPTION: Solid fuel (coal, petcoke, slag, and coal residual from the Polk Power Station) is unloaded from ship/barge into the solid fuel yard, the blending bins or directly to the tripper room via belt conveyors. Solid fuel from the piles is loaded onto belt conveyors using a rail mounted or mobile reclaimer. The solid fuel is then belt conveyed to the blending bins, which consists of six storage bins, where the solid fuel may be blended for use at the plant, or transloaded into trucks for shipment off site. Particulate matter (PM) emissions from the conveyors in the blending bins are controlled by 4 rotoclones, one at the conveyor drop, and one for every 2 bins. Blending bins can either feed the transloader, or solid fuel can be conveyed, via 2 parallel belts (T1, T2) to 2 crushers (each belt has a crusher), or diverted directly to the tripper room. PM emissions from the 2 crushers and transfer tower are controlled by 2 rotoclones. Coal residual from Polk Power Station is received by truck and placed in a building, where it is conveyed to the unit tripper room.

From the tripper room, 2 trippers bunker the solid fuels into 4 solid fuel bunkers. Each unit has its own respective bunker. From the bunkers, the solid fuel is gravity fed into 14 mills, and then fed into the boilers. There are 3 ball mills, each for Unit Nos. 1 – 3, and 5 bowl mills for Unit No. 4. From the mills, the solid fuel is pneumatically fed into classifiers, two for each mill on Unit Nos. 1-3 and one for each mill on Unit No. 4 for a total of 23 classifiers, and then into the respective boilers.

Proposed Project

Coal, petcoke, or slag will be brought in by barge at infrequent intervals and transferred to Transfer Station T2 using existing conveyors. From Station T2, the transloaded materials will be transferred to storage piles located in the west fuel yard using existing conveyors CB-Y and CB-Z. The coal, petcoke, and slag will then be loaded into truck using front-end loaders for off-site shipment.

The only new additional emissions points associates with this operation are: (a) the transfer of coal, petcoke from a storage pile by front-end loaders to trucks and (b) coal, petcoke, or slag truck travel on Big Bend paved and unpaved roads. All other coal, petcoke or slag handling activities will use existing equipment (e.g., conveyor belts, storage pile stackout, and dozer operations on storage piles). The coal or petcoke will be treated with a chemical surfactant prior to arriving at the Big Bend Station, the slag has minimal dust potential due to its glassine properties and therefore does not need to be treated with a chemical surfactant.

2.0 REGULATORY CLASSIFICATION

The facility, Big Bend Station Power Plant, is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM₁₀), sulfur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), or volatile organic compounds (VOC) exceeds 100 tons per year (TPY).

This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).

SECTION I. FACILITY INFORMATION

This facility is located in an area (Hillsborough County) designated "unclassifiable" for SO₂, "maintenance" for Ozone (O₃), and lead (Pb), in the "area of influence" of Hillsborough County particulate matter (PM) maintenance area, and "attainment" for all the other criteria pollutants (Rule 62-204.360, F.A.C.).

This facility is also subject to the provisions of Title IV, Acid Rain, Clean Air Act as amended in 1990.

Based on the initial Title V permit application received June 14, 1996, this facility is a major source of hazardous air pollutants (HAPs).

3.0 PERMIT SCHEDULE

- 00/00/00 Notice of Intent published in the _____
- 00/00/00 Distributed Intent to Issue Permit
- 09/02/05 Application deemed complete
- 12/06/04 Received Application

4.0 RELEVANT DOCUMENTS:

The documents listed below are the basis of the permit. They are specifically related to this permitting action, but not all are incorporated into this permit. These documents are on file with the Department.

- 12-06-04: Date of Receipt of Application (waiver of the air construction permit processing time)
- 01-20-05: DEP Incompleteness Letter for both Title V and Air Construction Permit requests
- 04-19-05: Received TEC request to extend the response deadline to May 31, 2005
- 05-31-05: Received TEC Response to Incompleteness Letter
- 06-28-05: DEP e-mail confirming telephone conversation of 6/27/05
- 07-01-05: DEP Application Status Letter
- 07-11-05: TEC e-mail requesting removal of the CO limit.
- 09-02-05: TEC e-mail and letter requesting to withdraw the Title V application.
- 09-02-05: Air Construction application complete

- Title V Permit, 0570039-017-AV, effective January 1, 2005.

SECTION II. ADMINISTRATIVE REQUIREMENTS

GENERAL AND ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The Permitting Authority for this project is the Florida Department of Environmental Protection's Bureau of Air Regulation located at 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400 and phone number 850/488-0114.
2. Compliance Authority: All documents related to reports, tests, and notifications should be submitted to the DEP Southwest District office (DEPSW), 3804 Coconut Palm Drive, Tampa, Florida 33619 and phone number 813/744-6100 and the Environmental Protection Commission of Hillsborough County (EPCHC), 3629 Queen Palm Dr, Tampa, Florida 33619-1309, and phone number 813/627-2600.
3. General Conditions: The owner and operator are subject to, and shall operate under the attached General Conditions listed in *Appendix GC* of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160, F.A.C.]
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of this project shall be in accordance with the capacities and specifications stated in the application. This facility is subject to all applicable provisions of: Chapter 1-3.62 Rules of the Environmental Protection Commission of Hillsborough County (EPCHC); Chapter 403, F.S.; Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296, and 62-297, F.A.C.; 40 CFR 60; and 40 CFR 63. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]
5. Permit Expiration: For good cause, the permittee may request that this air construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.070(4), 62-4.080, and 62-210.300(1), F.A.C.]
6. Completion of Construction: Construction on the Solid Fuel Yard is complete. On-going construction activities include the necessary activities for the transloading operations described in this permit. *The permit expiration date is July 31, 2006.*
7. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
8. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]
9. Title V Permit: An application for a revision of the Title V operation permit pursuant to Chapter 62-213, F.A.C., must be submitted to the Department's Bureau of Air Quality Regulation to incorporate the specific conditions of this Air Construction Permit. [Chapter 62-213, F.A.C.]

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

This section addresses the following emissions points in the Solid Fuel Yard:

<u>E.U. ID No.</u>	<u>Brief Description:</u>
-010	Emissions points PET-01, COAL-01, SLAG-01, and PET/COAL/SLAG-02a, 02b and 3a, 3b

1.0 ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

- 1.1 Permitted Capacity. The maximum combined transloading rate shall not exceed 150,000 tons per year (142 tons per hour) for coal, petcoke and slag. The maximum throughput rate of the Solid Fuel Yard shall not exceed 4,000 tons per hour on a 24-hr average (1,428,030 tons per year).
[Rules 62-4.160(2), and 62-210.200 (PTE), F.A.C. and AC29-114676]

2.0 OPERATING REQUIREMENTS

- 2.1 Hours of Operation. The solid fuel yard is allowed to operate continuously, i.e., 8,760 hours/year.
[Rules 62-4.160(2) and 62-210.200, F.A.C., P.T.E.]

3.0 EMISSION LIMITATIONS AND STANDARDS

- 3.1 Visible Emissions. Visible emissions generated by fugitive or unconfined particulate matter from this transloading operation (emissions points PET-01, COAL-01, SLAG-01, and PET/COAL/SLAG-02a, 02b and 3a, 3b) shall not exceed 20% opacity.
[Rule 62-296.320(4)(b)1, F.A.C.]

4.0 TEST METHODS AND PROCEDURES

- 4.1 Test Methods and Frequency: The test method for visible emissions shall be determined using EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C. Initial and annual testing is required. A VE test shall be performed in each new emissions point.
[Rules 62-204.800, 62-297.310(7)(a)4., and 62-297.400, F.A.C.]

5.0 REASONABLE ASSURANCES

- 5.1 Controls: All controls associated with the transfer points (i.e., the enclosures and dust suppression) shall be maintained to the extent that the capture efficiencies credited will be achieved. Reasonable precautions to prevent unconfined emissions of particulate matter shall be in accordance with Rule 62-296.320(4).F.A.C
[Rule 62-4.070(3), and Rule 62-296.320(4) (c) F.A.C.]

6.0 REPORTS AND RECORDS

- 6.1 Duration: All reports and records required by this permit shall be kept for at least (5) years from the date the information was recorded. [62-4.160(14)(b), F.A.C.]

7.0 OTHER REQUIREMENTS

- 7.1 Applicable Permit Requirements: This permit (transloading coal, petcoke, and slag to off-site facilities) does not supersede or change any applicable requirement of previous construction/operation permits for the Solid Fuel Yard or for any other emission unit at the Facility.

APPENDIX GC
GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
 - a. Have access to and copy and records that must be kept under the conditions of the permit;
 - b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
 - c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. A description of and cause of non-compliance; and
 - b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.

APPENDIX GC
GENERAL CONDITIONS

Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
 - a. Determination of Best Available Control Technology ();
 - b. Determination of Prevention of Significant Deterioration ();
 - c. Compliance with New Source Performance Standards () and
 - d. Compliance with National Emissions Standards for Hazardous Air Pollutants ().
14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - 1) The date, exact place, and time of sampling or measurements;
 - 2) The person responsible for performing the sampling or measurements;
 - 3) The dates analyses were performed;
 - 4) The person responsible for performing the analyses;
 - 5) The analytical techniques or methods used; and
 - 6) The results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

APPENDIX C
COMMON CONDITIONS

{Permitting Note: Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.}

EMISSIONS AND CONTROLS

1. **Plant Operation - Problems:** If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. **General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited.** No person shall cause, suffer, allow, or permit the discharge of air pollutants, which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
3. **General Particulate Emission Limiting Standards. General Visible Emissions Standard.**
Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]
4. **General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions.** The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.
[Rule 62-296.320(1)(a), F.A.C.]
5. **Circumvention:** The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
6. **Excess Emissions Allowed:** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
7. **Excess Emissions Prohibited:** Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

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

8. **Volatile Organic Compounds (VOC) or Organic Solvents (OS) Emissions:** No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
9. **Objectionable Odor Prohibited:** No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(203), F.A.C.]

APPENDIX C
COMMON CONDITIONS

10. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
11. Unconfined Emissions of Particulate Matter:
- (1) No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction, alteration, demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions.
 - (2) Any permit issued to a facility with emissions of unconfined particulate matter shall specify the reasonable precautions to be taken by that facility to control the emissions of unconfined particulate matter.
 - (3) Reasonable precautions include the following:
 - a. Paving and maintenance of roads, parking areas and yards.
 - b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
 - c. Application of asphalt, water, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
 - d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent reentrainment, and from buildings or work areas to prevent particulate from becoming airborne.
 - e. Landscaping or planting of vegetation.
 - f. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
 - g. Confining abrasive blasting where possible.
 - h. Enclosure or covering of conveyor systems.
- Additional reasonable precautions applicable to this facility are included in the Title V Permit.
- (4) In determining what constitutes reasonable precautions for a particular source, the Department shall consider the cost of the control technique or work practice, the environmental impacts of the technique or practice, and the degree of reduction of emissions expected from a particular technique or practice.

[Rule 62-296.320(4)(c), F.A.C.]

TESTING REQUIREMENTS

12. Required Number of Test Runs: For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]
13. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

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14. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]
15. Test Performance Requirements: Tests shall be conducted in accordance with all applicable requirements of 40CFR60, Subpart A - General Provisions and 40CFR63, Subpart A - General Provisions. In the event that the facility fails any initial or annual performance test, a retest shall be conducted within 30 days of the test date of the failed test.
16. Applicable Test Procedures.

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
2. Opacity Compliance Tests. When EPA Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur.

Exceptions to these requirements are as follows:

- a. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
- b. For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.
- c. The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

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

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

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

(e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.

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

17. Determination of Process Variables

- a. Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- b. Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

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

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18. **Sampling Facilities:** The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C. Refer to Appendix SS-1 Stack Sampling Facilities, attached to this permit.
19. **Test Notification:** The owner or operator shall notify in writing to the Compliance Authority, at least *30 days* (initial) and *15 days* (annual) prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator. [Rule 62-297.310(7)(a)9, F.A.C.]
20. **Exceptions and Approval of Alternate Procedures and Requirements:** An Alternate Sampling Procedure (ASP) may be requested from the Bureau of Monitoring and Mobile Sources of the Florida Department of Environmental Protection in accordance with the procedures specified in Rule 62-297.620, F.A.C.
21. **Frequency of Compliance Tests.** The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
- (a) *General Compliance Testing.*
1. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - a. Did not operate; or
 - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
 2. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard;
 - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; or 100 tons per year or more of any other regulated air pollutant; and,
 - c. Each NESHAP pollutant, if there is an applicable emission standard.
 3. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- (b) *Special Compliance Tests.* When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
- (c) *Waiver of Compliance Test Requirements.* If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
- [Rule 62-297.310(7), F.A.C.; 40 CFR 63.1349(c)]
22. **Test Reports:** The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the

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test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.
2. The facility at which the emissions unit is located.
3. The owner or operator of the emissions unit.
4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
8. The date, starting time and duration of each sampling run.
9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
10. The number of points sampled and configuration and location of the sampling plane.
11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
12. The type, manufacturer and configuration of the sampling equipment used.
13. Data related to the required calibration of the test equipment.
14. Data on the identification, processing and weights of all filters used.
15. Data on the types and amounts of any chemical solutions used.
16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard and the resulting maximum allowable emission rate for the emissions unit plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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

RECORDS AND REPORTS

23. **Records Retention:** Upon request, the permittee shall furnish all records and plans required under EPCHC and FDEP rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the EPCHC. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least five years from the date of the sample, measurement, report, or application unless otherwise specified by EPCHC or FDEP rule.

[Rules 62-4.160(14)(a)&(b) and 62-213.440(1)(b)2.b., F.A.C.]

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24. Excess Emissions Report: If excess emissions occur, the owner or operator shall notify the Air Facilities Section of the EPCHC, within (1) working day (excluding weekends and legal holidays) of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. In addition, the EPCHC may request a written summary report of the incident.
[Rules 62-4.130 and 62-210.700(6), F.A.C.]
25. Excess Emissions Malfunction Notification Report - Malfunctions: In case of excess emissions resulting from malfunctions, each owner or operator shall notify the EPCHC in accordance with Rule 62-4.130, F.A.C. In addition, a full written report on the malfunctions shall be submitted in a quarterly report.
[Rule 62-210.700(6), F.A.C.]
26. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to EPCHC, the Compliance Authority, by March 1st of each year. [Rule 62-210.370(2), F.A.C.]
27. Central File Requirements: This facility shall maintain a central file containing all measurements, records, and other data that are required to be collected pursuant to the various specific conditions of this permit.
All measurements, records, and any other data required to be maintained by TEC shall be retained for at least five (5) years following the date on which such measurements, records, or data are recorded. These data shall be made available to the EPCHC upon request. EPCHC shall be notified in writing at least 15 days prior to the testing (auditing) of any emission measurement instrument required to be operated by these specific conditions in order to allow witnessing by authorized personnel.
[Rule 62-4.070(3), F.A.C.]

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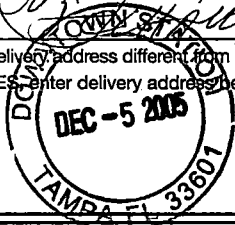
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