

Memorandum

Florida Department of Environmental Protection

TO: Trina Vielhauer, Bureau of Air Regulation
THROUGH: Jon Holtom, Title V Section *JH*
FROM: Andrew Bass, Title V Section *AB*
DATE: January 13, 2011
SUBJECT: Draft/Proposed Title V Permit No. 0570039-045-AV
Tampa Electric Company (TEC), Big Bend Station
Title V Permit Revision

Attached for your review are the following items:

- Written Notice of Intent to Issue Air Permit;
- Public Notice of Intent to Issue Air Permit;
- Title V Statement of Basis;
- Draft/proposed Title V Permit; and,
- P.E. Certification.

The draft/proposed Title V permit revises the recently renewed Title V permit for the Big Bend Station, which is located in Hillsborough County, Florida. The Statement of Basis provides a summary of the project and the rationale for issuance. The P.E. certification briefly summarizes the proposed project.

The application was received on May 18, 2010 and deemed complete on November 1, 2010. Day 90 is January 30, 2011. There is no ongoing/open enforcement case for this facility, as informed to us by the Environmental Protection Commission.

I recommend your approval of the attached draft/proposed permit.

Attachments

P.E. CERTIFICATION STATEMENT

PERMITTEE

Tampa Electric Company
P. O. Box 111
Tampa, Florida 33601-0111

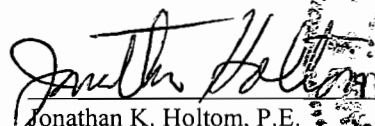
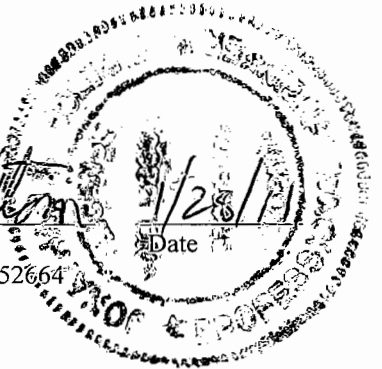
Permit No. 0570039-045-AV
Facility ID No. 0570039
Big Bend Station
Title V Permit Revision
Hillsborough County, Florida

PROJECT DESCRIPTION

The purpose of this permitting project is to revise the existing Title V air operation permit (0570039-039-AV) for the above referenced facility. This revision includes the addition of construction permits 0570039-040-AC and 0570039-041-AC.

This permit incorporates the addition of a new railcar coal unloading and conveying system and the addition of two simple cycle combustion turbine (SCCT) peaking units, with one associated electrical generator, and one emergency diesel engine/generator set into the existing facility. It also removes the old Combustion Turbine No. 1 from the existing Title V air operation permit and adds magnesium oxide as a method of operation to the boilers for emission units 1, 2, 3 and 4.

***I HEREBY CERTIFY** that the air pollution control 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, geological, and meteorological features).*


Jonathan K. Holtom, P.E.
Registration Number: 0052664
Date: 1/28/11




Florida Department of Environmental Protection

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

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard, Jr.
Secretary

Electronic Mail – Received Receipt Requested

Mr. Ronald D. Bishop
Director
Big Bend Station
Tampa Electric Company (TEC)
P.O. Box 111
Tampa, Florida 33601-0111

Re: Title V Permit Revision No. 0570039-045-AV
Big Bend Station
Title V Permit Revision

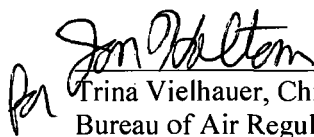
Dear Mr. Bishop:

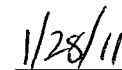
Enclosed is the draft/proposed permit package to revise the Title V air operation permit for the Big Bend Station. This facility is located at Big Bend Road, North Ruskin, in Hillsborough County, Florida. The permit package includes the following documents:

- The Statement of Basis, which summarizes the facility, the equipment, and the primary rule applicability.
- The draft/proposed Title V air operation permit revision, which includes the specific permit conditions that regulate the emissions units covered by the proposed project.
- The Written Notice of Intent to Issue Air Permit provides important information regarding: the Permitting Authority's intent to issue an air permit for the proposed project; the requirements for publishing a Public Notice of the Permitting Authority's intent to issue an air permit; the procedures for submitting comments on the draft/proposed permit; the process for filing a petition for an administrative hearing; and the availability of mediation.
- The Public Notice of Intent to Issue Air 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. The Public Notice of Intent to Issue Air Permit must be published as soon as possible and the proof of publication must be provided to the Department within seven days of the date of publication. Because this permit is being processed as a combined draft/proposed permit in order to reduce processing time, a duplicate copy of the proof of publication must also be transmitted by electronic mail within seven days of the date of publication to Ms. Ana Oquendo at EPA Region 4 at the following address: oquendo.ana@epamail.epa.gov.

If you have any questions, please contact the Project Engineer, Andrew Bass, by telephone at (850) 717-9080 or by email at andrew.bass@dep.state.fl.us.

Sincerely,


Trina Vielhauer, Chief
Bureau of Air Regulation


Date

Enclosures
TLV/jkh/adb

WRITTEN NOTICE OF INTENT TO ISSUE REVISED TITLE V AIR OPERATION PERMIT

*In the Matter of an
Application for Title V Air Operation Permit by:*

Tampa Electric Company (TEC)
Big Bend Station
P.O. Box 111
Tampa, Florida 33601-0111

Permit No. 0570039-045-AV
Facility ID No. 0570039
Big Bend Station
Title V Air Operation Permit Revision
Hillsborough County, Florida

Responsible Official:
Ronald D. Bishop, Director

Facility Location: Tampa Electric Company (TEC) operates the existing Big Bend Station, which is located at Big Bend Road, North Ruskin, in Hillsborough County, Florida.

Project: The purpose of this permitting project is to revise the existing Title V air operation permit (0570039-039-AV) for the above referenced facility. This revision includes the addition of construction permits 0570039-040-AC and 0570039-041-AC.

This permit incorporates the addition of a new railcar coal unloading and conveying system and the addition of two simple cycle combustion turbine (SCCT) peaking units, with one associated electrical generator, and one emergency diesel engine/generator set into the existing facility. It also removes the old Combustion Turbine No. 1 from the existing Title V air operation permit and adds magnesium oxide as a method of operation to the boilers for emission units 1, 2, 3 and 4.

Permitting Authority: Applications for Title V air operation permits for facilities that contain Acid Rain units are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

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 draft/proposed Title V air operation permit, the Statement of Basis, 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/proposed permit by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue a Title V air operation permit revision to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment 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, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft/proposed permit unless a response received in accordance with the following procedures results in a different decision or a significant change of terms or conditions.

WRITTEN NOTICE OF INTENT TO ISSUE REVISED TITLE V AIR OPERATION PERMIT

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 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 the above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed permit, the Permitting Authority shall issue a revised draft/proposed permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

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 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air 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 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 (in a proceeding initiated by another party) 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 when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all

WRITTEN NOTICE OF INTENT TO ISSUE REVISED TITLE V AIR OPERATION PERMIT

disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; 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 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.

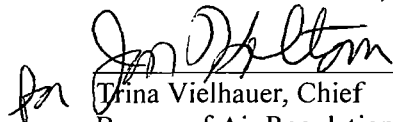
Mediation: Mediation is not available in this proceeding.

EPA Review: EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period, provided that the applicant also transmits an electronic copy of the required proof of publication directly to EPA at the following email address:

okuendo.ana@epamail.epa.gov. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

Executed in Tallahassee, Florida.


Trina Vielhauer, Chief
Bureau of Air Regulation

WRITTEN NOTICE OF INTENT TO ISSUE REVISED TITLE V AIR OPERATION PERMIT

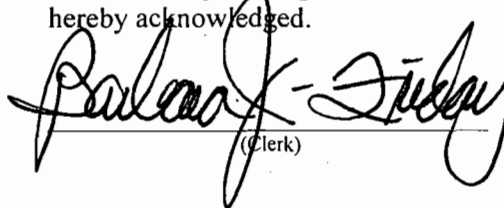
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Title V Air Operation Permit Revision (including the Public Notice, the Statement of Basis, and the draft/proposed Title V permit), or a link to these documents available electronically on a publicly accessible server was sent by electronic mail with received receipt requested before the close of business on 1/28/11 to the persons listed below.

Mr. Ronald D. Bishop, Director, TEC Big Bend Station: rdbishop@tecoenergy.com
Mr. Paul L. Carpinone, Designated Representative, TEC: plcarpinone@tecoenergy.com
Mr. Byron T. Burrows, P.E., Manager-Air Programs EHS, TEC: btburrows@tecoenergy.com
Ms. Julie Ward, Engineer-Air Programs EHS, TEC: jmward@tecoenergy.com
Mr. Thomas W. Davis, P.E., ECT: tdavis@ectinc.com
Ms. Diana M. Lee, P.E., EPCHC: lee@epchc.org
Ms. Cindy Zhang-Torres, P.E., DEP SWD: zhang-torres@dep.state.fl.us
Ms. Katy R. Forney, U.S. EPA Region 4: forney.kathleen@epa.gov
Mr. Mike Halpin, P.E., DEP Siting: michael.halpin@dep.state.fl.us
Ms. Ana Oquendo-Vazquez, U.S. EPA Region 4: oquendo.ana@epa.gov
Ms. Barbara Friday, DEP BAR: barbara.friday@dep.state.fl.us (for posting with U.S. EPA, Region 4)
Ms. Victoria Gibson, DEP BAR: victoria.gibson@dep.state.fl.us (for reading file)

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.


(Clerk) 1/28/11
(Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft/Proposed Permit No. 0570039-045-AV
Tampa Electric Company (TEC)
Big Bend Station
Hillsborough County, Florida

Applicant: The applicant for this project is Tampa Electric Company. The applicant's responsible official and mailing address are: Mr. Ronald D. Bishop, Director, Big Bend Station, Tampa Electric Company, P. O. Box 111, Tampa, Florida 33601-0111.

Facility Location: The applicant operates the existing Big Bend Station, which is located at Big Bend Road, North Ruskin, in Hillsborough County, Florida.

Project: The applicant applied on June 7, 2010 to the Department for a Title V air operation permit revision. This is a revision of Title V air operation permit No. 0570039-039-AV. This existing facility consists of four fossil fuel fired steam generators, Boiler Unit Nos. 1 through 4; four steam turbines; one simple-cycle combustion turbine (CT), CT No. 1; solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities; and, fuel oil storage tanks.

The purpose of this permitting project is to revise the existing Title V air operation permit (0570039-039-AV) for the above referenced facility. This revision includes the addition of construction permits 0570039-040-AC and 0570039-041-AC.

This permit incorporates the addition of a new railcar coal unloading and conveying system and the addition of two simple cycle combustion turbine (SCCT) peaking units, with one associated electrical generator, and one emergency diesel engine/generator set into the existing facility. It also removes the old Combustion Turbine No. 1 from the existing Title V air operation permit and adds magnesium oxide as a method of operation to the boilers for emission units 1, 2, 3 and 4.

Permitting Authority: Applications for Title V air operation permits which contain Acid Rain units are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210, 62-213 and 62-214 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and a Title V air operation permit is required to operate the facility. The Department of Environmental Protection's Air Resource Section in the Bureau of Air Regulation is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida 32301. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

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 draft/proposed permit, the statement of basis, 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 permit by visiting the following website: <http://www.dep.state.fl.us/air/emission/apds/default.asp> and entering the permit number shown above. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue a draft/proposed Title V air operation permit revision to the applicant for the project described above. The applicant has provided reasonable assurance that continued operation of the existing equipment 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, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in

(Public Notice to be Published in the Newspaper)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

accordance with the conditions of the draft/proposed 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 draft/proposed Title V air operation permit for a period of 30 days from the date of publication of the Public Notice. Written comments must be received by the close of business (5:00 p.m.), on or before the end of this 30-day period by the Permitting Authority at the above address. As part of his or her comments, any person may also request that the Permitting Authority hold a public meeting on this permitting action. If the Permitting Authority determines there is sufficient interest for a public meeting, it will publish notice of the time, date, and location in the Florida Administrative Weekly (FAW). If a public meeting is requested within the 30-day comment period and conducted by the Permitting Authority, any oral and written comments received during the public meeting will also be considered by the Permitting Authority. If timely received written comments or comments received at a public meeting result in a significant change to the draft/proposed permit, the Permitting Authority shall issue a revised draft/proposed permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection. For additional information, contact the Permitting Authority at the above address or phone number.

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 14 days of publication of the 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 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 (in a proceeding initiated by another party) 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 when and how the petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; 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 to Issue Air 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.

(Public Notice to be Published in the Newspaper)

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Mediation: Mediation is not available for this proceeding.

EPA Review: EPA has agreed to treat the draft/proposed Title V air operation permit as a proposed Title V air operation permit and to perform its 45-day review provided by the law and regulations concurrently with the public comment period, provided that the applicant also transmits an electronic copy of the required proof of publication directly to EPA at the following email address: ouquendo.ana@epamail.epa.gov. Although EPA's 45-day review period will be performed concurrently with the public comment period, the deadline for submitting a citizen petition to object to the EPA Administrator will be determined as if EPA's 45-day review period is performed after the public comment period has ended. The final Title V air operation permit will be issued after the conclusion of the 45-day EPA review period so long as no adverse comments are received that result in a different decision or significant change of terms or conditions. The status regarding EPA's 45-day review of this project and the deadline for submitting a citizen petition can be found at the following website address: <http://www.epa.gov/region4/air/permits/Florida.htm>.

Objections: Finally, pursuant to 42 United States Code (U.S.C.) Section 7661d(b)(2), any person may petition the Administrator of the EPA within 60 days of the expiration of the Administrator's 45-day review period as established at 42 U.S.C. Section 7661d(b)(1), to object to the issuance of any Title V air operation permit. Any petition shall be based only on objections to the permit that were raised with reasonable specificity during the 30-day public comment period provided in the Public Notice, unless the petitioner demonstrates to the Administrator of the EPA that it was impracticable to raise such objections within the comment period or unless the grounds for such objection arose after the comment period. Filing of a petition with the Administrator of the EPA does not stay the effective date of any permit properly issued pursuant to the provisions of Chapter 62-213, F.A.C. Petitions filed with the Administrator of EPA must meet the requirements of 42 U.S.C. Section 7661d(b)(2) and must be filed with the Administrator of the EPA at: U.S. EPA, 401 M Street, S.W., Washington, D.C. 20460. For more information regarding EPA review and objections, visit EPA's Region 4 web site at <http://www.epa.gov/region4/air/permits/Florida.htm>.

STATEMENT OF BASIS

Tampa Electric Company (TECO), Big Bend Station
Title V Operation Permit Revision
Project No. 0570039-045-AV

APPLICANT

The applicant for this project is Tampa Electric Company. The applicant's responsible official and mailing address are: Mr. Ronald D. Bishop, Director, Tampa Electric Company, Big Bend Station, P.O. Box 111, Tampa, Florida 33601-0111.

FACILITY DESCRIPTION

The applicant operates the existing Big Bend Station, which is located in Hillsborough County at Big Bend Road, North Ruskin, Florida.

This existing facility consists of four fossil fuel fired steam generators, Boiler Unit Nos. 1 through 4; four steam turbines; one simple-cycle combustion turbine (CT), CT No. 1; solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities; and, fuel oil storage tanks.

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PROCESSING SCHEDULE AND RELATED DOCUMENTS

Application for a Title V Air Operation Permit Revision received on May 18, 2010.
Application to incorporate Permit No. 0570039-041-AC received on June 7, 2010.
Request to include supplemental injection of magnesium oxide as a method of operation received June 23, 2010.
Requests for Additional Information sent via e-mails on June 10, 2010.
Additional Information Response received September 9, 2010.
Clarification e-mails sent and received on September 30, October 1, 4 and 14, 2010.
Request to add delivery of petcoke by rail as an alternate method of operation received October 25, 2010.
Clarification e-mails sent and received on October 25, 29 and November 1, 2010.
Application deemed complete on November 1, 2010.
Draft/Proposed Permit posted onto web site on January 28, 2011.
Public Notice published on Month day, 2011.
Notification to U.S. EPA Region 4 of Publication of Public Notice on Month day, year.

PRIMARY REGULATORY REQUIREMENTS

Title III: This facility is a major source of hazardous air pollutants (HAP), based on the Title V air operation permit renewal application received on June 6, 2008.

NESHAP: This facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 Code of Federal Regulations (CFR) 63.

Title IV: This facility operates units subject to the Acid Rain provisions of the Clean Air Act.

Title V: This facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

STATEMENT OF BASIS

PSD: This facility is a Prevention of Significant Deterioration (PSD)-major source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: This facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

CAIR: This facility operates units subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

Siting: Unit 4 was originally certified pursuant to the power plant siting provisions of Chapter 62-17, F.A.C. (Power Plant Siting Certification PA 79-12).

CAM: Compliance Assurance Monitoring (CAM) applies to emissions units at this facility. CAM applies to particulate matter (PM) emissions from Unit 1, 2, 3 and 4. Unit 1, 2, 3 and 4 each use an electrostatic precipitator (ESP) to control PM emissions. The other emissions units at the facility are not subject to CAM for one or more of the following reasons: they do not trigger the pre-air pollution control device major source emission thresholds; they demonstrate continuous compliance with a continuous emission monitoring system (CEMS); or, they are not equipped with air pollution control devices.

PROJECT REVIEW

The purpose of this permitting project is to revise the existing Title V air operation permit (0570039-039-AV) for the above referenced facility. This revision: includes the addition of construction permits 0570039-040-AC and 0570039-041-AC; removes Combustion Turbine No. 1 from the existing Title V air operation permit; adds magnesium oxide as a method of operation to the boilers for EU 1, 2, 3 and 4; adds the ability to receive petcoke by rail as an alternate method of operation; and makes clarifications to the portions of the permit that regulate the emissions units that comprise the fuel yard. Changes to the permit made as part of this revision are shown in ~~strike through format~~ for deletions and in double underline format for additions. For ease of identification, all changes have been highlighted in yellow within the permit document.

Based on the applicant's requests, the following changes have been made to the permit:

- 1) Magnesium Oxide has been added as a method of operation for the boilers (EU ID Nos. -001, -002, -003 and -004) in Specific Conditions **A.4.(f)** and **B.4.(f)**. The existing paragraphs (f) have been renumbered to (g).
f. Other Operation – Magnesium Oxide. Supplemental injection of liquid magnesium oxide as needed to reduce upper furnace pluggage.
g.f.
- 2) Combustion Turbine No. 1 (CT#1, EU ID No. -007) was last fired in July 2007 and was dismantled on 10/26/2010. Therefore, CT #1 is being removed from the permit through the deletion of Section III., Subsection C., as required by permit No. 0570039-040-AC, Specific Condition III.1. Section III., Subsection C. is now shown as "Reserved".
- 3) Addition of two new simple cycle combustion turbine (SCCT) peaking units (EU ID Nos. -041 & -042) from Permit No. 0570039-040-AC. The requirements and limitations contained in the construction permit have been incorporated into the permit in the new Section III., Subsection O. In addition, a new Appendix CEMS for EU 41 and 42 and Appendix 40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines have been added to the Appendices section of the permit. Also, at the applicant's request, the allowance to exclude excess emissions due to tuning is added in Specific Condition **O.15.d.** pursuant to the authority of Rules 62-210.700(5) and 62-213.440, F.A.C., as it is preferable to allow short periods of excess emissions during a tuning activity rather than experiencing long periods of higher emissions from a poorly tuned unit. This provision is only effective for the duration of this Title V permit and will need to be re-requested upon renewal. To become a permanent provision, it should be added to the underlying construction permit for these units at some point in the future if that construction permit is opened for revision.

STATEMENT OF BASIS

- 4) The current permit contains requirements for the solid fuel yard in Section III., Subsection H., with a reference to **Appendix F, Solid Fuel Yard Fugitives - Emissions Points** for a listing of all of the different emissions points that comprise Emissions Unit ID Nos. -010, -029 and -030. As the facility has grown over the years, this list of emissions points has grown. However, being permitted at different times, some of the requirements are different for the different points. To help clarify which points are subject to which requirements, some of the emissions points have been removed from EU ID No. -010, have been listed in new Section III., Subsections Q. and R., and have been given new EU ID Nos. of -046 (trans-loading operations) and -047 (railcar unloading and conveying system) and Appendix F has been deleted from the permit. Also, EU ID Nos. -029 and -030 have been moved from Section III, Subsection H to new Section III, Subsection P. The descriptions of the emissions points that were contained within Appendix F have been moved to the emissions unit descriptions for EU ID Nos. -010, -046 and -047 and the existing Section III., Subsection H. has been completely replaced by new Subsections H., P., Q and R. (Please refer to the draft/proposed permit for the detailed changes.)
- 5) The requirements contained in permit No. 0570039-041-AC, which authorized the construction of a railcar unloading and conveying system, are being added to the permit to authorize on-going commercial operation. The construction permit added the emissions points associated with the railcar unloading operations to existing emissions unit ID No. -010 for material handling operations. In order to help clarify which of the material handling operations are subject to which limitations, the railcar operations and emissions point are being removed from EU ID. -010 and added to the permit as EU ID No. -047 in a new Section III., Subsection R. (Please refer to the draft/proposed permit for the detailed changes.)
- 6) Construction permit No. 0570039-043-AC SCCT 4, regarding fuel oil sulfur content, is now obsolete and will not be added to the permit revision.

For clarification purposes, the following administrative changes have been made to the permit:

- 7) The Table of Contents has been updated to reflect the new sections and new emissions units.
- 8) The Summary of Emissions Units in Section I, Subsection B. has been updated to reflect additions and deletions.
- 9) The list of Applicable Requirements in Section I, Subsection C. has been updated.
- 10) The subparagraphs of Specific Condition **A.58.** has been renumbered for consistency within the permit.
- 11) The rule citation in Specific Condition **D.3.** was revised to reflect the correct applicable requirement.

CONCLUSION

This project revises Title V air operation permit No. 0570039-039-AV, which was effective January 1, 2010. This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C.

Tampa Electric Company

Big Bend Station

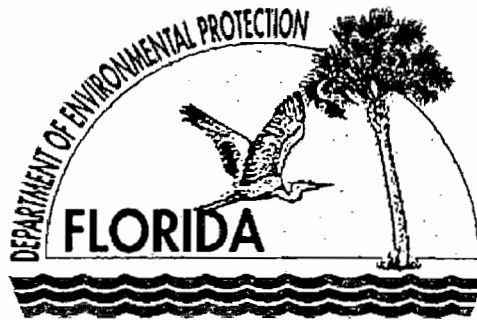
Facility ID No. 0570039

Hillsborough County

Title V Air Operation Permit Revision

Draft/Proposed Permit No. 0570039-045-AV

(1st Revision of Title V Air Operation Permit No. 0570039-039-AV)



Permitting Authority

State of Florida

Department of Environmental Protection

Division of Air Resource Management

Bureau of Air Regulation

Title V Section

Mail Station #5505

2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Telephone: 850/717-9000

Fax: 850/717-9097

Compliance Authority

Environmental Protection Commission of Hillsborough County

3629 Queen Palm Drive

Tampa, Florida 33619

Telephone: 813/627-2600

Fax: 813/627-2660

Title V Air Operation Permit Revision

Permit No. 0570039-045-AV

Table of Contents

<u>Section</u>	<u>Page Number</u>
Placard Page.	1
I. Facility Information.	I-2
A. Facility Description.	
B. Summary of Emissions Units.	
C. Applicable Requirements.	
II. Facility-wide Conditions.	II-16
III. Emissions Units and Conditions.	
A. E.U. ID Nos. -001, -002 & -003: Steam Generators Units Nos. 1, 2, & 3.	<u>III-A-18</u>
B. E.U. ID Nos. -004: Steam Generator Unit No. 4.	<u>III-B-120</u>
C. E.U. ID Nos. -007: Combustion Turbine. (Reserved).	<u>III-C-130</u>
D. E.U. ID Nos. -008, -018, -009, -019 & -026: Flyash Handling and Storage - Silo Nos. 1 & 2.	<u>III-D-133</u>
E. E.U. ID Nos. -014, -027 & -028: Flyash Handling and Storage - Silo No. 3.	<u>III-E-136</u>
F. E.U. ID Nos. -011, -012, -013, -023, -025, -020 & -021: Limestone Handling and Storage.	<u>III-F-138</u>
G. E.U. ID Nos. -015, -016, -017 & -039: Coal Bunkers with Roto-Clones.	<u>III-G-142</u>
H. E.U. ID Nos. -010, -029 & -030: Solid Fuel Yard.	<u>III-H-144</u>
I. E.U. ID Nos. -032: Surface Coating of Miscellaneous Metal Parts.	<u>III-I-153</u>
J. E.U. ID Nos. -033 & -034: Abrasive Blasting.	<u>III-J-156</u>
K. E.U. ID Nos. -035: Surface Coating of Ships.	<u>III-K-158</u>
L. E.U. ID Nos. -022: Lime Silo for Wastewater Treatment Plant for the Chloride Bleed Stream. ..	<u>III-L-159</u>
M. E.U. ID Nos. -037 & -038: Coal Residual Storage and Transfer.	<u>III-M-161</u>
N. E.U. ID Nos. -043 & -044: Diesel Generators (Engines).	<u>III-N-163</u>
<u>O. E.U. ID Nos. -041 & -042: Simple-Cycle Combustion Turbines.</u>	<u>66</u>
<u>P. E.U. ID Nos. -029 & -030: Solid Fuel Blending and Milling.</u>	<u>75</u>
<u>Q. E.U. ID No. -046: Transloading and Off-site Transfer of Coal and Petcoke.</u>	<u>78</u>
<u>R. E.U. ID No. -047: Railcar Unloading and Conveying System.</u>	<u>81</u>
IV. Acid Rain Part.	
A. Phase II Acid Rain SO ₂ Application/Compliance Plan.	<u>IV-A-184</u>
B. Phase II Acid Rain NO _x Application/Compliance Plan.	<u>IV-B-189</u>
V. Clean Air Interstate Rule (CAIR) Part.	
A. E.U. ID Nos. -001, -002, -003 & -004: Steam Generators Units Nos. 1, 2, 3 & 4.	<u>V-A-196</u>
B. Retired Unit Exemptions, E.U. ID Nos. -005 & -006: Combustion Turbine Nos. 2 & 3.	<u>V-B-1102</u>
VI. Appendices.	<u>VI-111</u>
Appendix A, Glossary.	
Appendix BOP, Best Operational Practices for Start up and Shutdown.	
Appendix CAM, Compliance Assurance Monitoring Plan.	
Appendix CD, Consent Decree (U.S. EPA vs. TECO).	
Appendix CEMS.	
<u>Appendix CEMS for E.U. ID Nos. -041 and -042.</u>	
Appendix CFJ, Consent Final Judgment (DEP vs. TECO).	

Appendix CP-1 Compliance Plan.

Appendix 40 CFR 60, Subpart A, General Provisions.

Appendix 40 CFR 60, Subpart Da, Standards of Performance for Fossil-Fuel Fired Steam Generators.

Appendix 40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines.

Appendix 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

Appendix 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

Appendix 40 CFR 63, Subpart A, General Provisions.

Appendix 40 CFR 63, Subpart II, National Emission Standards for Shipbuilding and Ship Repair (Surface Coating).

Appendix 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

~~Appendix F, Solid Fuel Yard Fugitives Emissions Points.~~

Appendix I, List of Insignificant Emissions Units and/or Activities.

Appendix O&M, Operation and Maintenance Plan under RACT for PM.

Appendix RR, Facility-wide Reporting Requirements.

Appendix TR, Facility-wide Testing Requirements.

Appendix TV, Title V General Conditions.

Appendix U, List of Unregulated Emissions Units and/or Activities.

Referenced Attachments. At End

Table 1, Summary of Air Pollutant Standards and Terms.

Table 2, Compliance Requirements.

Table H, Permit History.

DRAFT/PROPOSED PERMIT

PERMITTEE:

Tampa Electric Company
Big Bend Station
13031 Wyandotte Road
Apollo Beach, Florida 33572-9200

Permit No. 0570039-045-AV
Facility ID No. 0570039
SIC No. 4911
Project: Title V Air Operation Permit Revision

The purpose of this permit is to revise Title V air operation permit No. 0570039-039-AV for the Big Bend Station to incorporate the terms and conditions of air construction permit Nos. 0570039-040-AC and 0570039-041-AC, which authorized the construction of two simple-cycle combustion turbines and a railcar solid fuel unloading system, respectively. This existing facility is located in Hillsborough County at Big Bend Road, North Ruskin. UTM Coordinates: Zone 17, 361.9 km East and 3075.0 km North; Latitude: 27° 47' 36" North and Longitude: 82° 24' 11" West.

This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to perform the work or operate the facility in accordance with the terms and conditions of this permit.

0570039-039-AV Renewal Effective Date: January 1, 2010
0570039-045-AV Revision Effective Date: MM/DD/YY
Renewal Application Due Date: May 20, 2014
Expiration Date: December 31, 2014

(Draft/Proposed)

Trina Vielhauer, Acting Director
Division of Air Resource Management

TLV/jkh/adb

SECTION I. FACILITY INFORMATION.

Subsection A. Facility Description.

The Big Bend Station is a nominal 2,028 megawatt (MW) electric generation facility. This facility consists of four fossil fuel fired steam generators, Boiler Unit Nos. 1 through 4; four steam turbines; one simple-cycle combustion turbine (CT), CT No. 1; solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities; and, fuel oil storage tanks. Unit Nos. 1, 2, 3 and 4 have nominal maximum heat inputs of 4037, 3996, 4115 and 4330 million British thermal units (Btu) per hour, respectively. Unit Nos. 1 through 4 are fired with coal and with petcoke in a mixture with coal up to 20.0% petcoke/80.0% coal (by weight), or a coal blended with coal residual generated from the Polk Power Station, or a coal/petroleum coke blend further blended with coal residual generated from the Polk Power Station. The combustion turbine is fired with No. 2 distillate fuel oil. In addition, there is a ship surface coating operation. Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Subsection B. Summary of Emissions Units.

E.U. ID No.	Brief Description
<i>Regulated Emissions Units</i>	
<i>Fossil Fuel Fired Steam Generator Units</i>	
-001	Fossil Fuel Fired Steam Generator Unit No. 1
-002	Fossil Fuel Fired Steam Generator Unit No. 2
-003	Fossil Fuel Fired Steam Generator Unit No. 3
-004	Fossil Fuel Fired Steam Generator Unit No. 4
<i>Combustion Turbine</i>	
-007	Combustion Turbine No. 1
<i>Solid Fuel Yard</i>	
-010	Solid Fuel Yard Fugitive Emissions
-029	Fuel Blending Bin Cyclone Collectors (FH-032 through FH-035)
-030	Fuel Mill Cyclone Collectors (FH-048 and FH-049)
-046	Transloading and Off-site Transfer
-047	Railcar Unloading and Conveying System
<i>Coal Bunkers with Roto-Clones</i>	
-015	Unit No. 1 Coal Bunker with Roto-Clone
-016	Unit No. 2 Coal Bunker with Roto-Clone
-017	Unit No. 3 Coal Bunker with Roto-Clone
-039	Unit No. 4 Coal Bunker with Roto-Clone
<i>Flyash Handling and Storage - Silo Nos. 1 & 2</i>	
-008	Fly Ash Silo No. 1 Baghouse
-018	Fly Ash Silo No. 1 Truck Loadout
-009	Fly Ash Silo No. 2 Baghouse
-019	Fly Ash Silo No. 2 Truck Loadout
-026	Fly Ash Handling and Storage Fugitive Emissions (all except silos)
<i>Flyash Handling and Storage - Silo No. 3</i>	
-014	Fly Ash Silo No. 3 Baghouse

SECTION I. FACILITY INFORMATION.

E.U. ID No.	Brief Description
-027	Fly Ash Silo No. 3 Truck Loadout
-028	Fly Ash Handling System Fugitive Emissions
	<i>Limestone Handling and Storage</i>
-011	Truck Limestone Unloading Receiving Hopper
-012	Limestone Silo A with 2 Baghouses
-013	Limestone Silo B with 2 Baghouses
-023	Limestone Handling Conveyor LB to Conveyor LC with Baghouse
-023	Limestone Handling Conveyor LD to Conveyor LE with Baghouse
-025	Limestone Storage and Handling Fugitive Emissions
	<i>Limestone Handling for FGD System for Units 1 & 2</i>
-020	Drops from Limestone Conveyors LE, LF and LG and Silo C Belt Feeder with Baghouse
-021	Silo C with one Baghouse
	<i>Wastewater Treatment Plant</i>
-022	Lime Silo for Wastewater Treatment Plant with one Baghouse
	<i>Abrasive Blasting</i>
-033	Abrasive Blast Booth with Baghouse
-034	Abrasive Blast Media Storage with Baghouse
-032	Surface Coating of Miscellaneous Metal Parts
	<i>Surface Coating Operations</i>
-035	Surface Coating of Ships
	<i>Coal Residual Storage and Transfer from the Polk Power Station</i>
-037	Coal Residual Storage Facility
-038	Coal Residual Transfer System
	<i>Simple-Cycle Combustion Turbines</i>
<u>-041</u>	<u>SCCT 4A with a common electric generator that it shares with SCCT 4B</u>
<u>-042</u>	<u>SCCT 4B with a common electric generator that it shares with SCCT 4A</u>
	<i>Engines</i>
-043	Diesel Emergency Black Start Generator, 800 kW
-044	Coal Field Diesel Generator
<i>Unregulated Emissions Units and/or Activities</i>	
-036	Slag and Bottom Ash Sources BH-001 through BH-004
-036	Gypsum Handling and Storage Sources GH-001 through GH-017
-036	No. 2 Fuel Oil Storage Tanks > 550 gallons
-036	Vehicle Refueling Operations
-045	Emergency Diesel Generator and Fire Pump Diesel Engine

SECTION I. FACILITY INFORMATION.

Subsection C. Applicable Requirements.

Based on the Title V air operation permit renewal application received on June 6, 2008, this facility is a major source of hazardous air pollutants (HAP). This facility is classified as a Prevention of Significant Deterioration (PSD) major facility. A summary of important applicable requirements is shown in the following table.

Applicable Requirement/Regulation	E.U. ID No(s).
<i>Federal Rule Citations</i>	
40 CFR 60, Subpart A, New Stationary Source Performance Standards (NSPS) General Provisions	-004, -020 & -021
NSPS - 40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978	-004
40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants	-020 & -021
<u>40 CFR 60, Subpart KKKK (Standards of Performance for Stationary Combustion Turbines for which Construction is Commenced after February 18, 2005)</u>	<u>-041 & -042</u>
40 CFR 63, Subpart A, National Emissions Standards for Hazardous Air Pollutants (NESHAP) General Provisions	-035 & -044
Appendix 40 CFR 63, Subpart II - National Emissions Standards for Hazardous Air Pollutants from Shipbuilding and Ship Repair (Surface Coating)	-035
40 CFR 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE) also referred to as the "RICE Maximum Achievable Control Technology (MACT)"	-044
40 CFR 64, Compliance Assurance Monitoring	-001, -002, -003 & -004
<i>State Rule Citations</i>	
<i>only by</i> Rule 62-210.300, F.A.C., Permits Required	-007 -008, -018, -009, -019 & -026 -037 & -038
Rule 62-212.400, F.A.C., Prevention of Significant Deterioration	-004, -010, -029 & -030
Rule 62-214, F.A.C., Acid Rain, Phase II SO ₂	-001, -002, -003 & -004
Rule 62-214, F.A.C., Acid Rain, Phase II NO _x	-001, -002, -003 & -004
Rule 62-296.405(1), F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input	-001, -002 & -003
Rule 62-296.405(2), F.A.C., Fossil Fuel Steam Generators with More than 250 million Btu per Hour Heat Input	-004
Rule 62-296.470, F.A.C., Clean Air Interstate Rule	-001, -002, -003 & -004
Rule 62-296.470, F.A.C., Clean Air Interstate Rule (CAIR) Retired Units	-005 & -006
Rule 62-296.500, F.A.C., Reasonably Available Control Technology (RACT) - Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO _x) Emitting Facilities	-032 & -035
Rule 62-296.513, F.A.C., RACT VOC - Surface Coating of Miscellaneous	-032

SECTION I. FACILITY INFORMATION.

Applicable Requirement/Regulation	E.U. ID No(s).
Metal Parts and Products	
Rule 62-296.700(2)(c), F.A.C., RACT PM - Exemption	-015, -016, -017, -022 & -039
Rule 62-296.700(6), F.A.C., RACT PM - O&M Plan	-001, -002, -003 & -004
Rule 62-296.711, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter (PM) - Materials Handling, Sizing, Screening, Crushing and Grinding Operations	-020 -021, -029 & -030
Rule 62-296.712, F.A.C., RACT PM - Miscellaneous Manufacturing Process Operations	-033 & -034
<i>Other Requirements</i>	
Consent Final Judgment (DEP vs. TECO) dated December 16, 1999 and Consent Decree (U.S. vs. TECO) dated February 29, 2000, including amendments.	-001, -002, -003 & -004

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Units -001, -002 & -003

Protection Commission of Hillsborough County upon request. No coal residual shall be fired in any Unit when the corresponding scrubber is not in operation.

f. Other Operation – Magnesium Oxide. Supplemental injection of liquid magnesium oxide as needed to reduce upper furnace pluggage.

g. Daily Log. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.

[Rules 62-4.160(2), 62-210.200, 62-213.410, 62-213.440(1) and 62-4.070(1) & (3), F.A.C.; and, Permit No. 0570039-012-AC.]

{Permitting note: "Flame stabilization" is defined as the use of new No. 2 fuel oil to stabilize a flame during times of unexpected poor coal quality or equipment failure such as coal piping pluggage. Flame stabilization due to poor coal quality occurs when coal is wet or does not provide the necessary heat to maintain a stable flame. In this situation, new No. 2 fuel oil is combusted to provide the additional required heat input to maintain a stable flame. Flame stabilization due to equipment failure occurs when coal piping is plugged, or equipment is otherwise damaged, that results in an inconsistent amount of coal reaching the burners. Under certain conditions, this may result in the burners intermittently seeing large amounts of fuel at one time, causing a potentially explosive flame "puff". In this situation, new No. 2 fuel oil must be used for stabilization to prevent flame "puffing" and ensure safe operation. Combustion of No. 2 fuel oil is also necessary during periods of load change to initialize and stabilize the flame until coal flow to the burners reaches steady state. As defined in 62-210.700(3), F.A.C., load change occurs when the operational capacity of a unit is in the 10 to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.}

Air Pollution Control Technologies and Measures

A.5. FGD Operation Required for Petcoke and Coal Residual. Whenever Unit Nos. 1 or 2 is fired with petcoke in any amount up to the allowable percentage, or any amount of coal residual, its flue gases shall be directed to the FGD system for Unit Nos. 1 and 2. [Permit Nos. 0570039-003-AC, 0570039-004-AC and 0570039-012-AC.]

A.6. Limit on Petcoke Bunkering. The owner or operator at any given time shall not bunker more than the amount of petcoke that may be fired in each emissions Unit No. 1 or No. 2 in one day. [0570039-003-AC and 0570039-004-AC]

{Permitting Note: This condition is intended to limit possible excess emissions in the event of an unexpected breakdown of the FGD system that requires its shutdown while either emissions unit is firing petcoke.}

A.7. Low NO_x Burners (LNB). Unit Nos. 1, 2 and 3 shall be operated using the low NO_x burners and in accordance with the operational procedures that have been developed to minimize NO_x emissions. [Permit No. 0570039-014-AC.]

A.8. Selective Catalytic Reduction (SCR) System. The permittee shall operate and maintain the selective catalytic reduction (SCR) systems for nitrogen oxides (NO_x) control on Unit Nos. 3 and 2. [Permit Nos. 0570039-022-AC (amended by 0570039-035-AC) and 0570039-024-AC.]

{Permitting Note: Selective catalytic reduction (SCR) systems have been or are being installed under the following schedule:

Unit No. 3 - started up on April 24, 2008, as authorized by Permit No. 0570039-022-AC;

Unit No. 2 - started up on April 30, 2009, as authorized by Permit No. 0570039-024-AC; and,

Unit No. 1 - to be installed in 2010, as authorized by Permit No. 0570039-024-AC.}

A.9. SCR System. The permittee shall operate and maintain each SCR system in accordance with the SCR system supplier's recommendations, including operating the SCR between minimum and maximum operating temperatures. [Rule 62-4.070(1) & (3), F.A.C.; and, Permit Nos. 0570039-022-AC (amended by 0570039-035-AC) and 0570039-024-AC.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection A. Emissions Units -001, -002 & -003

Recordkeeping and Reporting Requirements

A.55. Reporting Schedule. The following report shall be submitted to the Compliance Authority:

Report	Reporting Deadline(s)	Related Condition(s)
Quarterly Excess Emissions Rule 62-296.405(1)(g), F.A.C.	Every 3 months (quarterly)	A.57.
Quarterly SO ₂ Emissions	Every 3 months (quarterly)	A.58.
Quarterly NO _x Emissions	Every 3 months (quarterly)	A.59.

[Rule 62-296.405(1)(g), F.A.C.]

A.56. Reporting of Excess Emissions Due to Malfunctions. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department or the appropriate Local Program. [Rule 62-210.700(6), F.A.C.]

A.57. Quarterly Excess Emissions Report. Submit to the Department a written report of emissions in excess of emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excess emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file by the source for a period of five years. [Rules 62-213.440 and 62-296.405(1)(g), F.A.C.]

A.58. Quarterly SO₂ Report. The permittee shall submit a quarterly SO₂ report to the Department and the EPCHC within 30 days following each calendar quarter. The quarterly SO₂ report shall consist of:

- (1) a. 2-hour average SO₂ emissions for each Unit Nos. 1, 2 and 3 in lb/MMBtu;
- (2) b. 3-hour average SO₂ emissions for Unit Nos. 1 - 3 combined in ton per hour;
- (3) c. 24-hour average SO₂ emissions for Unit Nos. 1 - 3 combined in tons per hour; and,
- (4) d. 24-hour average SO₂ emissions for Unit Nos. 1 - 2 combined and Unit 3 in tons per hour;
- (5) e. daily SO₂ removal efficiency for Unit Nos. 1 - 3;
- (6) f. 30-day rolling average SO₂ emissions for each Unit Nos. 1 - 3 in lb/MMBtu; and,
- (7) g. a statement of CEMS and/or boiler malfunction, start-up, shutdown or abnormal events.

[Rules 62-213.440(1) (Monitoring) and 62-4.070(1) & (3), F.A.C.]

A.59. Quarterly NO_x Report. The permittee shall submit a quarterly NO_x report to the Department and the EPCHC within 30 days following each calendar quarter. This report shall contain the 30-day NO_x rolling average, all time periods of boiler operation as well as a statement of CEMS and/or boiler malfunction, start-up, shutdown or abnormal events. [Rules 62-296.405(1)(g) and 62-4.070(1) & (3), F.A.C.]

A.60. Records of Operation. The owner or operator shall make and maintain a daily record of operation of each emissions unit showing the date, fuel(s) used, whether flue gas was directed to the FGD system, and the duration of all startups, shutdowns and malfunctions. Records of fuel bunkering and petcoke usage (weight percent of petcoke fired) shall also be made on at least a daily basis. Data that verifies compliance with the percentage limitation on petcoke usage shall be submitted with the annual operating report. [Rules 62-213.440(1) (Monitoring) and 62-4.070(1) & (3), F.A.C.]

A.61. Records. For Unit Nos. 1 - 3, gravimetric instrument data verifying that the 20.0% maximum petroleum coke content by weight has not been exceeded shall be maintained for two years and submitted to the Department and the EPCHC with each annual operating report (AOR). Also to be maintained and available for inspection shall be a record of operation showing the date, fuel used, and the duration of all startups, shutdowns, malfunctions and abnormal events. [Rules 62-213.440(1) (Monitoring) and 62-4.070(1) & (3), F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection B. Emissions Unit -004

- b. Fuels - Startup, Shutdown, Flame Stabilization. In addition to the fuels allowed to be burned during normal operation, Unit No. 4 may also burn new No. 2 fuel during startup, shutdown, flame stabilization and during the start of an additional solid fuel mill on an already operating unit.
- c. Other Operation - Boiler Chemical Cleaning Waste. Evaporation of up to 150,000 gallons per year, total at the facility, is allowed of non-hazardous, but potentially hazardous air pollutant (HAP)-emitting, mineral acid solution boiler chemical cleaning waste which was generated on site.
- d. Other Operation - Beneficiated, or Refined, Coal Residual. Beneficiated, or refined, coal residual: The total amount of beneficiated, or refined, coal residual fired at Big Bend Station (all Unit Nos. 1 - 4 combined) shall be limited to 500 tons per day. The beneficiated, or refined, coal residual results from using the beneficiated process to wash and screen the raw coal residual to remove fines and oversized materials. This beneficiation process shall be performed at Polk Power Station, not Big Bend Station.
- e. Other Operation - Raw Coal Residual. Raw coal residual: The total amount of raw coal residual fired at Big Bend Station (all Unit Nos. 1 - 4 combined) shall be limited to 200 tons per day. The raw coal residual is a by-product of the gasification of coal at the Polk Power Station. The permittee shall only fire raw coal residual in the event of a significant beneficiation process malfunction. The permittee shall document all beneficiation process malfunctions and record the amount of raw coal residual, if any, fired at Big Bend Station. These records should be kept on site at Big Bend and made readily available to the Department and the Environmental Protection Commission of Hillsborough County upon request. No coal residual shall be fired in any Unit when the corresponding scrubber is not in operation.
- f. Other Operation – Magnesium Oxide. Supplemental injection of liquid magnesium oxide as needed to reduce upper furnace pluggage.

g. Daily Log. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.

[Rules 62-4.160(2), 62-210.200, 62-213.410, 62-213.440(1) and 62-4.070(1) & (3), F.A.C.; PSD-FL-040; Permit Nos. 0570039-012-AC and 0570039-016-AC; and, Power Plant Siting Certification PA 79-12.]

{Permitting note: "Flame stabilization" is defined as the use of No. 2 fuel oil to stabilize a flame during times of unexpected poor coal quality or equipment failure such as coal piping pluggage. Flame stabilization due to poor coal quality occurs when coal is wet or does not provide the necessary heat to maintain a stable flame. In this situation, No. 2 fuel oil is combusted to provide the additional required heat input to maintain a stable flame. Flame stabilization due to equipment failure occurs when coal piping is plugged, or equipment is otherwise damaged, that results in an inconsistent amount of coal reaching the burners. Under certain conditions, this may result in the burners intermittently seeing large amounts of fuel at one time, causing a potentially explosive flame "puff". In this situation, No. 2 fuel oil must be used for stabilization to prevent flame "puffing" and ensure safe operation. Combustion of No. 2 fuel oil is also necessary during periods of load change to initialize and stabilize the flame until coal flow to the burners reaches steady state. As defined in 62-210.700(3), F.A.C., load change occurs when the operational capacity of a unit is in the 10 to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.}

Air Pollution Control Technologies and Measures

- B.5. Operating Procedures.** Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment. [Permit No. 0570039-020-AC (amended by 0570039-026, -031 & -036-AC).]
- B.6. Circumvention.** The owner or operator shall not circumvent the air pollution control equipment nor operate the SCR system equipment in such a manner which would violate allowable emission rates stated herein, notwithstanding the SCR system supplier's recommendations. [Permit No. 0570039-020-AC (amended by 0570039-026, -031 & -036-AC); and, Rule 62-210.650, F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection C. Emissions Unit -007

Reserved.

~~This Subsection C. of the permit becomes obsolete upon SCCT 4A (E.U. ID No. 041) and SCCT 4B (E.U. ID No. 042) achieving commercial operation.~~

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
	<i>Combustion Turbine</i>
-007	Combustion Turbine No. 1

Combustion Turbine (CT) No. 1 is a self-contained combustion turbine generating unit. The unit is a pre-designed integrated simple cycle, single shaft, three-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil with a maximum sulfur content of 0.5 percent by weight and operated for intermittent peaking and emergency services only. Emissions are not controlled. The stack parameters for Combustion Turbine No. 1 are: height, 34 feet; diameter (rectangular), 9' x 11' feet; exit temperature, 930 degrees F; and, actual stack gas flow rate, 4,763,270 acfm. The generator nameplate capacity is 18 megawatts (MW). Unit No. 1 began commercial operation in 1969.

~~(Permitting note(s): CT No. 1 is regulated under Rule 62-210.300, F.A.C., Permits Required. This emissions unit is not regulated under 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines.)~~

Essential Potential to Emit (PTE) Parameters

- ~~C.1. Emissions Unit Shutdowns for PSD Preconstruction Review Purposes. Upon achieving commercial operation of SCCT 4A (E.U. ID No. 041) and SCCT 4B (E.U. ID No. 042), the existing CT No. 1 shall be shutdown for purposes of PSD preconstruction new source review and credible emissions usage. [Permit No. 0570039-040-AC.]~~
- ~~C.2. Hours of Operation. CT No. 1 shall not exceed 3650 hours of operation during any consecutive 12 months. [Rule 62-210.200 (Definitions - PTE), F.A.C.; and, Permit No. 0570039-006-AC.]~~
- ~~C.3. Not federally enforceable. Permitted Capacity. The maximum firing rate of the CT No. 1 is 1,240 gallons per hour when firing No. 2 fuel oil. [Rules 62-4.160(2) and 62-210.200 (Definitions - PTE), F.A.C.]~~
- ~~C.4. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]~~
- ~~C.5. Methods of Operation - Fuels. This combustion turbine shall only be fired on distillate (No. 2) fuel oil and only operated for intermittent peaking and emergency services. [Rule 62-213.410, F.A.C.; and, Applicant Request.]~~

Emission Limitations and Standards

Unless otherwise specified, the averaging time for Specific Condition C.5. is based on the specified averaging time of the applicable test method.

- ~~C.6. Visible Emissions. Visible emissions (VE) from the turbine shall not be equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.]~~
- ~~C.7. Not federally enforceable. Sulfur Dioxide - Sulfur Content. The sulfur content of the No. 2 fuel oil shall not exceed 0.5 percent, by weight. [Rule 62-213.440, F.A.C.; and, Applicant Request.]~~

Excess Emissions

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection C. Emissions Unit -007

~~C.8. 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.]~~

~~C.9. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]~~

Monitoring of Operations

~~C.10. Fuel Sulfur Monitoring. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor or the permittee upon each fuel delivery. [Rule 62-213.440, F.A.C.]~~

Test Methods and Procedures

~~C.11. Test Methods. Required tests shall be performed in accordance with the following reference method(s):~~

Method(s)	Description of Method(s) and Comment(s)
EPA Method 9	Visual Determination of the Opacity of Emissions

~~The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]~~

~~C.12. Fuel Sulfur Content. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 and ASTM D129-91, or the respective successor ASTM method(s). [Rules 62-213.440 and 62-297.440, F.A.C.]~~

~~C.13. Annual Compliance Test. Except as specified in Specific Condition C.14., during each federal fiscal year (October 1st to September 30th), this emissions unit shall be tested to demonstrate compliance with the emission limitations and standards for VE. [Rule 62-297.310(7), F.A.C.]~~

~~C.14. VE Testing Annual. By this permit, annual emissions compliance testing for VE is not required for this emissions unit when operated for less than 400 hours per year. [Rules 62-297.310(7)(a)4. & 8., F.A.C.]~~

~~C.15. Compliance Test Prior To Renewal. Prior to permit renewal, this emissions unit shall be tested to demonstrate compliance with the emission limitations and standards for VE. [Rule 62-297.310(7)(a)3., F.A.C.]~~

~~C.16. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]~~

Recordkeeping and Reporting Requirements

~~C.17. Recordkeeping Hours of Operation. If the permittee elects to conduct a VE compliance test only once per five year (renewal) period per Rule 62-297.310(7)(a)8., F.A.C., daily recordkeeping of the hours of operation is required to show that the 400 hour annual limit is not exceeded each year during the five year period. [Rule 62-297.310(7)(a)4. & 8., and Rule 62-4.070(3), F.A.C.]~~

~~C.18. Recordkeeping Monthly Operations Summary. By the fifth calendar day of each month, the permittee shall record the following information in a written log for the previous month of operation and for the previous 12 months of operation: the number of operational hours for the turbine. The Monthly Operations Summary shall be maintained on site in a legible format available for inspection at the Department's request. [Rules 62-4.070(3) and 62-4.160(15), F.A.C.]~~

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection C. Emissions Unit -007

- ~~C.19. Recordkeeping - Fuel Oil. Documentation of the type, quantity, and analysis of the fuel oil used/received is required. Records shall be kept for 5 (five) years. [Rules 62-4.070(3) and 62-213.440(1), F.A.C.]~~
- ~~C.20. Reporting - Hours of Operation. The average daily and total annual hours of operation for the combustion turbine shall be submitted in the annual operating report (AOR). [Rule 62-213.440(1)(b)1.b. (Periodic Monitoring), F.A.C. [Resolution of objection from USEPA dated 12/14/2000.].]~~
- ~~C.21. Other Reporting Requirements. See Appendix RR, Facility Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]~~

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection D. Emissions Units -008, -018, -009, -019 & -026

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
	<i>Flyash Handling and Storage - Silo Nos. 1 and 2</i>
-008	Fly Ash Silo No. 1 Baghouse
-018	Fly Ash Silo No. 1 Truck Loadout
-009	Fly Ash Silo No. 2 Baghouse
-019	Fly Ash Silo No. 2 Truck Loadout
-026	Fly Ash Handling and Storage Fugitive Emissions (all except silos)

These emissions units consist of Fly Ash Silo Nos. 1 and 2, which handle fly ash from Steam Generator Unit Nos. 1, 2 and/or 3, as described below.

Fly Ash Silo No. 1 handles fly ash from Steam Generator Units No. 1 and No. 2. Fly ash is pneumatically conveyed from the individual electrostatic precipitators to Silo No. 1. Also, the fly ash may be pneumatically conveyed from tanker trucks to and/or from Silo No. 2 to Silo No. 1. The sum total loading rate to the silo for all the processes combined is 44.5 tons per hour. Fly ash from Silo No. 1 is discharged in either a wet or dry state. The dry fly ash is pneumatically conveyed to the beneficiation facility and/or gravity fed by tubing into totally enclosed tanker trucks. Fly ash is chemically or physically processed through a pugmill and then the wet ash unloaded into dump trucks. Particulate matter emissions generated by silo loading and silo unloading to a tanker truck are controlled by a 20,081 dscfm Flex Kleen Model No. 84 UDTR-640 baghouse in addition to reasonable precautions. All fly ash handled is generated on-site.

Fly Ash Silo No. 2 handles fly ash from Steam Generator Units Nos. 1, 2 and/or 3. Fly ash is pneumatically conveyed in a series of pipes from the individual unit precipitators (Units 1, 2 and/or 3, only two units at any time) to the silo for temporary storage. Fly ash from Silo No. 2 is discharged in either a wet or dry state. From the silo, the dry fly ash is pneumatically conveyed to the beneficiation facility and/or gravity fed by tubing into closed tanker trucks and transported to an off-site consumer. The wet fly ash is processed through a pugmill and then unloaded into a dump truck to be transported to an off-site consumer. Particulate matter emissions generated during silo loading operation and from the tanker truck loadout chutes are controlled by a 20,081 dscfm Flex Kleen, Model No. 84 UDTR-640 baghouse in addition to reasonable precautions.

{Permitting note(s): These emissions units are regulated under Rule 1-3.52, Rules of the Environmental Protection Commission (EPC) of Hillsborough County and Rule 62-210.300, F.A.C., Permits Required.}

Essential Potential to Emit (PTE) Parameters

- D.1. Hours of Operation.** These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE), F.A.C.)]
- D.2. Permitted Capacity.** The maximum permitted loading rate for all Fly Ash Silo No. 1 processes combined is 44.5 tons per hour. The maximum permitted loading rate for all Fly Ash Silo No. 2 processes combined is 44.5 tons per hour. [Rules 62-4.160(2), 62-210.200 (Definitions - PTE); and, AC29-194516.]

Emission Limitations and Standards

Unless otherwise specified, the averaging times for Specific Conditions **D.3. - D.4.** are based on the specified averaging time of the applicable test method.

- D.3. Particulate Matter Emissions.** Total maximum allowable emissions of particulate matter from the each silo baghouse shall not exceed 0.03 gr/dscf, 5.16 lbs/hr and 22.62 tons/yr based on a design flow rate of 20,081 dscfm. [Rules 62-4.160(2) and ~~Rule 62-297.620(4), F.A.C.~~ 62-296.711(2)(b), F.A.C.; AO29-160255 and AO29-161082]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection D. Emissions Units -008, -018, -009, -019 & -026

- D.4. Visible Emissions.** Visible emissions from the flyash handling system and flyash silos are limited to 5% opacity. [~~Rule 62-297.620(4), F.A.C.~~; PA 79-12; and, Chapter 1-3.52, Rules of the EPC.]
- D.5. Unconfined Emissions of Particulate Matter.** All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Rule 62-296.320(4), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. The following reasonable precaution shall be taken to control unconfined particulate matter emissions associated with the fly ash silo/truck operations. Reasonable precautions shall include, but not limited to:
- a. Fly ash transported by dump truck shall be adequately wetted and processed through the pugmill;
 - b. Dump trucks used to transport fly ash shall utilize tarps at all times except when loading/unloading;
 - c. Fly ash transported in a dry state shall be accomplished utilizing an enclosed tanker truck;
 - d. Fly ash spilled and/or leaked on plant grounds shall be adequately wetted and disposed of daily;
 - e. Fly ash collected from spills and/or leaks must be adequately wetted at all times;
 - f. Ensure the proper seating of the unloader chute onto the tanker inlet prior to loading;
 - g. Keep the dust extractor operational during loading;
 - h. Close the tanker's inlet as soon as *practical* after the loading process;
 - i. Extend the tubing from the silo into the closed tanker type trucks during loadout; and,
 - j. Periodic watering of plant roads.
- [Rules 62-296.320(4)(c)2. and 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.]

Excess Emissions

- D.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.]
- D.7. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

- D.8. Test Methods.** Required tests shall be performed in accordance with the following reference methods:

Method(s)	Description of Methods and Comments
EPA Methods 1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
EPA Method 5	Methods for Determining Particulate Matter Emissions
EPA Method 9	Visual Determination of the Opacity of Emissions

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

- D.9. Annual Compliance Test.** During each federal fiscal year (October 1st to September 30th), Emissions Unit ID Nos. -008, -018, -009 and -019 shall be tested to demonstrate compliance with the emission limitations and standards for VE. [Rule 62-297.310(7), F.A.C.]
- D.10. Compliance Test Prior To Renewal.** Prior to permit renewal, Emissions Unit ID Nos. -008, -018, -009 and -019 shall be tested to demonstrate compliance with the emission limitations and standards for VE. [Rule 62-297.310(7)(a)3., F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

The specific conditions in this section apply to the following emissions units:

E.U. ID No.	Brief Description
	<i>Solid Fuel Yard</i>
-010	Solid Fuel Yard Fugitive Emissions
-029	Fuel Blending Bin Cyclone Collectors (FH 032 through FH 035)
-030	Fuel Mill Cyclone Collectors (FH 048 and FH 049)

These emissions units consist of solid fuel handling and storage activities at the Big Bend Station as described in more detail below:

Solid fuel 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 rotocones, 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 rotocones.

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.

{Permitting note(s): These emissions units are regulated under Rule 212.400(5), F.A.C., Prevention of Significant Deterioration [PSD FL 040]; Rule 62-296.711, F.A.C., Reasonable Available Control Technology (RACT) Particulate Matter (PM) Materials Handling, Sizing, Screening, Crushing and Grinding Operations; Rule 62-210.300, F.A.C., Permits Required; Power Plant Siting Certification [PA 79-12]; and, Chapter 1-3.52, Rules of the EPC, Rules of the Environmental Protection Commission (EPC) of Hillsborough County.}

Authorized Emissions Points

H.1. — Authorized Emissions Points. A list of all authorized emissions points at the fuel yard facility shall be included in the Title V air operation permit revision and/or renewal. An updated list of the emissions points (FH 001 through FH 076b) related to E.U. ID Nos. 010, 029 and 030 is attached as **Appendix F, Solid Fuel Yard Fugitives – Emissions Points.** [Permit No. 0570039-025 AC, Specific Condition 10.]

Essential Potential to Emit (PTE) Parameters

H.2. — Hours of Operation. These emissions units may operate continuously (8760 hours/year). [Rule 62-210.200 (Definitions – Potential to Emit (PTE), F.A.C.)]

H.3. — Capacity – Transloading Source/Emissions Point. From each fuel transloading source/emissions point (i.e., off loading and loading of fuel {for export from Big Bend Station}), the maximum hourly transloading transfer of fuel shall not exceed 4,000 tons, 24-hour rolling average. [Rule 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

H.4. — Capacity – Transloading Source/Emissions Point. From each fuel transloading source/emissions point, (i.e., off loading and loading of fuel {for export from Big Bend Station}), the maximum annual transloading transfer of fuel shall not exceed 1,428,030 tons. [Rule 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

Operational Requirements

- H.5.** ~~PM Control Devices.~~ Particulate matter emissions shall be controlled by use of control devices. [Rule 62 4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79 12.]
- H.6.** ~~PM Control Device Technical Data.~~ The permittee must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate matter emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth ratio and flow rate. The Department may, upon review of these data, disapprove the use of such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in condition (a) above. Such disapproval shall be issued within 30 days of receipt of the technical data. [Rule 62 4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79 12.]
- H.7.** ~~Equipment Enclosure.~~ All conveyors and conveyor transfer points shall be enclosed to preclude particulate matter emissions excepting the coal handling stacker reclaimer, the tail end conveyor feeding the tripper and the barge unloading belt which are exempted for feasibility considerations. [PSD FL 040.]
- H.8.** ~~Water Sprays.~~ Water sprays for storage piles, handling equipment, etc., including the handling equipment exempted from the conveyor enclosure requirement, shall be applied during dry periods and as necessary to all facilities to maintain opacity below 20%. [Rules 62 4.160(2) and 62 296.320(4)(c), F.A.C.]
- H.9.** ~~Minimizing Wind Erosion - Coal Storage Piles.~~ Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion. [PSD FL 040.]

Emission Limitations and Standards

Unless otherwise specified, the averaging time for Specific Conditions **H.10.** is based on the specified averaging time of the applicable test method.

- H.10.** ~~VE/Opacity Limits.~~ Pursuant to Chapter 1 3.52, Rules of the EPC, visible emissions shall not exceed 20% opacity for any unconfined emissions in the fuel yard. Unconfined emissions as defined by Rule 62 210.200, F.A.C., shall include the static fuel piles, etc. Pursuant to Rule 62 296.711(2), F.A.C., visible emissions shall not exceed 5% opacity for the remaining emissions units in the fuel yard. [Rules 62 296.320(4)(b)1., 62.296.711(2) and 62 4.070(1) & (3) (Reasonable Assurance), F.A.C.; PA 79 12; and, Chapter 1 3.52, Rules of the EPC.]
- H.11.** ~~Reasonable Precautions to Minimize Unconfined Particulate Matter - Fuel Pile Operations.~~ The fuel pile operations are subject to Rule 62 296.320(4)(c), F.A.C., Unconfined Emissions of Particulate Matter. Reasonable precautions to minimize unconfined particulate matter shall be in accordance with Rule 62 296.310(3)(c), F.A.C.; and, may include, but shall not be limited to, the coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed fuel. [Rules 62 296.320(4)(c) and 62 4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79 12.]

Excess Emissions

- H.12.** ~~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.]
- H.13.** ~~Excess Emissions Prohibited.~~ Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62 210.700(4), F.A.C.]

Test Methods and Procedures

- H.14.** ~~Test Methods.~~ Required tests shall be performed in accordance with the following reference method(s):

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

Method(s)	Description of Method(s) and Comment(s)
EPA Method 9	Visual Determination of the Opacity of Emissions

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

H.15. Annual Compliance Test. During each federal fiscal year (October 1st to September 30th), VE tests shall be performed to demonstrate compliance with the opacity standards established for the emissions points FH-032 through FH-035 and FH-048 & FH-049. [Rules 62-297.310(7), F.A.C. and 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

H.16. Compliance Test Prior To Renewal. Prior to permit renewal, VE tests shall be performed to demonstrate compliance with the opacity standards established for the emissions points FH-032 through FH-035 and FH-048 & FH-049. [Rule 62-297.310(7)(a)3., F.A.C.]

H.17. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

H.18. Visible Emissions Test. Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of the annual test shall be 30 (thirty) minutes. [Rules 62-4.070(3) and 62-297.310(4)(a)2., F.A.C.]

H.19. Reconfiguration Testing. All testing shall be done within 90 days of completing reconfiguration of the fuel yard. [Rule 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

Recordkeeping and Reporting Requirements

H.20. Fuel Daily Log. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values. [Rule 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

H.21. Recordkeeping and Reporting. The number of railcars and trucks and the quantity of fuel loaded by each fuel transloading source/emissions point (i.e., off loading and loading of fuel {for export from Big Bend Station}) shall be recorded, maintained, and kept on file for a minimum of 5 (five) years. The annual quantity of fuel loaded by each fuel transloading source/emissions point shall be submitted in the Annual Operation Report (AOR). [Rule 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]

H.22. Other Reporting Requirements. See Appendix RR, Facility Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

The following additional conditions address the emissions points listed below which are related to E. U. ID No. -010:

<u>Emissions Point</u>	<u>Description of Emissions Point</u>
FH-074a PET	Reclaim from Peteoke 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)

Coal, peteoke, or slag related to the additional transloading is brought in by barge at infrequent intervals and transferred to Transfer Station T2 using existing conveyors. From Station T2, the transloaded materials are

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

transferred to storage piles located in the fuel yard using a combination of existing conveyors. The coal, petcoke, and slag is then loaded into trucks using front end loaders for off-site shipment.

Essential Potential to Emit (PTE) Parameters

~~H.23. Materials Allowed and Permitted Capacity. The allowable materials to be transloaded via the emission points listed above as FH 074a, b and c, FH 075a and b, and FH 076a and b are coal (except residual coal), petcoke or slag.~~

- ~~a. The 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; and, only one material shall be transloaded at a time.~~
- ~~b. 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(1) & (3), and 62-210.200 (PTE), F.A.C.; Site Certification No. PA79-12C and D; and, Permit No. 0570039-025-AC.]~~

Operational Requirements

~~H.24. Controls of Particulate Matter. 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. [Rules 62-296.320(4)(c) and 62-4.070(1) & (3), F.A.C.; and, Permit No. 0570039-025-AC, Appendix C, Common Condition 11.]~~

Emission Limitations and Standards

~~Unless otherwise specified, the averaging time for Specific Conditions H.25. is based on the specified averaging time of the applicable test method.~~

~~H.25. 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.; and, Permit No. 0570039-025-AC.]~~

Operational Requirements

~~H.26. Unconfined Emissions of Particulate Matter. 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 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 re-entrainment, 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.~~

~~[Rules 62-296.320(4)(c) and 62-4.070(1) & (3), F.A.C.; and, Permit No. 0570039-025-AC, Appendix C, Common Condition 11.]~~

Excess Emissions

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

H.27. ~~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.]

H.28. ~~Excess Emissions Prohibited.~~ Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

H.29. ~~Test Methods.~~ Required tests shall be performed in accordance with the following reference methods:

Method(s)	Description of Method(s) and Comment(s)
EPA Method 9	Visual Determination of the Opacity of Emissions

— The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

H.30. ~~Annual Compliance Test.~~ 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. {Permitting note(s): No annual testing is required for emission point FH-074c SLAG based on the initial visible emissions test conducted on May 2, 2007 indicating that slag handling has minimal emissions.} [Rules 62-204.800, 62-297.310(7)(a)4., and 62-297.400, F.A.C.; Permit No. 0570039-025-AC.]

H.31. ~~Compliance Test Prior To Renewal.~~ Prior to permit renewal, VE tests shall be conducted 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. [Rule 62-297.310(7)(a)3., F.A.C.]

H.32. ~~Common Testing Requirements.~~ Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

H.33. ~~Visible Emissions Test.~~ Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of the annual test shall be 30 minutes. [Rules 62-4.070(3) and 62-297.310(4)(a)2., F.A.C.]

Recordkeeping and Reporting Requirements

H.34. ~~Recordkeeping and Reporting.~~ 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.; and, Permit No. 0570039-025-AC.]

H.35. ~~Other Reporting Requirements.~~ See Appendix RR, Facility Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

The specific conditions in this section apply to the following emissions units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
	<i>Solid Fuel Yard</i>

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

-010	Fugitive Emissions from Fuel Unloading and Handling Operations
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This emissions unit consists of solid fuel handling and storage activities at the Big Bend Station as described in more detail below.

Solid fuel (consisting of coal and petcoke) is unloaded from ships and barges into the solid fuel yard, the blending bins or directly to the tripper room via belt conveyors. Solid fuel may also be received/unloaded by railcar (see EU ID No. -047) and conveyed to the fuel yard. 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 (see EU ID No. -029), 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 (see EU ID No. -046).

Permitting note(s): These emissions units are regulated under Rule 212.400(5), F.A.C., Prevention of Significant Deterioration [PSD-EL-040]; Rule 62-296.711, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter (PM) - Materials Handling, Sizing, Screening, Crushing and Grinding Operations; Rule 62-210.300, F.A.C., Permits Required: Power Plant Siting Certification [PA 79-12]; and, Chapter 1-3.52, Rules of the EPC, Rules of the Environmental Protection Commission (EPC) of Hillsborough County.

Authorized Emissions Points

The emissions unit contained in this subsection is comprised of the following emissions points:

E.U. ID No. -010: Solid Fuel Unloading and Handling Operations	
Point ID	Description of Emissions Point
<i>Barge Unloading Operations</i>	
FH-001	Barge Clamshell to Conveyor D1
FH-002	Barge Bucket Elevator to Conveyor A1
FH-003	Conveyor A1 to Conveyor B1
FH-004	Conveyor B1 to Conveyor D1
FH-005	Self-Unloading Barge to Conveyor D1
<i>Coal Conveying Operations</i>	
FH-006	Conveyor D1 to Conveyor E1
FH-007	Conveyor E1 to Conveyor Y or Conveyor F1
FH-008a	Conveyor Y to Conveyor Z
FH-008b	Conveyor Z to West Emergency Pile
FH-012	Conveyor Z to Conveyor P
FH-013	Conveyor P to Intermediate Conveyor
FH-014	Intermediate Conveyor to North Stacker Conveyor (G2)
FH-015	North Stacker Conveyor (G2) to North/Center Storage Pile
FH-017	North Stacker Conveyor (G2) to Conveyor P
FH-022	Conveyor F1 to South Stacker Conveyor (G1)
FH-023	South Stacker Conveyor (G1) to South/Center Storage Pile
FH-025	South Reclaimer Conveyor (G1) to Conveyor F1
FH-028	Conveyor P to Conveyor J2
FH-029	Conveyor J2 to Conveyor Q2
FH-030	Conveyor F1 to Conveyor J1
FH-031	Conveyor J1 to Conveyor Q1
FH-052	Conveyor U to East Emergency Storage Pile
FH-055	Conveyor W1 to Conveyor L1
FH-056	Conveyor W2 to Conveyor L2

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

<u>FH-059 - FH-062</u>	<u>Conveyors L1 and L2 to M1 & M2, and Conveyors M1 and M2 to Coal Bunkers</u>
<u>Coal Equipment & Storage</u>	
<u>FH-009</u>	<u>Dozer Operations on West Emergency Storage Pile</u>
<u>FH-010</u>	<u>West Emergency Storage Pile</u>
<u>FH-011a</u>	<u>Dozer Reclaim from West Emergency Pile to Portable Conveyor</u>
<u>FH-016</u>	<u>Mobile Reclaimer to North Stacker Conveyor (G2)</u>
<u>FH-018</u>	<u>Dozer Operations on North Storage Pile</u>
<u>FH-019</u>	<u>North Storage Pile</u>
<u>FH-020</u>	<u>Dozer Operations on Middle (Common) Storage Pile</u>
<u>FH-021</u>	<u>Fuel Storage - Middle (Common) Storage Pile</u>
<u>FH-024</u>	<u>South Reclaimer to South Reclaimer Conveyor (G1)</u>
<u>FH-026</u>	<u>Dozer Operations on South Storage Pile</u>
<u>FH-027</u>	<u>South Storage Pile</u>
<u>FH-036 - FH-047</u>	<u>Blending Bins to Conveyors T1, T2</u>
<u>FH-050</u>	<u>Crusher to Conveyor W1</u>
<u>FH-051</u>	<u>Crusher to Conveyor W2</u>
<u>FH-053</u>	<u>Dozer Operations on East Emergency Storage Pile</u>
<u>FH-054</u>	<u>East Emergency Storage Pile</u>
<u>FH-057</u>	<u>Dozer Reclaim from East Emergency Pile to "K" Feeders</u>
<u>FH-058</u>	<u>"K" Feeders to Conveyors L1 or L2</u>
<u>FH-063</u>	<u>Dozer Operations on Storage Pile</u>
<u>FH-064</u>	<u>Dozer Reclaim from Storage Pile to Loadout Conveyor</u>
<u>FH-070</u>	<u>Long Term Storage Pile</u>
<u>FH-071</u>	<u>Dozer Operations on Long Term Storage Pile</u>
<u>FH-072</u>	<u>Trucks, Full</u>
<u>FH-073</u>	<u>Trucks, Empty</u>

Essential Potential to Emit (PTE) Parameters

The handling capacity for the conveyors and equipment that comprise the solid fuel yard emissions points is not specifically limited; however, the design capacity for the majority of the handling equipment is 4,000 tons per hour. The total annual solid fuel handling capacity is inherently limited by the amount of fuel that Boilers 1 – 4 can burn (5-6 million tons per year) plus the amount of solid fuel that can be transloaded for off-site shipment (1,428,030 tons per year, see E.U. ID No. -046). In addition, permit No. 0570039-041-AC established an annual limit of 8 million tons per year of solid fuel that can be received by railcar (see E.U. ID No. -047).

H.1. Methods of Operation – Materials Handling. The materials that are allowed to be handled by these emissions units are coal, petroleum coke, slag and residual coal (generated at the TEC Polk Power Station). [PA 79-12 and Permit No. 0570039-012-AC]

H.2. Hours of Operation. These emissions points may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE), F.A.C. and PA 79-12)]

Control Technology

H.3. PM Control Devices. Particulate matter emissions shall be controlled by use of control devices. [PA 79-12.]

{Permitting Note: This requirement is satisfied by complying with Specific Conditions H.4. – H.6.}

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, -029 & -030

- H.4. Equipment Enclosure.** All conveyors and conveyor transfer points shall be enclosed to preclude particulate matter emissions excepting the coal handling stacker reclaimer, the tail end conveyor feeding the tripper and the barge unloading belt, which are exempted for feasibility considerations. [PSD-FL-040]
- H.5. Water Sprays.** Water sprays for storage piles, handling equipment, etc., including the handling equipment exempted from the conveyor enclosure requirement (see Specific Condition H.4.), shall be applied during dry periods and as necessary to all unconfined emissions points to maintain opacity below 20%. Water sprays and/or surfactants shall also be applied as necessary within the covered conveyors and drop points to maintain opacity below 5%. [Rules 62-4.160(2), 62-213.440 and 62-296.320(4)(c), F.A.C.]
- H.6. Minimizing Wind Erosion - Coal Storage Piles.** Coal storage piles shall be shaped, compacted and oriented to minimize wind erosion. [PSD-FL-040]

Emission Limitations and Standards

Unless otherwise specified, the averaging time for Specific Condition H.7. is based on the specified averaging time of the applicable test method.

- H.7. VE/Opacity Limits.** Pursuant to Chapter 1-3.52, Rules of the EPC, visible emissions shall not exceed 20% opacity for any unconfined emissions in the fuel yard. Unconfined emissions, as defined in Rule 62-210.200, F.A.C., shall include the static fuel piles, etc. Pursuant to Rule 62-296.711(2), F.A.C., visible emissions shall not exceed 5% opacity for the remaining emissions units in the fuel yard, as determined by opacity testing. [Rules 62-296.320(4)(b)1., 62-296.711(2), F.A.C.; PA 79-12; and, Chapter 1-3.52, Rules of the EPC.]

[Permitting Note: "Unconfined Emissions" are defined in Rule 62-210.200 as "Emissions which escape and become airborne from unenclosed operations or which are emitted into the atmosphere without being conducted through a stack." Based on this definition and the applicable requirements reflected in Specific Condition H.7., emissions from operations related to the open storage piles (i.e. movable conveyor drops to the storage piles, the open storage piles themselves, dozer operations on the storage piles, the movable coal handling stacker reclaimer, the tail end conveyor feeding the tripper and the barge unloading belt) are considered unconfined emissions subject only to the general 20% opacity standard and regular VE testing is not required. The emission points that are enclosed (i.e. conveyors, conveyor transfer points and static conveyor drop points) are subject to Chapter 1-3.52, Rules of the EPC, and the PM RACT, standard of 5% opacity. TEC is able to meet this limit by maintaining the required enclosures and by operating water sprays or applying surfactants as needed; therefore, additional add-on PM control devices are not needed.]

- H.8. Reasonable Precautions to Minimize Unconfined Particulate Matter - Fuel Pile Operations.** The fuel pile operations are subject to Rule 62-296.320(4)(c), F.A.C., Unconfined Emissions of Particulate Matter. Reasonable precautions to minimize unconfined particulate matter shall be in accordance with Rule 62-296.320(4)(c), F.A.C.; and, may include, but shall not be limited to, the coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed fuel. [Rule 62-296.320(4)(c) and PA 79-12.]

Excess Emissions

- H.9. 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.]
- H.10. Excess Emissions Prohibited.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

SECTION III. EMISSIONS UNITS AND SPECIFIC CONDITIONS.

Subsection H. Emissions Units -010, 029 & 030

Test Methods and Procedures

H.11. Test Methods. Required tests shall be performed in accordance with the following reference method(s):

<u>Method(s)</u>	<u>Description of Method(s) and Comment(s)</u>
<u>EPA Method 9</u>	<u>Visual Determination of the Opacity of Emissions</u>

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

H.12. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

H.13. Annual Compliance Test. During each federal fiscal year (October 1st to September 30th), VE tests shall be performed to demonstrate compliance with the opacity standards established for the emissions points within this emissions unit that are subject to the 5% opacity limit, as specified in Specific Condition H.7. and the associated permitting note. [Rule 62-297.310(7), F.A.C., Chapter 1-3.52, Rules of the EPC and PA 79-12.]

H.14. Compliance Test Prior To Renewal. Prior to permit renewal, VE tests shall be performed to demonstrate compliance with the opacity standards established for the emissions points within this emissions unit that are subject to the 5% opacity limit, as specified in Specific Condition H.7. and the associated permitting note. [Rule 62-297.310(7)(a)3., F.A.C. and Chapter 1-3.52, Rules of the EPC]

H.15. Visible Emissions Test. Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of the annual tests shall be 30 minutes. [Rule 62-297.310(4)(a)2., F.A.C.]

Recordkeeping and Reporting Requirements

H.16. Fuel Daily Log. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values. [PA 79-12]

H.17. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & -042

The specific conditions in this section apply to the following emissions unit(s):

<u>E.U. ID No.</u>	<u>Brief Description</u>
<u>-041</u>	<u>SCCT 4A with a common electric generator that it shares with SCCT 4B</u>
<u>-042</u>	<u>SCCT 4B with a common electric generator that it shares with SCCT 4A</u>

These emissions units consist of one PWPS FT8-3® SwiftPac® Aeroderivative simple cycle combustion turbine (SCCT)-generator peaking unit. SCCT 4A and SCCT 4B are coupled to one common generator having a nominal gross generation capacity of 62 MW. Each SCCT is equipped with water injection to minimize NO_x emissions and an oxidation catalyst to minimize CO and VOC emissions. Each SCCT may only be operated in the simple cycle mode. Each SCCT is allowed to fire pipeline-quality natural gas (NG) containing no more than 2.0 grains of total sulfur per one hundred standard cubic feet (gr S/100 scf) and ultra low sulfur diesel fuel (ULSD) containing a maximum sulfur content of 0.0015 percent by weight.

{Permitting Notes: Nitrogen Oxides (NO_x) emissions from units -041 and -042 are controlled by steam or water injection. Carbon monoxide emissions are controlled by an oxidation catalyst system. Units -041 and -042 began commercial operation on August 15, 2009. The generator nameplate rating for units -041 and -042 is 31 MW each, 62 MW total. Each unit has a separate, but identical, stack with the following parameters: Stack height = 60 feet; exit diameter = 9.5 feet; exit temperature = 893° F; and, actual volumetric flow rate = 430,737 actual cubic feet per minute (acfm). In addition to the requirements listed below, these emissions units are also subject to the standards and requirements contained in the Acid Rain Part of this permit (see Section IV).}

Essential Potential to Emit (PTE) Parameters

O.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

<u>Unit No.</u>	<u>MMBtu/hr Heat Input</u>	<u>Fuel Type</u>
<u>-041, -042</u>	<u>342.7</u>	<u>Natural Gas (NG)</u>
<u>-041, -042</u>	<u>302.7</u>	<u>Ultra Low Sulfur Diesel (USLD)</u>

Heat input rates are based on 100% load with evaporative cooling, 59° F ambient temperature, 52° F compressor inlet air temperature, and the higher heating value (HHV) of the fuel. Heat input rates will vary depending upon turbine characteristics, ambient conditions and evaporative cooling. The permittee shall have provided manufacturer's performance curves (or equations) that correct for site conditions to the Permitting and Compliance Authorities within 45 days of completing the initial compliance testing. The manufacturer's curves shall be reestablished and resubmitted to DEP within 45 days following the replacement of any combustion turbine components or major turbine tuning session that could reasonably affect the performance of the turbine. Operating data may be adjusted for the appropriate site conditions in accordance with the performance curves and/or equations on file with the Department. [Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), 62-213.440, F.A.C.; and, Permit No. 0570039-040-AC, Specific Condition 7.]

O.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

O.3. Methods of Operation.

a. Fuels. The fuels that are allowed to be burned in these units are:

(1) NG, Primary Fuel. The NG shall contain no more than 2.0 grains of sulfur per 100 standard cubic feet (2.0 gr S/100 scf).

(2) ULSD. The ULSD shall contain a maximum sulfur content of 0.0015%, by weight.

b. Simple Cycle Mode. Each CT shall operate only in the simple cycle mode not to exceed the permitted hours of operation allowed by this permit (See Specific Condition O.4.). This restriction is based on the permittee's request, which formed the basis of the PSD applicability and emission standards specified in

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

this permit. For any request to convert these units to combined cycle operation by installing/connecting to heat recovery steam generators, including changes to the fuel or quantity related to combined cycle conversion that may cause an increase in short or long-term emissions, the permittee shall submit a full PSD permit application complete with a proposed best available control technology (BACT) determination as if the SCCT peaking units had never been built.

[Rule 62-213.410, F.A.C. and Permit No. 0570039-040-AC, Specific Conditions 3, 8 & 9.]

- O.4.** Hours of Operation. SCCT 4A and SCCT 4B are allowed to operate in the peaking service mode for no more than 3,500 hr/calendar year each, including no more than 500 hr/calendar year each on ULSD. Any hour used to fire ULSD will decrease an hour that could have been used to fire NG. [Rule 62-210.200(PTE), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 6.]

Control Technology

- O.5.** Wet Injection. The permittee shall adjust, operate, and maintain a water injection system to reduce NO_x emissions from each SCCT. The water injection system shall be maintained and adjusted in accordance with the manufacturer's recommendations or determined best practices to minimize emissions. [Rule 62-4.070(3), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 4.]
- O.6.** Oxidation Catalyst. The permittee shall operate and maintain an oxidation catalyst system to reduce CO and VOC emissions from each SCCT. The system shall be maintained and operated in accordance with the manufacturer's recommendations or determined best practices to minimize emissions. [Rule 62-4.070(3), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 5.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions O.7. - O.11. are based on the specified averaging time of the applicable test method.

The mass emission rate standards are based on a turbine inlet temperature condition of 59 °F, evaporative cooling on, and using the higher heating value (HHV) of the fuel. Mass emissions rates may be adjusted to actual test conditions in accordance with the performance curves and/or equations on file with the Department. The emissions limits listed in Specific Conditions O.7. - O.11. are for each SCCT, not combined.

- O.7.** Visible Emissions. Visible emissions from each unit shall not exceed 10 percent opacity, as determined by annual testing. [Permit No. 0570039-040-AC, Specific Condition 10.]
- O.8.** Nitrogen Oxide (NO_x). NO_x emissions from each unit shall not exceed the following:
- a. When Firing Natural Gas.
 - (1) 25.0 ppmvd @ 15% oxygen (O₂) (NSPS) or,
 - (2) 32.0 lb/hr/SCCT (SIP).
 - b. When Firing Ultra Low Sulfur Diesel.
 - (1) 42.0 ppmvd @ 15 O₂ (SIP) or,
 - (2) 74.0 ppmvd @ 15 O₂ (NSPS) or,
 - (3) 51.3 lb/hr/SSCT (SIP).
 - c. When Firing Both NG and ULSD. Compliance with the NSPS limit is ensured by complying with either the NSPS limit, for NG, or the SIP limit, for ULSD, depending on the contribution of the fuels of the total heat input: if the total heat input contribution is equal to or greater than 50 percent from NG, you must meet the corresponding limit for a NG-fired turbine when you are burning that fuel; similarly, when your total heat input contribution is greater than 50 percent from ULSD, you must meet the corresponding limit for ULSD for the duration of the time that you burn that particular fuel.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

d. Demonstration of Compliance. Continuous compliance shall be demonstrated with the concentration-based (ppmvd) NO_x emissions limits (4-hour rolling average) for each fuel type by data collected from the required continuous emissions monitoring system (CEMS). Compliance with the mass-based (lb/hour) NO_x emissions limits (3-run average) shall be demonstrated by data collected during the required annual Relative Accuracy Test Audit (RATA). When firing ULSD, compliance with the SIP limit ensures compliance with the NSPS limit of 74 ppmvd @ 15% O₂.

[40 CFR 60, Subpart KKKK and Permit No. 0570039-040-AC, Specific Condition 10.]

O.9. Carbon Monoxide (CO). CO emissions from each unit shall not exceed the following:

a. When Firing Natural Gas.

(1) 21.0 ppmvd @ 15% O₂ (SIP) or,

(2) 9.1 lb/hr/SCCT (SIP).

b. When Firing Ultra Low Sulfur Diesel.

(1) 5.1 ppmvd @ 15% O₂ (SIP) or,

(2) 2.1 lb/hr/SCCT (SIP).

c. Demonstration of Compliance. Continuous compliance shall be demonstrated with the concentration-based (ppmvd) CO emissions limits (3-hour rolling average) for each fuel type by data collected from the required continuous emissions monitoring system (CEMS). Compliance with the mass-based (lb/hour) CO emissions limits (3-run average) shall be demonstrated by data collected during the required annual Relative Accuracy Test Audit (RATA).

[Permit No. 0570039-040-AC, Specific Condition 10.]

{Permitting Note: CO is used as a surrogate for VOC emissions as a demonstration of good combustion.}

O.10. Particulate Matter (PM). PM emissions are minimized by complying with the fuel sulfur specifications, combined with the efficient combustion design and operation of the turbines (good combustion). [Permit No. 0570039-040-AC, Specific Condition 10.]

{Permitting Note: Compliance with the fuel specifications, CO standards, and visible emissions standards shall serve as indicators of good combustion. No PM emissions limits or compliance demonstrations are imposed. Maximum expected PM/PM₁₀ emissions from each turbine are approximately 2.5 and 7.5 lb/hr for NG and ULSD, respectively.}

O.11. Sulfur Dioxide (SO₂). SO₂ emissions from each unit shall not exceed the following:

a. When Firing Natural Gas.

(1) 2.0 grains (gr) of Sulfur (S)/100 standard cubic feet (scf) of natural gas (SIP) or,

(2) 0.90 lb/megawatt hour (MWh)/SCCT gross output (NSPS) or,

(3) 0.060 lb/MMBtu/SCCT heat input (NSPS).

b. When Firing Ultra Low Sulfur Diesel.

(1) 0.0015% S content, by weight (SIP) or,

(2) 0.90 lb/MWh/SCCT gross output (NSPS) or,

(3) 0.060 lb/MMBtu/SCCT heat input (NSPS).

c. Demonstration of Compliance. The fuel sulfur specifications effectively limit the potential emissions of SO₂ (and essentially sulfuric acid mist). For compliance purposes, the permittee elected to demonstrate that the fuel combusted will not exceed the potential sulfur emissions of 0.060 lb SO₂/MMBtu heat input (see Appendix 40 CFR 60, Subpart KKKK of the permit).

[40 CFR 60, Subpart KKKK and Permit No. 0570039-040-AC, Specific Conditions 8 & 10.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

- O.12.** Definitions. Rule 62-210.200(Definitions), F.A.C., defines the following terms:
- Startup is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
 - Shutdown is the cessation of the operation of an emissions unit for any purpose.
 - Malfunction is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner. [Permit No. 0570039-040-AC, Specific Condition 21.]
- O.13.** 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. and Permit No. 0570039-040-AC, Specific Condition 22.]
- O.14.** 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. and Permit No. 0570039-040-AC, Specific Condition 23.]
- O.15.** Allowable SIP CO and NO_x Data Exclusions. Provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized, CO and NO_x CEMS data collected during periods of startup, shutdown and malfunction may be excluded from the 3-hr rolling average and 4-hr rolling average, respectively, for compliance demonstrations only in accordance with the following requirements. All periods of data excluded shall be consecutive for each such episode and only data obtained during the described episodes (startup, shutdown malfunction and tuning) may be excluded. As provided by the authority in Rule 62-210.700(5), F.A.C., the following conditions replace the provisions in Rule 62-210.700(1), F.A.C.
- Startup. In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first 10 minutes of CEMS data shall be excluded for each gas turbine startup. For startups of less than 10 minutes in duration, only those minutes attributable to startup shall be excluded.
 - Shutdown. In accordance with the procedures described in the CEMS Data Requirements of this section, no more than the first 10 minutes of CEMS data shall be excluded for each gas turbine shutdown. For shutdowns less than 10 minutes in duration, only those minutes attributable to shutdown shall be excluded.
 - Malfunction. In accordance with the procedures described in the CEMS Data Requirements of this section, no more than 120 minutes of CEMS data shall be excluded in a 24-hour period for each gas turbine due to malfunctions. Within one (1) working day of occurrence, the owner or operator shall notify the Compliance Authority of any malfunction resulting in the exclusion of CEMS data.
 - Tuning. "Tuning" means adjusting the combustors in accordance with the manufacturer's recommendations (or industry standards) or modifying the water-to-fuel ratio to affect a change in the post-combustion air emissions. Such tuning sessions are infrequent. Excess CEMS emissions data collected during tuning may be excluded from the compliance averages.

The permittee shall notify the Compliance Authority within one working day of discovering any emissions in excess of a CEMS standard subject to the specified averaging period. All such reasonably preventable emissions shall be included in any CEMS compliance determinations. All valid emissions data (including data collected during startup, shutdown malfunction and tuning) shall be used to report annual emissions for

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

the Annual Operating Report. [Rules 62-210.370(3), 62-210.700(5) and 62-213.440, F.A.C.; and, Permit No. 0570039-040-AC, Specific Condition 24.]

{Permitting Note: The provisions in Specific Condition O.15.d. were not included in permit No. 0570039-040-AC. The allowance to exclude excess emissions due to tuning is added here at applicant request pursuant to the authority of Rules 62-210.700(5) and 62-213.440, F.A.C., as it is preferable to allow short periods of excess emissions during a tuning activity rather than experiencing long periods of higher emissions from a poorly tuned unit. This provision is only effective for the duration of this Title V permit and will need to be re-requested and approved upon renewal. To become a permanent provision, it should be added to the underlying construction permit for these units at some point in the future if that construction permit is opened for revision.}

- O.16.** Excess Emissions NSPS – NO_x. See 40 CFR 60.4350 and 4380 in Appendix KKKK (NSPS Subpart KKKK Requirements for Stationary Combustion Turbines) of this permit. [40 CFR 60.4350 and 60.4380; and, Permit No. 0570039-040-AC, Specific Condition 25.]
- O.17.** Excess Emissions NSPS - SO₂. See 40 CFR 60.4385 in Appendix 40 CFR 60 KKKK (NSPS Subpart KKKK Requirements for Stationary Combustion Turbines) of this permit. [40 CFR 60.4385 and Permit No. 0570039-040-AC, Specific Condition 26.]

Continuous Monitoring Requirements

- O.18.** Continuous Emissions Monitoring Systems (CEMS). The permittee shall calibrate, maintain and operate the diluent CEMS to measure CO₂ emissions and CEMS to measure and record the emissions of CO and NO_x from each gas turbine in a manner sufficient to demonstrate continuous compliance with the emission standards of this section.
- a. NO_x Monitor. Each NO_x monitor shall be certified pursuant to the specifications of 40 CFR 75. Quality assurance procedures shall conform to the requirements of 40 CFR 75. The annual and required Relative Accuracy Test Audit (RATA) tests required for the NO_x monitor shall be performed using EPA Method 7E or 20 in 40 CFR 60, Appendix A.
 - b. CO Monitor. Each CO monitor shall be certified pursuant to 40 CFR 60, Appendix B, Performance Specification 4 or 4A. Quality assurance procedures shall conform to the requirements of 40 CFR 60, Appendix F. The annual and required RATA tests required for the CO monitor shall be performed using EPA Method 10 in 40 CFR 60, Appendix A, and shall be based on a continuous sampling train. The CO monitor span values shall be set appropriately, considering the allowable methods of operation and corresponding emission standards.
 - c. SO₂ Monitoring. SO₂ monitoring will be in accordance with 40 CFR 75, Appendix TR requirements (using sulfur content and fuel flow rates).
 - d. Diluent Monitor. The carbon dioxide (CO₂) content of the flue gas shall be monitored at the location where CO and NO_x are monitored to correct the measured emissions rates to 15% oxygen. The oxygen content of the flue gas shall be calculated using F-factors that are appropriate for the fuel fired. Each monitor shall comply with the performance and quality assurance requirements of 40 CFR 75. [Rule 62-297.520, F.A.C.; 40 CFR 75; Permit No. 0570039-040-AC, Specific Condition 27.; and, Appendix CEMS for EU 41 and 42 of this permit.]
- O.19.** CEMS Data Requirements. The CEMS shall be calibrated, maintained and operated in the gas turbine stacks to measure and record the emissions of CO and NO_x in a manner sufficient to demonstrate compliance with the CEMS-based emission limits of this section. The CEMS shall express the results in units of ppmvd corrected to 15% oxygen. Upon request by the Department, the CEMS emission rates shall be corrected to ISO conditions to demonstrate compliance with the applicable NO_x standards of 40 CFR 60, Subpart KKKK, Table 1. The permittee shall be in compliance with the terms and conditions contained in Appendix CEMS for EU 41 and 42, Standard Continuous Monitoring Requirements, of this permit. [Permit No. 0570039-040-AC, Specific Condition 28.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

- O.20.** CEMS Annual Emissions Requirement: The owner or operator shall use data from the NO_x and CO CEMS when calculating annual emissions for purposes of computing actual emissions, baseline actual emissions, and net emissions increase, as defined at Rule 62-210.200, F.A.C., and for purposes of computing emissions pursuant to the reporting requirements of Rule 62-210.370(3), F.A.C., Annual Operating Report. In computing the emissions of a pollutant, the owner or operator shall account for the emissions during periods of startup and shutdown of the emissions unit. [Rules 62-210.200(Definitions) and 62-210.370(3), F.A.C.; and, Permit No. 0570039-040-AC, Specific Condition 29.]
- O.21.** CEMS - Appendix CEMS for EU 41 and 42. Additional requirements applicable to the CEMS are given in the attached **Appendix CEMS for EU 41 and 42**, which is a part of this permit. [Permit No. 0570039-040-AC)]

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

- O.22.** Test Methods. Required tests shall be performed in accordance with the following reference methods:

<u>Method</u>	<u>Description of Method and Comments</u>
<u>1-4</u>	<u>Methods for Determining Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content:</u> These methods shall be performed as necessary to support other methods.
<u>5</u>	<u>Method for Determining Particulate Matter Emissions</u>
<u>7E</u>	<u>Determination of NO_x Emissions from Stationary Sources (Instrumental)</u>
<u>6 or 6C</u>	<u>Determination of SO₂ Emissions from Stationary Sources</u>
<u>8</u>	<u>Determination of SAM and SO₂ Emissions from Stationary Sources</u>
<u>9</u>	<u>Visual Determination of Opacity of Emissions from Stationary Sources</u>
<u>10</u>	<u>Determination of Carbon Monoxide Emissions from Stationary Sources</u>
<u>18</u>	<u>Measurement of Gaseous Organic Compound Emissions by Gas Chromatography</u> {Note: EPA Method 18 may be used (optional) concurrently with EPA Method 25A to deduct emissions of methane and ethane from the measured VOC emissions.}
<u>19</u>	<u>Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxide Emissions Rates</u>
<u>20</u>	<u>Determination of NO_x, SO₂, and Diluent Emissions from Stationary Combustion Turbines</u>
<u>25A</u>	<u>Determination of Total Gaseous Organic Concentrations Using a Flame Ionization Analyzer</u>

The methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used for compliance testing unless prior written approval is received from the Administrator of the Department's Emissions Monitoring Section in accordance with an alternate sampling procedure pursuant to Rule 62-297.620, F.A.C. [40 CFR 60, Appendix A; Rule 62-204.800, F.A.C.; and, Permit No. 0570039-040-AC, Specific Condition 13.]

- O.23.** Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

- O.24.** Annual Compliance Testing. During each federal fiscal year (October 1st to September 30th), annual compliance tests for visible emissions shall be conducted. For each visible emissions test, emissions of CO and NO_x recorded by the CEMS shall also be reported. [Rules 62-297.310(7)(a) and (b), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 16.]
- O.25.** Compliance Tests Prior To Renewal. See Specific Condition O.24. [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]
- O.26.** Visible Emissions. The test method for visible emissions shall be EPA Method 9, incorporated in Chapter 62-297, F.A.C. [Rule 62-297.401, F.A.C. and Permit No. 0570039-040-AC, Specific Condition 13.]
- O.27.** CO Compliance. Continuous compliance shall be demonstrated with the 3-hour rolling average CO emission limits by data collected by the required CEMS. CO will be used as a surrogate for VOC emissions as a demonstration of good combustion. [Rule 62-4.070(3), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 13.]
- O.28.** Nitrogen Oxide. The permittee shall conduct an annual Relative Accuracy Test Audit (RATA) on each SCCT to demonstrate compliance with the short-term NO_x emission limits (ppmvd @ 15% O₂ and lb/hr (mass emissions)) per fuel type. Continuous compliance shall be demonstrated with the 4-hour rolling average NO_x emission limits by data collected from the required continuous emissions monitoring system (CEMS). When firing ULSD, compliance with the SIP limit ensures compliance with the NSPS limit of 74 ppmvd @ 15% O₂. When firing both NG and ULSD, compliance with the NSPS limit is ensured by complying with either the NSPS limit, for NG, or the SIP limit, for ULSD, depending on the contribution of the fuels of the total heat input: if the total heat input contribution is equal to or greater than 50 percent from NG, you must meet the corresponding limit for a NG-fired turbine when you are burning that fuel; similarly, when your total heat input contribution is greater than 50 percent from ULSD, you must meet the corresponding limit for ULSD for the duration of the time that you burn that particular fuel. [40 CFR 60.4350(g) and Permit No. 0570039-040-AC, Specific Condition 13.]
- O.29.** NSPS Compliance Demonstrations for NO_x. See 40 CFR 60.4400 and 4405 in Appendix 40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines of this permit for the compliance demonstration requirements for NO_x. [40 CFR 60.4400 and 60.4405; and Permit No. 0570039-040-AC, Specific Condition 17.]
- O.30.** NSPS Compliance Demonstrations for Sulfur. See 40 CFR 60.4415 in Appendix 40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines of this permit for the compliance demonstration requirements for SO₂. A one-time compliance test on one CT was conducted for SO₂ mass emissions in order to satisfy compliance with the mass limit and the quality of the NG and ULSD. Afterwards, the use of NG and ULSD in accordance with the permit and 40 CFR 60.4415 will be used as a surrogate for SO₂ emissions. [40 CFR 60.4415 and Permit No. 0570039-040-AC, Specific Condition 18.]
- O.31.** Continuous Compliance. The permittee shall demonstrate continuous compliance with the 3-hour rolling average CO emissions standards and with the 4-hour rolling average NO_x emission standards based on data collected by the required CEMS. Within 45 days of conducting any RATA on a CEMS that represents the annual compliance test, the permittee shall submit a report to the Compliance Authority summarizing results of the RATA. If the RATA on a CEMS was not conducted as an annual compliance test, then the results can be submitted with the SIP Quarterly or Semiannual Report. Compliance with the CO emission standards also serves as an indicator of efficient fuel combustion, which also reduces emissions of PM. [Rules 62-4.070(3) and 62-297.310(7)(a) and (b), F.A.C.; and, Permit No. 0570039-040-AC, Specific Condition 19.]

Recordkeeping and Reporting Requirements

- O.32.** Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

<u>Report</u>	<u>Reporting Deadline</u>	<u>Related Conditions</u>
<u>CEMS RATA Reports</u>	<u>15 days prior to RATA</u>	<u>O.38.</u>
<u>Excess Emissions Reporting</u>	<u>Various</u>	<u>O.39.</u>
<u>Notification of Tuning</u>	<u>One day prior to tuning</u>	<u>O.40.</u>

[Rule 62-213.440, F.A.C.]

O.33. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

O.34. CEMS RATA Reports. At least 15 days prior to conducting any RATA on a CEMS, the permittee shall notify the Compliance Authority of the schedule (letter, email, fax, or phone call). A summary of the RATA reports shall be provided upon written request of the Compliance Authority and in the SIP Excess Emissions Report as specified in Specific Condition O.39. [Rule 62-4.070(3), F.A.C.]

O.35. Excess Emissions Reporting.

a. Malfunction Notification. If emissions in excess of a standard (subject to the specified averaging period) occur due to malfunction, the permittee shall notify the Compliance Authority within (1) working day 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 Department may request a written summary report of the incident.

b. SIP Excess Emissions Report. Within 30 days following the end of each calendar quarter, the permittee shall submit a report to the Compliance Authority of the following for each gas turbine using the NSPS format in 40 CFR 60.7(c), Subpart A: a summary of the 4-hour rolling average NO_x compliance periods for the quarter; a summary of the 3-hour rolling average CO compliance periods for the quarter; a summary of NO_x and CO data excluded for the quarter; a summary of any RATA tests performed during the quarter; and a summary of the CEMS systems monitor availability for the quarter.

(1) If four consecutive quarterly reports demonstrate compliance with the CEMS-based emissions standards, the reporting frequency may be reduced to semiannual reporting. As part of the fourth consecutive satisfactory quarterly report, the permittee shall provide written notification of its intent to reduce the reporting frequency to a semiannual basis. The notification shall include a statement that the units were in full compliance during the four consecutive quarters and that reporting will be reduced to a semiannual basis. Semiannual reports shall include all of the above information required for each quarter in the semiannual period. The permittee shall continue to comply with all other record keeping and monitoring provisions.

(2) If reports are being submitted on a semiannual basis and a unit is not in compliance with the CEMS-based emissions standards, the permittee shall immediately (within one day of detection) notify the Compliance Authority of the compliance status and reestablish quarterly reporting beginning with the current quarter. If compliance is reestablished for four consecutive quarters, semiannual reporting may resume as specified above.

c. NSPS Reporting. For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under 40 CFR 60, Subpart KKKK, the owner or operator must submit reports of excess emissions and monitor downtime, in accordance with 40 CFR 60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown and malfunction.

{Note: If there are no periods of excess emissions as defined in 40 CFR 60, Subpart KKKK, a statement to that effect may be submitted with the SIP Quarterly Report to suffice for the NSPS Semiannual Report.}

[40 CFR 60.7 and 60.4375; Rules 62-4.130, 62-204.800 and 62-210.700(6); and, Permit No. 0570039-040-AC, Specific Condition 36.]

O.36. Notification of Tuning. If emissions in excess of a standard could reasonably be expected to occur due to a planned tuning activity, the permittee shall notify the Compliance Authority at least one working day prior to the expected activity of the nature, extent, and duration of the planned tuning activity. In addition, the

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection O. Emissions Units -041 & - 042

Department may request a written summary report of the extent and duration of the resulting excess emissions. [Rule 62-213.440, F.A.C.]

- O.37. Test Reports. The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix TR, Facility-Wide Testing Requirements of this permit. [Rule 62-297.310(8), F.A.C. and Permit No. 0570039-040-AC, Specific Condition 30.]
- O.38. Monitoring and Recording of Capacity. The permittee shall monitor and record the heat input of each CT on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown and malfunction). This shall be achieved through monitoring daily rates of consumption and heat content of each allowable fuel in accordance with the provisions of 40 CFR 75, Appendix D, and recording the data using a monitoring component of the CEMS required above (see Appendix CEMS for EU 41 and 42 of this permit). [Permit No. 0570039-040-AC, Specific Condition 31.]
- O.39. Monthly Operations Summary. By the 15th calendar day of each month, the permittee shall record the following for each fuel in a written or electronic log for the combustion turbine for the previous month of operation: fuel consumption, hours of operation and the updated calendar year totals for each. Information recorded and stored as an electronic file shall be available for inspection and printing within at least three days of a request by the Department. [Permit No. 0570039-040-AC, Specific Condition 32.]
- O.40. Fuel Sulfur Records. The permittee shall demonstrate compliance with the fuel sulfur limits specified in this permit by maintaining the following records of the sulfur contents.
- a. Natural Gas Sulfur Limit. Compliance with the fuel sulfur limit for natural gas shall be demonstrated by keeping reports obtained from the vendor indicating the average sulfur content of the natural gas being supplied from the pipeline for each month of operation. A representative sample shall be collected using ASTM D5287. Methods for determining the sulfur content of the natural gas shall be ASTM methods D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gaseous Processors Association Standard 2377, or more recent versions, or through provisions listed in 40 CFR 60, Subpart KKKK that allows alternate NG fuel sulfur monitoring.
 - b. ULSD Fuel Sulfur Limit. Compliance with the fuel sulfur limit for ULSD fuel shall be demonstrated by keeping each bill of lading report obtained from the vendor indicating the sulfur content, percent by weight, of the ULSD fuel being delivered. A representative sample shall be collected using ASTM D5287. Methods for determining the sulfur content of the ULSD fuel shall be ASTM methods D1072, or alternatively D3246, D4084, D4468, D4810, D6228, D6667, or Gaseous Processors Association Standard 2377, or more recent versions, or through provisions listed in 40 CFR 60, Subpart KKKK that allows alternate sulfur monitoring for ULSD.

The above methods shall be used to determine the fuel sulfur content in conjunction with the provisions of 40 CFR 60.4415 contained in Appendix 40 CFR 60, Subpart KKKK, Standards of Performance for Stationary Combustion Turbines of this permit. [40 CFR 60.4415; Rules 62-4.070(3) and 62-4.160(15), F.A.C., and Permit No. 0570039-040-AC, Specific Condition 33.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection P. Emissions Units -029 & - 030

The specific conditions in this section apply to the following emissions units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
<i>Fuel Blending and Crushing</i>	
-029	Fuel Blending Bin Cyclone Collectors (FH-032 through FH-035)
-030	Fuel Mill Cyclone Collectors (FH-048 and FH-049)

These emissions units consist of solid fuel crushing and blending activities as described in more detail below.

Solid fuel (consisting of coal and petcoke) is unloaded from ships and barges into the solid fuel yard (see EU ID No. -010), the blending bins or directly to the tripper room via belt conveyors. Solid fuel may also be received/unloaded by railcar (see EU ID No. -047) and conveyed to the fuel yard. Solid fuel from the storage 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 (see EU ID No. -046). Particulate matter (PM) emissions from the conveyors in the blending bins are controlled by 4 rotoclones. One at the conveyor drop and 3 additional rotoclones (one for every 2 bins) control particulate matter from ventilation of the blending 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. E.U. ID Nos. -029 and -030 began commercial operation in 1970. The fuel blending bin cyclones collectors and the fuel mill cyclone collectors each have their own stacks with the following stack parameters: height, 179 feet; diameter, 1.67 feet; exit temperature, 77 degrees F; and, actual stack gas flow rate, 9,400 acfm.

{Permitting note(s): These emissions units are regulated under Rule 212.400(5), F.A.C., Prevention of Significant Deterioration [PSD-FL-040]; Rule 62-296.711, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter (PM) - Materials Handling, Sizing, Screening, Crushing and Grinding Operations; Rule 62-210.300, F.A.C., Permits Required; Power Plant Siting Certification [PA 79-12]; and, Chapter 1-3:52, Rules of the EPC, Rules of the Environmental Protection Commission (EPC) of Hillsborough County.}

Authorized Emissions Points

The emissions units contained in this subsection are comprised of the following emissions points:

<u>E.U. ID No. -029: Fuel Blending Bin Cyclone Collectors</u>	
<u>Point ID</u>	<u>Description of Emissions Point</u>
FH-032-FH035	Conveyors Q1 and Q2 to Blending Bins

<u>E.U. ID No. -030: Fuel Mill Cyclone Collectors</u>	
<u>Point ID</u>	<u>Description of Emissions Point</u>
FH-048	Conveyor T1 to Crusher #1
FH-049	Conveyor T2 to Crusher #2

Essential Potential to Emit (PTE) Parameters

{Permitting Note: The handling capacity for the conveyors and equipment that comprises the solid fuel yard emissions points is not specifically limited; however, the design capacity for the majority of the handling equipment is 4,000 tons per hour. The total annual solid fuel handling capacity is inherently limited by the amount of fuel that Boilers 1 – 4 can burn (5-6 million tons per year) plus the amount of solid fuel that can be transloaded for off-site shipment (1,428,030 tons per year, see E.U. ID No. -046). In addition, permit No.

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection P. Emissions Units -029 & - 030

0570039-041-AC established an annual limit of 8 million tons per year of solid fuel that can be received by railcar (see E.U. ID No. -047).}

P.1. Methods of Operation – Materials Handling. The materials that are allowed to be handled by these emissions units are coal, petroleum coke, slag and residual coal (generated at the TEC Polk Power Station). [PA 79-12 and Permit No. 0570039-012-AC]

P.2. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200 (Definitions - Potential to Emit (PTE), F.A.C. and PA 79-12]

Control Technology

P.3. PM Control Devices. Particulate matter emissions shall be controlled by use of control devices. [PA 79-12.]

{Permitting Note: This requirement is satisfied by the use of cyclone collectors on the blending bins and finish mill.}

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions P.4. and P.5. are based on the specified averaging time of the applicable test method.

P.4. VE/Opacity Limit. As determined by annual compliance tests, visible emissions shall not exceed 5% opacity. [Rule 62.296.711(2), F.A.C.; Chapter 1-3.52, Rules of the EPC; and, PA 79-12]

P.5. Particulate Matter (PM). As determined by annual compliance tests, emissions of PM from the stacks of the cyclone collectors shall not exceed 0.03 grains per dry standard cubic feet (gr/dscf). [Rule 62-296.711(2)(b), F.A.C. and PA 79-12]

Excess Emissions

P.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.]

P.7. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

P.8. Test Methods. Required tests shall be performed in accordance with the following reference method(s):

<u>Method(s)</u>	<u>Description of Method(s) and Comment(s)</u>
<u>EPA Method 5</u>	<u>Method for Determining Particulate Matter Emissions</u>
<u>EPA Method 9</u>	<u>Visual Determination of the Opacity of Emissions</u>

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection P. Emissions Units -029 & - 030

- P.9.** Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]
- P.10.** Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), VE and PM tests shall be performed to demonstrate compliance with the standards specified in Specific Conditions **P.4.** and **P.5.** [Rules 62-297.310(7), F.A.C. and 62-4.070(1) & (3) (Reasonable Assurance), F.A.C.; and, PA 79-12.]
- P.11.** Compliance Test Prior To Renewal. Prior to permit renewal, VE and PM tests shall be performed to demonstrate compliance with the standards specified in Specific Conditions **P.4.** and **P.5.** [Rule 62-297.310(7)(a)3., F.A.C.]
- P.12.** Visible Emissions Test. Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of the annual test shall be 30 minutes. [Rules 62-4.070(3), 62-296.711(3)(a) and 62-297.310(4)(a)2., F.A.C.]
- P.13.** PM Test. Compliance with the PM limit of this permit shall be demonstrated by an annual compliance test using EPA Method 5. The minimum sample volume shall be 30 dry standard cubic feet. [Rule 62-296.711(3)(b), F.A.C.]

Recordkeeping and Reporting Requirements

- P.14.** Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]
- P.15.** Fuel Daily Log. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values. [PA 79-12]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection Q. Emissions Unit -046

The specific conditions in this section apply to the following emissions units:

<u>E.U. ID No.</u>	<u>Brief Description</u>
	<u>Solid Fuel Yard</u>
<u>-046</u>	<u>Transloading and Off-site Transfer</u>

This emissions unit is housed within the solid fuel yard and is comprised of transfer and loading equipment designed to take material from the blending bins (E.U. ID No. -029) and/or the storage piles in the fuel yard (E.U. ID No. -010) and, using front-end loaders, load it onto trucks or trains for shipment to off-site locations. The material that is allowed to be loaded for off-site shipment is coal, petcoke and slag. The main purpose of the transloading operation is to provide coal and petcoke to the Tampa Electric Company Polk Power Station; however, the permittee is authorized to operate as a fuel and slag supplier to other non-Tampa Electric Company facilities, as well. The coal or petcoke is 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.

{Permitting note(s): This emissions unit is regulated under Rule 62-210.300, F.A.C., Permits Required: Rule 62-296.711, F.A.C., Reasonably Available Control Technology (RACT) Particulate Matter (PM) - Materials Handling, Sizing, Screening, Crushing and Grinding Operations; Power Plant Siting Certification [PA 79-12]; and, Chapter 1-3.52, Rules of the EPC, Rules of the Environmental Protection Commission (EPC) of Hillsborough County.}

Authorized Emissions Points

Emissions unit ID No. -046 is comprised of the following emissions points:

<u>Point ID</u>	<u>Description of Emissions Point</u>
<u>FH-065</u>	<u>Loadout Conveyor to Rail Transfer Conveyor</u>
<u>FH-066</u>	<u>Railcar Loading</u>
<u>FH-067</u>	<u>Non-TEC Fuel Stockpile to Loadout Conveyor</u>
<u>FH-068</u>	<u>Non-TEC Fuel Truck Loading</u>
<u>FH-069</u>	<u>Polk Fuel Truck Loading</u>
<u>FH-074a</u>	<u>Reclaim from Petcoke Storage Pile to Trucks</u>
<u>FH-074b</u>	<u>Reclaim from Coal Storage Pile to Trucks</u>
<u>FH-074c</u>	<u>Reclaim from Slag Storage Pile to Trucks</u>
<u>FH-075a</u>	<u>Truck Traffic (paved roads, empty trucks)</u>
<u>FH-075b</u>	<u>Truck Traffic (paved roads, full trucks)</u>
<u>FH-076a</u>	<u>Truck Traffic (unpaved roads, empty trucks)</u>
<u>FH-076b</u>	<u>Truck Traffic (unpaved roads, full trucks)</u>

Essential Potential to Emit (PTE) Parameters

Q.1. Permitted Capacity.

- a. Hourly Limit. From each fuel transloading source/emissions point (i.e., off-loading and loading of fuel/slag for export from Big Bend Station), the maximum hourly transloading transfer of fuel shall not exceed 4,000 tons, 24-hour rolling average. [PA 79-12; PA 79-12C and D; and Permit No. 0570039-025-AC]
- b. Annual Limits.

(1) The maximum solid fuel/slag transloading rates for these emissions points shall not exceed 1,428,030 tons per year. [PA 79-12; PA 79-12C and D; and Permit No. 0570039-025-AC]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection Q. Emissions Unit -046

(2) The maximum annual transloading rates for Emissions Points FH-74a – FH-76b shall not exceed 150,000 tons per year for each material (coal, petcoke, slag) and 450,000 tons per year for all three materials combined; and, only one material shall be transloaded at a time. [Permit No. 0570039-025-AC]

Q.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]

Q.3. Methods of Operation.

- a. Materials Allowed. The materials that are allowed to be handled by the emissions points that comprise this emissions unit are coal, petroleum coke and slag.
- b. Material Not Allowed. The emission points listed above as FH-074a, b and c, FH-075a and b, and FH-076a and b are not allowed to transload residual coal.
[PA 79-12 and Permit No. 0570039-025-AC]

Q.4. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C. and Permit No. 0570039-025-AC]

Control Technology

Q.5. Controls of Particulate Matter. The emissions related to the transloading activities is fugitive in nature resulting from unconfined emissions. Reasonable precautions to prevent unconfined emissions of particulate matter from the transloading-related emissions points include:

- a. Paving and maintenance of roads, parking areas and yards where possible.
- b. Application of water or chemicals to control emissions as needed.
- c. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
- d. Landscaping or planting of vegetation.
- e. Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent particulate matter.
- f. Confining abrasive blasting where possible.
- g. Maintaining enclosures or coverings of conveyor systems and transfer points where possible.
- h. Trucks used to transport coal, petcoke or slag shall utilize tarps at all times except when loading/unloading.

[Rules 62-296.320(4)(c) and Permit No. 0570039-025-AC]

Emission Limitations and Standards

{Permitting Note: The attached Table I, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging time for Specific Conditions Q.6. is based on the specified averaging time of the applicable test method.

Q.6. Visible Emissions. Visible emissions generated by fugitive or unconfined particulate matter from this transloading operation shall not exceed 20% opacity. [Rule 62-296.320(4)(b)1., F.A.C.; PA-79-12; and, Permit No. 0570039-025-AC.]

Excess Emissions

Q.7. 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.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection Q. Emissions Unit -046

Q.8. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

Q.9. Test Methods. Required tests shall be performed in accordance with the following reference methods:

<u>Method(s)</u>	<u>Description of Method(s) and Comment(s)</u>
<u>EPA Method 9</u>	<u>Visual Determination of the Opacity of Emissions</u>

The above methods are described in Chapter 62-297, F.A.C. and/or 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Chapter 62-297, F.A.C.]

Q.10. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

Q.11. Annual Compliance Test. Annual testing shall be performed on emissions points FH-074a and FH-074b. 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.; and, Permit No. 0570039-025-AC]

{Permitting note: No annual testing is required for emission point FH-074c based on the initial visible emissions test conducted on May 2, 2007 indicating that slag handling has minimal emissions.}

Q.12. Compliance Test Prior To Renewal. Prior to permit renewal, VE tests shall be conducted on emissions points FH-074a and FH-074b. 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. [Rule 62-297.310(7)(a)3, F.A.C. and Permit No. 0570039-025-AC]

Q.13. Visible Emissions Test. Compliance with the visible emission limits of this permit shall be demonstrated by an annual compliance test using EPA Method 9. The duration of the annual test shall be 30 minutes. [Rules 62-4.070(3) and 62-297.310(4)(a)2., F.A.C.; and, Permit No. 0570039-025-AC]

Recordkeeping and Reporting Requirements

Q.14. Recordkeeping and Reporting. The number of railcars and trucks and the quantity and type of material loaded and transported off-site by each fuel transloading operation emissions point covered in this permit (i.e., off-loading and loading of fuel or slag {for export from Big Bend Station}) shall be recorded, maintained, and kept on file for a minimum of five years. 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. [PA 79-12 and Permit No. 0570039-025-AC]

Q.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440, F.A.C.]

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection R. Emissions Unit -047

The specific conditions in this section apply to the following emissions unit:

<u>E.U. ID No.</u>	<u>Brief Description</u>
	<u>Solid Fuel Yard</u>
<u>-047</u>	<u>Railcar Unloading and Conveying System</u>

As an alternative to receiving solid fuel or slag by ship and/or barge, these materials may be delivered by railcar in the railcar unloading building. The railcar unloading building is an enclosed structure (except for the railcar entrance and exit openings), designed to receive material through a slow and controlled continuous unloading process. The railcar will drop the material as each railcar unit enters the unloading building and will continue to discharge the material from its tapered bottom chutes until the railcar reaches the exit end of the building. Once the material is discharged from the railcars, it drops through a stationary safety screen and into collecting hoppers. Each collecting hopper has tapered discharge chutes equipped with slide gates. From the collecting hoppers, the material falls directly onto a variable speed belt which feeds to the series of conveyors that transfers the material to the existing P1 or F1 conveyors of the solid fuel yard (see E.U. ID No. -010). The series of conveyors associated with the Railcar Coal Unloading System consist of conveyors C-10, C-11, C-12, C-13, C-14, C-15 and C-16. The fugitive emission controls include covers on all belt conveyors, enclosures on all transfer/drop points, and a fog type dust suppression system utilizing misters and surfactants is used within the enclosures as needed. The railcar unloading and conveying system is designed for a transport rate of 4,000 tons per hour (TPH) (24-hour rolling average).

Authorized Emissions Points

Emissions unit ID No. -047 is comprised of the following emissions points:

<u>Point ID</u>	<u>Description of Emissions Point</u>
<u>RC-1</u>	<u>Train Car Drop Unloading on Conveyor C-10</u>
<u>RC-2</u>	<u>Conveyor C-10 to Conveyor C-11</u>
<u>RC-3</u>	<u>Conveyor C-11 to Conveyor C-12</u>
<u>RC-4</u>	<u>Conveyor C-12 to Conveyor C-13</u>
<u>RC-5</u>	<u>Conveyor C-13 to Conveyor C-14</u>
<u>RC-6</u>	<u>Conveyor C-14 to Conveyor C-15</u>
<u>RC-7</u>	<u>Conveyor C-15 to Conveyor C-16</u>
<u>RC-8</u>	<u>Conveyor C-16 Drop to Belt Feeder BF-1</u>
<u>RC-9</u>	<u>Transfer from BF-1 to C-1</u>

Essential Potential to Emit (PTE) Parameters

- R.1. Permitted Capacity. The maximum unloading rate is 4,000 tons per hour (24-hour rolling average). The maximum annual transfer for the railcar unloading operations is 8,000,000 tons per year. [Rule 62-210.200(PTE), F.A.C. and Permit No. 0570039-041-AC]
- R.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]
- R.3. Methods of Operation. The materials that are allowed to be handled in the Railcar Unloading and Conveying System are coal, petcoke and slag. [Rule 62-213.440, F.A.C. and Permit No. 0570039-041-AC]
- R.4. Hours of Operation. The hours of operation are not limited (8,760 hours per year). [Rules 62-210.200 (PTE) and 62-213.440, F.A.C.]

Control Technology

- R.5. Railcar Coal Unloading Building. The permittee shall utilize the water/surfactant dust suppression

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection R. Emissions Unit -047

system to control particulate matter emissions from the railcar unloading hopper.
[Rule 62-213.440, F.A.C. and Permit No. 0570039-041-AC]

R.6. Railcar Coal Unloading Conveying System. The permittee shall utilize a water/surfactant dust suppression system to control particulate matter emissions from the railcar unloading conveying system.
[Rule 62-213.440, F.A.C. and Permit No. 0570039-041-AC]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging time for Specific Conditions R.7. is based on the specified averaging time of the applicable test method.

R.7. Opacity. As determined by EPA Method 9, visible emissions from the railcar coal unloading system shall not exceed 20% opacity. [40 CFR 60, Subpart Y (Standards of Performance for Coal Preparation Plants) and Permit No. 0570039-041-AC]

{Permitting Note: In addition, the requirements in 40 CFR 60, New Source Performance Standard (NSPS) Subpart Y for Coal Preparation Plants, have been proposed to be amended on April 28, 2008 and would be applicable to all sources addressed in this standard and constructed after that date. These amended standards, including installing a baghouse on the railcar unloading building may become applicable to this project when these standards become final and are adopted in the Florida rules.}

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

R.8. Excess Emissions Allowed. Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.]

R.9. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

R.10. Test Methods. Required tests shall be performed in accordance with the following reference methods.

<u>Method</u>	<u>Description of Method and Comments</u>
<u>1-4</u>	<u>Methods for Determining Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content: These methods shall be performed as necessary to support other methods. (IF REQUIRED)</u>
<u>5</u>	<u>Method for Determining Particulate Matter Emissions (IF REQUIRED)</u>
<u>9</u>	<u>Visible Emissions Test</u>

The methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used for compliance testing unless prior written approval is received from the

SECTION III. EMISSIONS UNITS SPECIFIC CONDITIONS

Subsection R. Emissions Unit -047

Administrator of the Department's Emissions Monitoring Section in accordance with an alternate sampling procedure pursuant to Rule 62-297.620, F.A.C. [Rule 62-204.800, F.A.C. and 40 CFR 60, Appendix A]

R.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

R.12. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), the Railcar Unloading Building vents shall be tested to demonstrate compliance with the emissions standard for visible emissions. [Rule 62-297.310(7)(a)4, F.A.C. and Permit No. 0570039-041-AC]

Reporting And Recordkeeping Requirements

R.13. Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements. [Rule 62-213.440, F.A.C.]

SECTION VI. APPENDICES.

The Following Appendices Are Enforceable Parts of This Permit:

- Appendix A, Glossary.
- Appendix BOP, Best Operational Practices for Start up and Shutdown.
- Appendix CAM, Compliance Assurance Monitoring Plan.
- Appendix CD, Consent Decree (U.S. EPA vs. TECO).
- Appendix CEMS.
- Appendix CEMS for EU 41 and 42.
- Appendix CFJ, Consent Final Judgment (DEP vs. TECO).
- Appendix CP-1 Compliance Plan.
- Appendix 40 CFR 60, Subpart A, General Provisions.
- Appendix 40 CFR 60, Subpart Da, Standards of Performance for Fossil-Fuel Fired Steam Generators.
- Appendix 40 CFR 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.
- Appendix 40 CFR 60, Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
- Appendix 40 CFR 60, Subpart KKKK, Requirements for Stationary Combustion Turbines
- Appendix 40 CFR 63, Subpart A, General Provisions.
- Appendix 40 CFR 63, Subpart II, National Emission Standards for Shipbuilding and Ship Repair (Surface Coating).
- Appendix 40 CFR 63, Subpart ZZZZ, National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.
- ~~Appendix F, Solid Fuel Yard Fugitives - Emissions Points.~~
- Appendix I, List of Insignificant Emissions Units and/or Activities.
- Appendix O&M, Operation and Maintenance Plan under RACT for PM.
- Appendix RR, Facility-wide Reporting Requirements.
- Appendix TR, Facility-wide Testing Requirements.
- Appendix TV, Title V General Conditions.
- Appendix U, List of Unregulated Emissions Units and/or Activities.

Friday, Barbara

To: 'rdbishop@tecoenergy.com'
Cc: plcarpinone@tecoenergy.com; 'Byron Burrows'; 'jmward@tecoenergy.com'; 'Tom Davis'; 'lee@epchc.org'; Zhang-Torres; 'Kathleen Forney'; Halpin, Mike; Ana Oquendo; Gibson, Victoria; Bass, Andrew; Holtom, Jonathan
Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV
Attachments: 0570039-045-AV SignedWrittenNoticeofIntent.pdf

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Attention: Andrew Bass

Owner/Company Name: TAMPA ELECTRIC COMPANY
Facility Name: BIG BEND STATION
Project Number: 0570039-045-AV
Permit Status: DRAFT/PROPOSED
Permit Activity: PERMIT REVISION
Facility County: HILLSBOROUGH

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570039.045.AV.D_pdf.zip

“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. Access these documents by clicking on the link provided above, or search for other project documents using the “*Air Permit Documents Search*” website at <http://www.dep.state.fl.us/air/emission/apds/default.asp> . “

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)717-9095

Friday, Barbara

From: Microsoft Exchange
To: Tom Davis
Sent: Friday, January 28, 2011 12:12 PM
Subject: Relayed: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

Tom Davis

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Microsoft Exchange
To: lee@epchc.org
Sent: Friday, January 28, 2011 12:11 PM
Subject: Relayed: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

lee@epchc.org

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Microsoft Exchange
To: Zhang-Torres; Halpin, Mike; Holtom, Jonathan; Gibson, Victoria
Sent: Friday, January 28, 2011 12:11 PM
Subject: Delivered: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message has been delivered to the following recipients:

Zhang-Torres

Halpin, Mike

Holtom, Jonathan

Gibson, Victoria

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Zhang-Torres
To: Friday, Barbara
Sent: Friday, January 28, 2011 12:29 PM
Subject: Read: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Friday, January 28, 2011 12:29:16 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Halpin, Mike
Sent: Friday, January 28, 2011 12:22 PM
To: Friday, Barbara
Subject: Delivered: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV
Attachments: ATT00001

Your message was delivered to the recipient.

Friday, Barbara

From: Halpin, Mike
To: Friday, Barbara
Sent: Friday, January 28, 2011 12:27 PM
Subject: Read: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Friday, January 28, 2011 12:26:58 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Holtom, Jonathan
To: Friday, Barbara
Sent: Friday, January 28, 2011 1:02 PM
Subject: Read: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Friday, January 28, 2011 1:01:39 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Gibson, Victoria
To: Friday, Barbara
Sent: Friday, January 28, 2011 12:15 PM
Subject: Read: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Friday, January 28, 2011 12:15:27 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Microsoft Exchange
To: Bass, Andrew
Sent: Friday, January 28, 2011 12:11 PM
Subject: Delivered: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message has been delivered to the following recipients:

Bass, Andrew

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Sent by Microsoft Exchange Server 2007

Friday, Barbara

From: Bass, Andrew
To: Friday, Barbara
Sent: Friday, January 28, 2011 12:31 PM
Subject: Read: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Friday, January 28, 2011 12:31:06 PM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Holtom, Jonathan
To: Friday, Barbara
Sent: Monday, February 07, 2011 10:21 AM
Subject: Read: RE: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Your message was read on Monday, February 07, 2011 10:20:33 AM (GMT-05:00) Eastern Time (US & Canada).

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive02.rtp.epa.gov]
To: forney.kathleen@epa.gov
Sent: Friday, January 28, 2011 12:12 PM
Subject: Relayed: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

forney.kathleen@epa.gov

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Friday, Barbara

From: Mail Delivery System [MAILER-DAEMON@mseive02.rtp.epa.gov]
To: Oquendo.Ana@epamail.epa.gov
Sent: Friday, January 28, 2011 12:12 PM
Subject: Relayed: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:

Oquendo.Ana@epamail.epa.gov

Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Friday, Barbara

From: Ward, Julie M. [jward@tecoenergy.com]
Sent: Friday, January 28, 2011 1:02 PM
To: Friday, Barbara; Bishop, Ron D.
Cc: Carpinone, Paul L.; Burrows, Byron T.; 'Tom Davis'; 'lee@epchc.org'; Zhang-Torres; 'Kathleen Forney'; Halpin, Mike; 'Ana Oquendo'; Gibson, Victoria; Bass, Andrew; Holtom, Jonathan
Subject: RE: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

The permit documents can be accessed.

Thank you.

Julie Ward
Engineer
EH&S Air Programs
Tampa Electric Company

Office: (813) 228-4740
Cell: (813) 476-3237
Fax: (813) 228-1308
Email: jward@tecoenergy.com



Please consider the environmental impact before printing this e-mail

From: Friday, Barbara [<mailto:Barbara.Friday@dep.state.fl.us>]
Sent: Friday, January 28, 2011 12:11 PM
To: Bishop, Ron D.
Cc: Carpinone, Paul L.; Burrows, Byron T.; Ward, Julie M.; Tom Davis; lee@epchc.org; Zhang-Torres; Kathleen Forney; Halpin, Mike; Ana Oquendo; Gibson, Victoria; Bass, Andrew; Holtom, Jonathan
Subject: TAMPA ELECTRIC COMPANY - BIG BEND STATION; 0570039-045-AV

Dear Sir/ Madam:

Attached is the official **Written Notice of Intent to Issue Air Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Attention: Andrew Bass

Owner/Company Name: TAMPA ELECTRIC COMPANY
Facility Name: BIG BEND STATION
Project Number: 0570039-045-AV
Permit Status: DRAFT/PROPOSED
Permit Activity: PERMIT REVISION
Facility County: HILLSBOROUGH

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf_permit_zip_files/0570039.045.AV.D_pdf.zip

“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. Access these documents by clicking on the link provided above, or search for other project documents using the “*Air Permit Documents Search*” website at <http://www.dep.state.fl.us/air/emission/apds/default.asp> . “

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation
Division of Air Resource Management (DARM)
(850)717-9095

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Herschel T. Vinyard, Jr. is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.

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