

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PERMIT

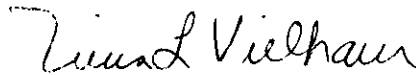
In the Matter of an
Application for Air Construction Permit by:
Ms. Karen Sheffield, General Manger
Tampa Electric Company (TEC)
P.O. Box 111
Tampa, FL 33601-0111

Air Permit No.: 0570039-025-AC
Big Bend Station
Additional Transloading Project
Hillsborough County, Florida

Enclosed is the Final Permit Number 0570039-025-AC for an air construction permit to allow expansion of coal and petcoke transloading for off-site shipping and to authorize slag transloading at the TEC Big Bend Power Station Solid Fuel Yard which is located at Big Bend Road in Hillsborough County, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; 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 of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



Trina L. Vielhauer, Chief
Bureau of Air Regulation

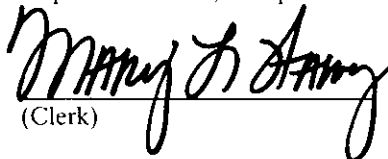
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF FINAL PERMIT (including the FINAL permit) and all copies were sent electronically (with Received Receipt) before the close of business on 10/31/06 to the person(s) listed below.

Karen Sheffield, TEC (kasheffield@tecoenergy.com)
Byron Burrows, TEC (btburrows@tecoenergy.com)
Thomas Davis, P.E., ECT (tdavis@ectinc.com)
Mara Nasca, DEP SWD (mara.nasca@dep.state.fl.us)
Diana Lee, EPCHC (leed@epchc.org)
Jeff Sims, EPCHC (simsj@epchc.org)
Jim Little, EPA Region 4 (Little.James@epamail.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) 10/31/06 (Date)



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

PERMITTEE:

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

File No.:	0570039-025-AC
Project	Additional Transloading Project
SIC No.:	4911
ARMS No.:	Emissions Unit 010 – Solid Fuel Yard
Expires:	July 31, 2007

Authorized Representative:
Karen Sheffield, General Manager

PROJECT AND LOCATION:

This is an Air Construction Permit to allow additional coal and petcoke transloading for off-site shipping and to authorize slag transloading at the TEC Big Bend Power Station Solid Fuel Yard. New emissions points associated with this operation are: (a) the transfer of slag from a barge to the fuel storage yard (b) the transfer of coal, petcoke or slag from a storage pile by mobile equipment to trucks, and (c) 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

Joseph Kahn, Director
Division of Air Resource
Management

JK/tlv/aal/sms/th

Memorandum

Florida Department of Environmental Protection

TO: Joseph Kahn
THROUGH: Trina Vielhauer
FROM: A. A. Linero, ~~Scott Sheple~~ and Teresa Heron
DATE: October 27, 2006
SUBJECT: Tampa Electric Company (TEC) – Big Bend Station.
Transloading of Coal, Petcoke and Slag
DEP File No. 0570039-025-AC

Attached is the final air construction permit that recognizes additional transloading operations at the TEC Big Bend Solid Fuel Yard. Here transloading generally relates to the offloading of fuels and reloading for off-site shipment by truck.

Historically, the Big Bend Units use about 6,000,000 tons per year (TPY) of solid fuels. On the order of 1,000,000 TPY are used at the Polk Power Station. All solid fuels for both facilities are delivered to the Big Bend Station by barge. Barges are unloaded and these fuels are conveyed to successive transfer stations primarily for subsequent on-site uses. There are about 73 emission points at the solid fuel yard. None is delivered by rail.

The enforceable limitations at the Big Bend Solid Fuel Yard relate to transloading of fuel. These are 4,000 tons per hour on a 24-hr rolling average and 1,428,030 tons per year and were set by a Modification in 1995 to the Big Bend Certification. Such fuel is generally transported by trucks to (but not necessarily limited to) the TEC Polk Power Station IGCC Unit. The Polk Power Station receives all of its fuel by trucks.

The new permit is to recognize or allow some additional emissions points that were added for transloading of coal and petcoke to other power plants (or possibly cement plants) and to transload slag to companies such as Reed Minerals for use in sandblasting projects. Such additional transloading operations are estimated at 144 tons per hour and will be accomplished within the presently allowed transloading rates mentioned above. Therefore, the Polk Power Station will continue to be the primary recipient of transloaded fuels.

The additional transloading operations involve three more emission points (and a few "subpoints") beyond the 73 mentioned above. These are:

- Transfer of coal, petcoke, or slag from storage piles by mobile equipment to trucks;
- Additional paved road traffic; associated with additional transloading operations; and
- Additional unpaved road traffic; associated with additional transloading operations.

The additional emissions points related to additional transloading activities were detected by Hillsborough County EPC. TEC submitted a permit exemption request. They were subsequently advised that a construction permit is required for the additional activities and the associated emissions points.

In preparing the final air construction permit, we made some changes to make it more understandable and to avoid confusion with the previously allowed activities related to coal use by Big Bend Station and the Polk Power Station. We allowed them to use the 144 TPH value as a reference for visible emissions testing at the three emissions points rather than a hard limit. This is logical given the overwhelmingly greater existing fuel internal conveyance and transloading operations at Big Bend Station.

We recommend your approval of this final action.

TLV/aal/sms/th

FINAL DETERMINATION

Tampa Electric Company (TEC)
Big Bend Power Station, Hillsborough County
Off-site Transloading of Coal, Petcoke or Slag
DEP File No.: 0570039-025-AC

An Intent to Issue an Air Construction Permit to TEC was distributed on July 11, 2006. The purpose is to authorize additional transloading operations and emissions points at the TEC Big Bend Solid Fuel Yard related to the shipment of coal, petcoke or slag.

This facility is located at Big Bend Road, Hillsborough County, Florida. The Public Notice of Intent to Issue Air Construction Permit was published in The Tampa Tribune on August 4, 2006. The proof of the Public Notice was received by the Department on August 9, 2006.

No comments were received from the public or agencies (other than Hillsborough County EPC) as a result of the public notice period. No requests for public meetings, administrative hearings or enlargement of time were received.

Comments were received from TEC on the Technical Evaluation and Preliminary Determination (TEPD) and on the Draft Permit. Their comments are related to:

- Minor changes in the description of the project;
- Proper designation of the emissions points;
- Specification of visible emissions testing requirements; and
- Reference of the maximum hourly rate for the additional transloading as a testing requirement rather than an absolute maximum value.

Comments were also received from the Environmental Protection Commission of Hillsborough County (EPCHC). Their comments were related to:

- The comments received from TEC;
- Unconfined emissions of particulate matter;
- The expiration date of the permit; and
- Reports and recordkeeping requirements.

The key changes requested by TEC and Hillsborough County are paraphrased below in *italics* and are followed by the Department's responses and permit changes in regular script shown in double underline (additions) and ~~striketrough~~ (deletions) format:

A. *Placard Page: TEC requested that the emissions point related to slag transfer from barges to the fuel storage yard be described within the Placard Page Project Description. TEC also requested some other minor descriptive changes in the same section. The EPCHC recommended extension of the draft expiration date to allow for testing and submittal of an application for a Title V Operation Permit Revision.*

The Department agrees with TEC's requests. The Department also made some minor changes on the Placard Page for clarity. The expiration date of the permit will be extended to allow for testing and submittal of the subsequent Title V Operation Permit Revision.

PLACARD PAGE

Project and Location

This is an Air Construction Permit to allow ~~the transloading of coal (except residual coal), petcoke and/or slag to off-site facilities~~ additional coal and petcoke transloading for off-site shipping and to authorize slag transloading at the TEC Big Bend Power Station Solid Fuel Yard. ~~New e~~ Emissions points associated with this operation are: (a) the transfer of slag from a barge to the fuel storage yard (a ~~b~~) the transfer of coal, petcoke or slag from a storage pile by ~~front-end loaders~~ mobile equipment to trucks, and (~~b~~ c) 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.

~~Expiration: December 31, 2006~~ July 31, 2007

(There are no other changes to the Placard Page)

- B. *Section I, Facility Description: TEC requested changes in the Facility Description related to the correct rated electrical capacity of the facility, the description of transloading operations, the emissions points, and the correct descriptions of the coal mills.*

The Department agrees with TEC's requests. The facility electrical capacity rating was of a descriptive nature. It will be removed since it is unrelated to this permitting action and properly described in the next Title V Operation Permit Renewal. In addition the Department added a short description within the "Proposed Project" portion that describes present operations at the fuel yard and what will be authorized by this permitting action. Following are the changes to the Facility Description:

1.0 FACILITY DESCRIPTION

~~The 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 ESP 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~~ three additional emissions points at the Solid Fuel Yard Facility.

SOLID FUEL YARD DESCRIPTION: ~~Currently, S~~ solid fuel (coal; and 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 ball 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

TEC is already authorized to receive, blend and transload coal and petcoke and to export it from the Big Bend Station to other facilities such as the TEC Polk Power Station. The facility is expanding the scope of its coal and petcoke transloading operations, particularly to non-TEC facilities, and also to transload slag to other offsite facilities. TEC will accommodate the additional transloading activities at Big Bend without increasing the recognized total transloading rates approved in Site Certification PA79-12 (1995) and specified in the facility Title V Operation Permit No. 0570039-017-AV.

Coal, petcoke, or slag related to the additional transloading 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 fuel yard using a combination of existing conveyors. The coal, petcoke, and slag will then be loaded into trucks using front-end loaders for off-site shipment.

The only new additional emissions points associated with theis additional transloading operations are: (a) the transfer of slag from a barge to the fuel storage yard, (b) the transfer of coal, petcoke or slag from a storage pile by front-end loaders mobile equipment to trucks and (b c) 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.

(There are no other changes to Section I, 1.0)

- C. *TEC requested slightly different emissions point designations than given in the draft permit and the addition of new points to differentiate between empty and full trucks as well as paved and unpaved roads.*

The Department agrees with the new designations for the main three emissions points (FH-074, 75, and 76) related to reclaim from piles, truck traffic along paved roads, and truck traffic along unpaved roads. Each emissions point is further described, as applicable, with respect to operational mode, such as material handled, whether the road traveled is paved or

unpaved, or whether the truck is full or empty. The Department made some minor changes as well for clarity such as putting the Emissions Unit and Emissions Points in tabular format.

The following changes were made to the Emissions Unit and Emissions Point descriptions (descriptions shown in their entirety) within Section III of the permit:

This section addresses the following Emissions Unit:

<u>ARMS Emissions Unit No.</u>	<u>Brief Description of Emissions Unit</u>
<u>010</u>	<u>Solid Fuel Yard, Fugitive Emissions</u>

The following Emissions Points are added to this Emissions Unit:

<u>Emissions Point</u>	<u>Description of Emissions Point</u>
FH-074a PET 01	Front end Reclaim from Petcoke Storage Pile to Trucks
FH-074b COAL 01	Front end Reclaim from Coal Storage Pile to Trucks
FH 074c SLAG 01	Front end Reclaim from Slag Storage Pile to Trucks
FH-075a PET/COAL/SLAG 02a, 02b	Truck Traffic (paved roads, <u>empty trucks</u>)
<u>FH 075b PET/COAL/SLAG</u>	<u>Truck Traffic (paved roads, full trucks)</u>
FH-076a PET/COAL/SLAG 03a, 03b	Truck Traffic (unpaved roads, <u>empty trucks</u>)
<u>FH-076b PET/COAL/SLAG</u>	<u>Truck Traffic (unpaved roads, full trucks)</u>

- D. *Specific Condition No.1: TEC proposed to delete the following phrase: “The maximum hourly transloading rate to trucks shall not exceed 142 tons per hour (TPH).” Also the application gave a rate of 144 TPH and not 142 TPH for the additional transloading.*

TEC already has a limitation for *all* fuel transloading of 4,000 TPH on a 24-hour rolling basis and 1,428,030 TPY. These existing limitations will accommodate the additional transloading activities estimated at 144 TPH and 450,000 TPY. For reference, the existing solid fuel consumption at the Big Bend Station for Units 1-4 is on the order of 6,000,000 TPY and is in addition to the existing transloading activities. The described additional transloading activities are relatively small in relation to the authorized transloading activities primarily related to shipment of fuel to the Polk Power Station and the fuel handling related to the Big Bend Units.

The Department will remove the 1-hour rate and refer it to the Specific Condition 4 (visible emissions testing) as described in Comment 4 below. The Department will keep and clarify the present transloading limitations, including their origin in earlier conditions of certifications.

The Department will remove the permitting note because the added language in the condition now sufficiently clarifies the kinds and amounts of materials that can be transloaded at the three additional emissions points. The changes to Specific Condition 1 (shown in its entirety) are as follows:

1. Materials Allowed and Permitted Capacity. The allowable materials to be transloaded via the emission points listed above as FH-074, FH-075, and FH-076 are coal (except residual coal), petcoke or slag. The maximum hourly transloading rate to trucks shall not exceed 142 tons per hour; only one material will be transloaded at a time. Maximum annual transloading rates at these three additional emissions points shall not exceed 150,000 tons per year for each material and 450,000 tons per year for all three materials combined; only one material will be transloaded at a time.

The maximum solid fuel/slag transloading throughput rates of the Solid Fuel Yard shall not exceed 4,000 tons per hour on a 24-hr rolling average and shall not exceed (1,428,030 tons per year).

{Permitting Note: It should be noted that only 150,000 tons per year of one material type (coal or petcoke or slag) shall be transported. The 450,000 tons per year transloading shall not be interpreted as transloading this quantity for one single material; it is an annual rate for all three materials combined.}

[Rules 62-4.070 (3) 160(2), and 62-210.200 (PTE), F.A.C.; and Site Certification Modifications PA79-12C and D AC29-114676]

- E. *Specific Conditions No. 3, Visible Emissions. The same changes are requested as C above with respect to emissions point designations.*

The Department is removing the 20% visible emissions limit requirement for truck traffic and relying on a reasonable precaution to use tarps as described in item H below. The visible emissions requirement still applies directly to the reclaiming operations from piles to trucks. The changes to Specific Condition 3 require some clarifications in Specific Condition 5. The Department will revise Specific Condition 3 and Condition 5 as shown below (in their entirety):

3. Visible Emissions. Visible emissions generated by fugitive or unconfined particulate matter from this transloading operation (emissions points FH-074a, FH-074b, and FH-074c, PET-01, COAL-01, SLAG-01, and PET/COAL/SLAG-02a, 02b and 03a, 03b) shall not exceed 20% opacity. [Rule 62-296.320(4)(b)1, F.A.C.]
5. 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. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading. Reasonable precautions to prevent unconfined emissions of particulate matter shall be in accordance with Rule 62-296.320(4), F.A.C. and are enumerated in Appendix C, Common Condition 11. of this permit.
[Rule 62-4.070(3), and Rule 62-296.320(4) (c) F.A.C.]

- F. *Specific Condition No. 4: TEC proposed to conduct initial and annual visible emissions tests only on movements of petcoke from the piles to the trucks and not coal or slag movements to the trucks. Presumably petcoke is the material with greatest dust generation potential. The same changes are requested as C above with respect to emissions point designations.*

TEC will be required to conduct initial visible tests on all three materials at the Reclaim Operations (Emissions Point FH-074). Thereafter, only annual tests for coal and petcoke will be required. Generally the slag is a glassy material with low dust generation potential. The initial test is expected to confirm this presumption. Following are the changes to Specific Condition 4 (shown in its entirety) related to test methods and procedures:

4. 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. An initial VE test shall be performed on the following new truck-loading emissions points: FH-074a PET-01; FH-074b COAL-01 and FH-074c SLAG-01. Thereafter, annual testing shall be performed on emissions points FH-074a PET and FH-074b COAL. For the purpose of the VE test, the hourly transloading rate to trucks at the subject emissions points shall be as close to 144 tons per hour as practicable.

[Rules 62-204.800, 62-297.310(7)(a)4., and 62-297.400, F.A.C.]

{Permitting Note: No annual testing is required for emission point FH-074c SLAG assuming the initial visible emissions test performed validates that slag handling has minimal emissions.}

- G. *Specific Condition 6. EPCHC requested some additional recordkeeping related to the quantities and types of materials covered by this permit and inclusion in the facility Annual Operating Report.*

The Department agrees with EPCHC and modifies Specific Condition 6 (shown in its entirety) as follows:

6. Recordkeeping and Report Duration: The quantity and type of fuel loaded and transported off-site by each fuel transloading operation emissions point covered in this permit shall be recorded and maintained. The annual quantity of each transloaded material shall be submitted in the Annual Operation Report. All reports and records required by this permit shall be kept for at least (5) years from the date the information was recorded.

[Rule 62-4.160(14)(b), F.A.C.]

- H. *Appendix C, Common Condition 11. EPCHC requested addition of the requirement that trucks utilize tarps when transporting the transloaded fuels and slag.*

The Department agrees that utilization of the tarps constitutes a reasonable precaution especially given the potentially large nature of the additional transloading. A new paragraph will be added to Common Condition 11(3) of Appendix C as shown below:

- i. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading.

[There are no changes to paragraphs a. through h. of Common Condition 11(3). There are no changes to Common Conditions 11(1), 11(2), or 11(4).]

I. TEC had a number of recommendations regarding the Technical Evaluation and Preliminary Determination.

The comments regarding the Technical Evaluation and Preliminary Determination are essentially the same issues discussed above. The Department will not re-issue the Technical Evaluation and Preliminary Determination that accompanied the draft permit. Instead, the Department issues a Final Determination that accompanies the final permit.

CONCLUSION

The final action of the Department will be to issue the permit with the changes as noted above.

SECTION I. FACILITY INFORMATION

1.0 FACILITY DESCRIPTION

The TEC Big Bend facility consists of four steam boilers (Units Nos. 1 through 4) fired with solid fuels and controlled by individual ESP 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 (NOx) 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 three additional emissions points at the Solid Fuel Yard.

SOLID FUEL YARD DESCRIPTION:

Currently, solid fuel (coal and petcoke) 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 reclaimers. 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

TEC is already authorized to receive, blend and transload coal and petcoke and to export it from the Big Bend Station to other facilities such as the TEC Polk Power Station. The facility is expanding the scope of its coal and petcoke transloading operations, particularly to non-TEC facilities, and also to transload slag to other offsite facilities. TEC will accommodate the additional transloading activities at Big Bend without increasing the recognized total transloading rates approved in Site Certification PA79-12 (1995) and specified in the facility Title V Operation Permit No. 0570039-017-AV.

Coal, petcoke, or slag related to the additional transloading 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 fuel yard using a combination of existing conveyors. The coal, petcoke, and slag will then be loaded into trucks using front-end loaders for off-site shipment.

The only new additional emissions points associated with the additional transloading operations are: (a) the transfer of slag from a barge to the fuel storage yard, (b) the transfer of coal, petcoke or slag from a storage pile by mobile equipment to trucks and (c) 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.

SECTION I. FACILITY INFORMATION

2.0 REGULATORY CLASSIFICATION

The facility, TEC Big Bend, 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 Rule 62-210.200, 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).

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

02/13/06: Received Revised Application
02/22/06: DEP Incompleteness Letter
05/10/06: Received TEC Response to Incompleteness Letter
07/07/06: Received TEC Response to additional DEP comments
07/07/06: Application deemed complete
07/11/06: Distributed Intent to Issue Permit

4.0 RELEVANT DOCUMENTS:

This facility presently operates under Title V Operation Permit, 0570039-017-AV, effective January 1, 2005. The documents listed below are the basis of the present air construction permitting action. They are specifically related to this permitting action, but not all are incorporated into this permit. These documents are on file with the Department.

02/13/06: Application received via FedEx
02/22/06: DEP's Request for Additional Information (RAI)
05/10/06: TEC's response to RAI
06/29/06: Comments received from the Environmental Protection Commission of Hillsborough County
07/07/06: TEC's e-mail clarifying issues regarding the slag, control efficiency and transloaded fuels
07/11/06: Draft Permit and Technical Evaluation and Preliminary Determination Distributed
08/04/06: Public Notice published in the legal section of Tampa Tribune
08/09/06: TEC's letter with attached Proof of Publication
08/21/06: TEC's comments on the Technical Evaluation and Draft Permit
09/05/06: Further Comments received by e-mail from the EPCHC on 09/05/06; 09/17/06 and 09/18/06

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), 13051 N. Telecom Parkway, Temple Terrace, Florida 33637-0926 and phone number 813/632-7600 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, 2007.*
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.]

EXISTING PERMITS APPLICABLE REQUIREMENTS

10. Applicable Construction and Operating Permit Requirements: This permit (transloading coal, petcoke, or 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. A list of all authorized emissions points at the fuel yard facility shall be included in the Title V permit revision and/or renewal.

{Permitting Note: Specific Conditions No. A.2 and B.2 of Title V Permit 0570629-017-AV contain the fuels authorized to be burned in Units 1 through 4. This permit does not authorize any additional fuels.}

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

This section addresses the following Emissions Unit:

ARMS Emissions Unit No.	Brief Description of Emissions Unit
010	Solid Fuel Yard, Fugitive Emissions

The following Emissions Points are added to this Emissions Unit:

Emissions Point	Description of Emissions Point
FH-074a PET	Reclaim from Petcoke Storage Pile to Trucks
FH-074b COAL	Reclaim from Coal Storage Pile to Trucks
FH 074c SLAG	Reclaim from Slag Storage Pile to Trucks
FH-075a PET/COAL/SLAG	Truck Traffic (paved roads, empty trucks)
FH 075b PET/COAL/SLAG	Truck Traffic (paved roads, full trucks)
FH-076a PET/COAL/SLAG	Truck Traffic (unpaved roads, empty trucks)
FH-076b PET/COAL/SLAG	Truck Traffic (unpaved roads, full trucks)

ESSENTIAL POTENTIAL TO EMIT (PTE) PARAMETERS

1. Materials Allowed and Permitted Capacity. The allowable materials to be transloaded via the emission points listed above as FH-074, FH-075, and FH-076 are coal (except residual coal), petcoke or slag. Maximum annual transloading rates at these three additional emissions points shall not exceed 150,000 tons per year for each material and 450,000 tons per year for all three materials combined; only one material will be transloaded at a time.

The maximum solid fuel/slag transloading shall not exceed 4,000 tons per hour on a 24-hr rolling average and shall not exceed 1,428,030 tons per year.

[Rules 62-4.070 (3), and 62-210.200 (PTE), F.A.C.; and Site Certification No. PA79-12 C and D]

OPERATING REQUIREMENTS

2. 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.]

EMISSION LIMITATIONS AND STANDARDS

3. Visible Emissions. Visible emissions generated by fugitive or unconfined particulate matter from this transloading operation (emissions points FH-074a, FH-074b, and FH-074c) shall not exceed 20% opacity.
[Rule 62-296.320(4)(b)1, F.A.C.]

TEST METHODS AND PROCEDURES

4. 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. An initial VE test shall be performed on the following truck-loading emissions points: FH-074a PET; FH-074b COAL and FH-074c SLAG. Thereafter, annual testing shall be performed on emissions points FH-074a PET and FH-074b COAL. For the purpose of the VE test, the hourly transloading rate to trucks at the subject emissions points shall be as close to 144 tons per hour as practicable.
[Rules 62-204.800, 62-297.310(7)(a)4., and 62-297.400, F.A.C.]

{Permitting Note: No annual testing is required for emission point FH-074c SLAG assuming the initial visible emissions test performed validates that slag handling has minimal emissions.}

SECTION III. EMISSION UNIT(S) SPECIFIC CONDITIONS

REASONABLE ASSURANCES

5. 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. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading. Reasonable precautions to prevent unconfined emissions of particulate matter shall be in accordance with Rule 62-296.320(4), F.A.C. and are enumerated in Appendix C, Common Condition 11. of this permit.
[Rule 62-4.070(3), and Rule 62-296.320(4) (c) F.A.C.]

REPORTS AND RECORDS

6. Recordkeeping and Report Duration: The quantity and type of fuel loaded and transported off-site by each fuel transloading operation emissions point covered in this permit shall be recorded and maintained. The annual quantity of each transloaded material shall be submitted in the Annual Operation Report. All reports and records required by this permit shall be kept for at least (5) years from the date the information was recorded.
[Rule 62-4.160(14)(b), F.A.C.]

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 any 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.
 - i. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading.

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.

APPENDIX C
COMMON CONDITIONS

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.]

APPENDIX C
COMMON CONDITIONS

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 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:

APPENDIX C
COMMON CONDITIONS

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.]
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

APPENDIX C
COMMON CONDITIONS

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.

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

Adams, Patty

From: Harvey, Mary
Sent: Tuesday, October 31, 2006 4:31 PM
To: 'kasheffield@tecoenergy.com'; 'BTBURROWS@TECOENERGY.COM'; 'TDAVIS@ECTINC.COM'; Nasca, Mara; 'leed@epchc.org'; 'simsj@epchc.org'; 'Little.James@epamail.epa.gov'
Cc: Heron, Teresa; Adams, Patty; Gibson, Victoria
Subject: Permit #0570039-AC-F
Attachments: RTEC025ACPermitL-#0570039-025-AC-F.pdf; 2FINLDET1L-#0570039-025-AC-F.pdf; 2RAppendicesGC-C(2)-#057039-025-AC-F.pdf; FINLNOT1#0570039-025-F.pdf; LTR-CERTIFICATE OF SERVICE#0570039-025-f.pdf

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

Adams, Patty

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

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: '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).

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

From: Byron Burrows [mailto:btburrows@tecoenergy.com]
Sent: Wednesday, November 01, 2006 4:09 PM
To: Harvey, Mary
Cc: Sharon Good
Subject: Re: Permit #0570039-AC-F

This is to verify receipt of the referenced documents.

Thanks,

Byron

Byron T. Burrows, P.E. BCEE
Manager, Air Programs
Tampa Electric Company
Ph - 813.228.1282
Mob - 813.230.3445
Fax - 813.228.1308
btburrows@tecoenergy.com

>>> "Harvey, Mary" <Mary.Harvey@dep.state.fl.us> 10/31/06 4:30:57 PM >>>

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

11/2/2006

Adams, Patty

From: Harvey, Mary
Sent: Wednesday, November 01, 2006 8:58 AM
To: Adams, Patty
Subject: FW: Permit #0570039-AC-F

From: Karen Sheffield [mailto:kasheffield@tecoenergy.com]
Sent: Wednesday, November 01, 2006 8:23 AM
To: Harvey, Mary
Cc: Byron Burrows
Subject: Re: Permit #0570039-AC-F

This is to verify receipt of the subject permit e-mail and attached documents.

>>> "Harvey, Mary" <Mary.Harvey@dep.state.fl.us> 10/31/2006 4:30 PM >>>

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

Adams, Patty

From: Harvey, Mary
Sent: Wednesday, November 01, 2006 8:47 AM
To: Adams, Patty
Subject: FW: Permit #0570039-AC-F

From: Sims, Jeff [<mailto:SimsJ@epchc.org>]
Sent: Wednesday, November 01, 2006 8:32 AM
To: Harvey, Mary
Subject: Read: Permit #0570039-AC-F

Your message

To: SimsJ@epchc.org
Subject:

was read on 11/1/2006 8:32 AM.