Florida Department of Environmental Protection

Memorandum

TO: Trina Vielhauer, Bureau of Air Regulation

THROUGH: Syed Arif, New Source Review Section SA

FROM: Cleve Holladay, New Source Review Section CH

DATE: December 11, 2008

SUBJECT: Draft Air Permit No. 0570039-041-AC
Tampa Electric Company
Big Bend Station
Railcar Unloading Project

This project is subject to minor source preconstruction review. Attached for your review are the following items:

- Written Notice of Intent to Issue Air Permit;
- Public Notice of Intent to Issue Air Permit;
- Technical Evaluation and Preliminary Determination;
- Draft Permit; and
- P.E. Certification.

The Draft Permit authorizes construction of a railcar unloading system designed to offset and complement the existing coal conveying system currently being used for transferring coal from barges to the solid fuel yard. There will be a railcar unloading building that is enclosed (except for the railcar entrance and exit openings). Once the coal is discharged from the railcars, it will drop through a stationary screen and into coal collecting hoppers. From there the coal will be discharged into a network of conveyors that will transfer the coal to existing conveyors P1 or F1 of the solid fuel yard. The proposed work will be conducted at Tampa Electric Company's Big Bend Station, which is located in Hillsborough County, Florida. The Technical Evaluation and Preliminary Determination provides a detailed description of the project and the rationale for issuance. The P.E. certification briefly summarizes the proposed project. I recommend your approval of the attached Draft Permit.

Attachments

P.E. CERTIFICATION STATEMENT

PERMITTEE

Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

Draft Air Permit No. 0570039-041-AC
Big Bend Power Station
Railcar Coal Unloading Project
Hillsborough County, Florida

PROJECT DESCRIPTION

The proposed project is to construct and operate a Railcar Coal Unloading System designed to offset and compliment the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard.

The Railcar Coal Unloading System will consist of one railcar unloading building and a series of conveyors that connect to the existing P1 or F1conveyors of the solid fuel yard.

The railcar unloading building is an enclosed structure (except for the railcars entrance and exit openings), designed to receive coal as a slow and controlled continuous coal unloading process. The railcar will drop the coal as each railcar unit enters the unloading building and will continue to discharge the coal from its tapered bottom chutes until the railcar reaches the exit end of the building. Once the coal is discharged from the railcars, it will drop through a stationary safety screen called the grizzly and into coal collecting hoppers. Each coal collecting hopper will have tapered discharge chutes equipped with slide gates. From the coal collecting hoppers, the coal will fall directly on a variable speed belt designed to feed coal to the series of conveyors that will transfer the coal to the existing P1 or F1 conveyors of the solid fuel yard. Fugitive emission controls will include building/transfer point enclosure and water/surfactant dust suppression system.

The series of conveyors associated with the Railcar Coal Unloading System will consist of conveyors C-10, C-11, C-12, C-13, C-14, C-15 and C-16. The fugitive emission controls will include hoods on all belt conveyors, all transfer points will be enclosed, and fog type dust suppression system. The coal conveying system is designed for a transport rate of 4,000 tons per hour (TPH) (24-hour rolling average).

The railcar unloading building is an enclosed structure. Fugitive emission controls include building/transfer point enclosure and water/surfactant dust suppression system. The estimated potential emissions increases for particulate matter/particulate matter with a mean diameter equal to or less than 10 microns/ and particulate matter with a mean diameter equal to or less than 2.5 microns ($PM/PM_{10}/PM_{2.5}$) of 1.439, 0.681 and 0.214 tons per year, respectively, are well below the Prevention of Significant Deterioration (PSD) significant emissions rates for PM (25 tons/year) and PM_{10} and $PM_{2.5}$ (15 tons/year) and therefore not subject to preconstruction review.

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).*

Syed Arif

12/11/08

Syed Arif, P.E.
Registration Number: 51861

(Date)

Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

December 12, 2008

Mr. Ron Bishop, Director
Big Bend Power Station
Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

Re: Air Construction Permit No. 0570039-041-AC
Tampa Electric Company
Big Bend Station
Railcar Unloading Project

Dear Mr. Bishop:

On September 22, 2008, Tampa Electric Company submitted an application requesting authorization to construct a railcar unloading facility which includes an enclosed railcar unloading building and a series of conveyors that connect to the existing P1 or F1 conveyors of the solid fuel yard. This facility is located in Hillsborough County at 13031 Wyandotte Road in Apollo Beach, Florida. Enclosed are the following documents:

- Technical Evaluation and Preliminary Determination;
- Draft Permit and Appendices;
- Written Notice of Intent to Issue Air Permit; and
- Public Notice of Intent to Issue Air Permit.

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. If you have any questions, please contact the Project Engineer, Cleve Holladay, at 850/921-8986.

Sincerely,

Trina Vielhauer, Chief
Bureau of Air Regulation

Enclosures

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

In the Matter of an
Application for Air Permit by:

Tampa Electric Company
Big Bend Power Station
Post Office Box 111
Tampa, Florida 33601-0111

Authorized Representative:
Mr. Ron Bishop, Director

Air Permit No. 0570039-041-AC
Facility ID No. 0570039
Big Bend Station
Railcar Unloading Project
Hillsborough County, Florida

Facility Location: Tampa Electric Company operates the Big Bend Station, which is located at 13031 Wyandotte Road, Apollo Beach, Hillsborough County, Florida.

Project: The applicant proposes the following: Construction of a Railcar Unloading System consisting of an enclosed railcar unloading building and a series of conveyors that connect to the existing P1 or F1 conveyors of the solid fuel yard. Fugitive emissions controls will include building/transfer point enclosure and water/surfactant dust suppression system. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. 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 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. 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 an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed 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, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air 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 proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 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 disputed issues of material fact. If there are none, the petition must so state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action 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.

Executed in Tallahassee, Florida.

Trina Vielhauer, Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Public Notice, the Technical Evaluation and Preliminary Determination, and the Draft Permit) was sent by electronic mail (or a link to these documents made available electronically on a publicly accessible server) with received receipt requested before the close of business on 12/12/08 to the persons listed below.

Mr. Ron Bishop, Tampa Electric Company (rbishop@tecoenergy.com)
Mr. Byron Burrows, Tampa Electric Company (btburrows@tecoenergy.com)
Ms. Julie Ward, Tampa Electric Company (jmward@tecoenergy.com)
Mr. Andrew Thuy Nguyen (atnguyen@tecoenergy.com)
Mr. Jerry Campbell, Hillsborough County (campbell@epchc.org)
Ms. Diana Lee, Hillsborough County (lee@epchc.org)
Ms. Mara Nasca, DEP-SWD (mara.nasca@dep.state.fl.us)
Ms. Kathleen Forney, EPA Region 4 (forney.kathleen@epa.gov)
Ms. Vickie Gibson, DEP-BAR (victoria.gibson@dep.state.fl.us) (for read 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) 12/12/08 (Date)

TECHNICAL EVALUATION

AND

PRELIMINARY DETERMINATION

Tampa Electric Company

Big Bend Station
Railcar Coal Unloading Project

Hillsborough County

Project No. 0570039-041-AC

Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
New Source Review Section

December 12, 2008

1. GENERAL PROJECT INFORMATION

- **Facility Description and Location**

Facility Description. The facility is an electric utility, which is categorized under Standard Industrial Classification Code SIC No. 4911.

Tampa Electric Company's Big Bend Station (TECO-Big Bend) is a nominal 2,028 megawatt (MW) electric generation facility. This facility consists of the following emissions units and operations: four steam boilers (Units Nos. 1 - 4); four steam turbines; three simple-cycle combustion turbines (CT Nos. 1, 2, and 3); solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities, and fuel oil storage tanks.

At the present time 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, where the solid fuel may be blended for use at the plant or transloaded into trucks for shipment off site.

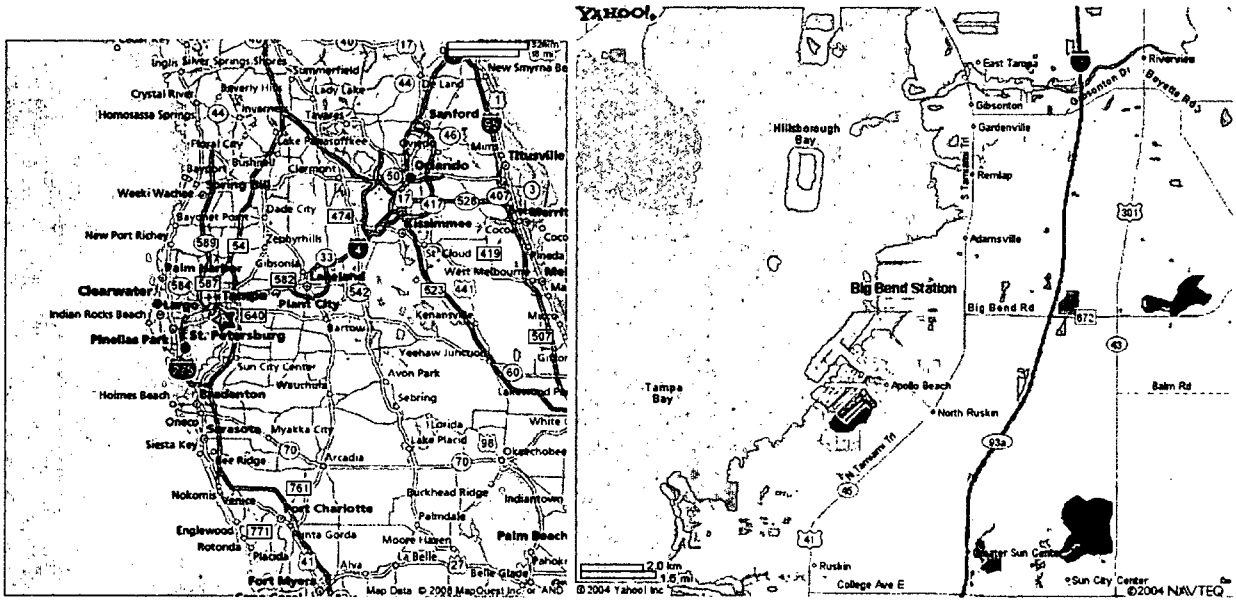
This facility is classified as a Major Source of Air Pollution or Title V Source because emissions at least one regulated air pollutant, such as particulate matter (PM), PM with an aerodynamic diameter equal to or less than 10 microns (PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NOx), carbon monoxide (CO) or volatile organic compounds (VOC), exceeds 100 tons per year (TPY) pursuant to Rule 62-210.200(Definitions), Florida Administrative Code (F.A.C.). This facility is within an industry included in the list of the 28 Major Facility Categories per Rule 62-210.200(Definitions-Major Source of Air Pollution), F.A.C. The Big Bend facility is in an area that is in attainment (or designated as unclassifiable or maintenance) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

Applicant Name and Address:

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

Authorized Representative: Mr. Ron Bishop

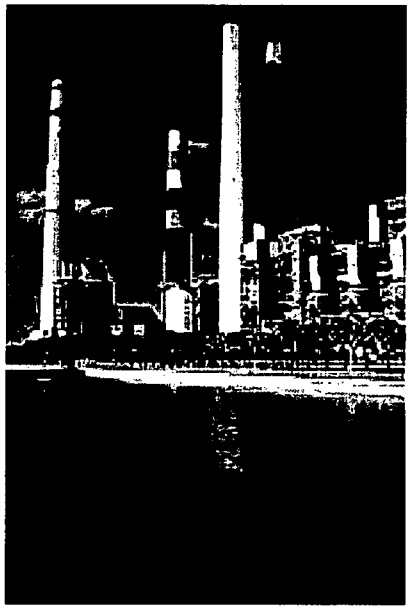
Facility Location. The Big Bend facility is located in Hillsborough County at 13031 Wyandotte Road, Apollo Beach, Florida 33572. The UTM Coordinates are Zone 17, 361.78 km East and 3075.10 km North, and the map coordinates are Latitude 27° 47' 36" and Longitude 82° 24' 11".



LOCATION OF THE FACILITY:
TAMPA, FLORIDA

FACILITY ADDRESS:
13031 WYANDOTTE ROAD, APOLLO BEACH

The following is a picture of the existing Big Bend facility.



TAMPA ELECTRIC COMPANY
BIG BEND STATION

- **Facility Regulatory Categories**

Title III: The existing facility is a major source of hazardous air pollutants (HAP).

Title IV: The existing facility has units subject to the acid rain provisions of the Clean Air Act.

Title V: The existing facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.

Prevention of Significant Deterioration (PSD): The existing facility is a PSD-major source of air pollution in accordance with Rule 62-210.200 (Definitions-Major Source of Air Pollution), F.A.C.

New Source Performance Standards (NSPS): The Railcar Coal Unloading System is subject to 40 Code of Federal Regulations Part 60 (40 CFR 60), Subpart Y (Standards of Performance for Coal Preparation Plants).

- **Project Description**

The proposed project is to construct and operate a Railcar Coal Unloading System designed to offset and complement the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard.

The Railcar Coal Unloading System will consist of one railcar unloading building and a series of conveyors that connect to the existing P1 or F1 conveyors of the solid fuel yard (see attached Figures 1, 2a and 2b).

Project Details: The railcar unloading building is an enclosed structure (except for the railcars entrance and exit openings), designed to receive coal as a slow and controlled continuous coal unloading process. The railcar will drop the coal as each railcar unit enters the unloading building and will continue to discharge the coal from its tapered bottom chutes until the railcar reaches the exit end of the building. Once the coal is discharged from the railcars, it will drop through a stationary safety screen called the grizzly and into coal collecting hoppers. Each coal collecting hopper will have tapered discharge chutes equipped with slide gates. From the coal collecting hoppers, the coal will fall directly on a variable speed belt designed to feed coal to the series of conveyors that will transfer the coal to the existing P1 or F1 conveyors of the solid fuel yard. Fugitive emission controls will include building/transfer point enclosure and water/surfactant dust suppression system.

The series of conveyors associated with the Railcar Coal Unloading System will consist of conveyors C-10, C-11, C-12, C-13, C-14, C-15 and C-16. The fugitive emission controls will include hoods on all belt conveyors, all transfer points will be enclosed, and fog type dust suppression system. The coal conveying system is designed to have a transport rate of 4,000 tons per hour (TPH) (24-hour rolling average). The maximum annual transfer for both railcar and barge unloading operations is 8,000,000 tons per year.

Processing Schedule

September 22, 2008	Received permit application
October 21, 2008	Request for Additional Information (RAI) letter issued
October 30, 2008	Received response to RAI letter
November 20, 2008	Received 30-day review clock waiver from Tampa Electric
November 24, 2008	Teleconference with EPCHC and Tampa Electric; Application deemed complete

facility may be "major" with respect to PSD for only one regulated pollutant, it may be required to install BACT controls for several "significant" regulated pollutants.

For the pollutants of interest in this assessment, significant emissions increase is defined in Rule 62-210.200 (Definitions-Significant Emissions Rate), F.A.C., as follows:

Significant Emissions Rate: With respect to any emissions increase or any ***net emissions increase****, or the potential of a facility to emit any of the following pollutants, significant emissions rate means a rate of pollutant emissions that would equal or exceed:*

a. CO: 100 tons per year (TPY);

b. NOx: 40 TPY;

c. SO_2: 40 TPY;

d. VOC: 40 TPY;

e. PM:

(i) 25 TPY of PM emissions;

(ii) 15 TPY of PM_{10} and $PM_{2.5}$ emissions.

- **PSD Applicability for the Project**

The existing plant emits or has the potential to emit 250 tons per year or more of at least one PSD pollutant. Therefore, the facility is a major stationary source and the project is subject to a PSD applicability review. The applicant provided the following data using emission factors from AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles to summarize the projected emissions increases:

Pollutant	Baseline Actual Emissions (TPY)	Future Projected Emissions (TPY)	Net Change in Emissions (TPY)	PSD Threshold (TPY)	PSD Applies ?
PM	1.069	2.506	1.439	25	**No**
PM_{10}	0.506	1.186	0.681	15	**No**
$PM_{2.5}$	0.159	0.373	0.214	15	**No**

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

In summary, no pollutant exceeds the PSD significant emission rate. Therefore, a PSD preconstruction new source review and BACT Determination are not required and the project is considered to be a minor modification to a major facility.

3. PERMIT CONDITIONS

Brief Discussion of Emissions

This permit applies to the following emissions points described below:

ARMS ID	Emission Point Description
010	Railcar Coal Unloading Building
010	Railcar Coal Unloading Conveying System

2. APPLICABLE REGULATIONS

- **State Regulations**

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes. The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code. This project is subject to the applicable rules and regulations defined in the following Chapters of the Florida Administrative Code.

Chapter	Description
62-4	Permitting Requirements
62-204	Ambient Air Quality Requirements and Federal Regulations Adopted by Reference
62-210	Permits Required, Categorical Exemptions, Public Notice, Reports, Stack Height Policy, Circumvention, Excess Emissions, and Forms
62-212	PSD Review
62-213	Title V Air Operation Permits for Major Sources of Air Pollution
62-297	Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures

- **Federal Regulations**

This project is also subject to the applicable federal provisions regarding air quality as established by the U.S. Environmental Protection Agency (EPA) in the following sections of the Code of Federal Regulations.

40 CFR	Description
Part 60	Subpart A - General Provisions for New Source Performance Standard (NSPS) Sources NSPS Subpart Y – Standards of Performance for Coal Preparation Plants

- **General PSD Applicability**

The Department regulates major air pollution sources in accordance with Florida's PSD program, as approved by the EPA in Florida's State Implementation Plan and defined in Rule 62-212.400, F.A.C. A PSD review is required in areas currently in attainment with the state and federal Ambient Air Quality Standards (AAQS) or areas designated as "unclassifiable" for a given pollutant. Pursuant to Rule 62-210.200(Definitions-Major Source of Air Pollution), F.A.C., a facility is considered "major" with respect to PSD if it emits or has the potential to emit (PTE):

- 250 tons per year or more of any regulated air pollutant;
- 100 tons per year or more of any regulated air pollutant and the facility belongs to one of the 28 PSD Major Facility Categories; or
- 5 tons per year of lead.

For new projects at PSD-major sources, each regulated pollutant is reviewed for PSD applicability based on emissions thresholds known as the significant emissions rate (SER) and defined in Rule 62-210.200 (Definitions-Significant Emissions Rate), F.A.C. Pollutant emissions from the project exceeding these rates are considered "significant" and the applicant must employ the Best Available Control Technology (BACT) to minimize emissions of each such pollutant and evaluate the air quality impacts. Although a

The existing solid fuel yard emission unit has 76 emissions points. [Source: Technical Evaluation and Preliminary Determination, Tampa Electric Company, Off-site Transloading of Coal, Petcoke and Slag Project, 0570039-025-AC]

A total of ten more will be added with this project. There will be train car unloading to the track hopper, a drop to the belt feeder, a transfer to C-1, and then to conveyors 10-16. These conveyors will then connect with the existing conveyor network. Fugitive emission controls will include building/transfer point enclosure and water/surfactant dust suppression system.

The applicant used emission factors from AP-42, Section 13.2.4 for Aggregate Handling and Storage Piles to calculate projected future maximum emissions for PM, PM_{10} and $PM_{2.5}$ to be 2.508, 1.186 and 0.373 tons per year, respectively.

However, the Environmental Protection Commission of Hillsborough County (EPCHC) requested that TECO calculate particulate matter emission rates from AP-42, Section 11-9, Western Surface Coal Mining, Table 11-9-1 or from Table 1, Fugitive Dust Emission Factors for Coal-Processing Plants, in the Air & Waste Management Association Air Pollution Engineering Manual, Second Edition, Chapter 15. The Department maintains that emission factors that were from AP-42, Section 13.2.4, Aggregate Handling and Storage Piles are applicable. The United States Environmental Protection Agency Region IV concurs with the Department. However, the Department and the EPCHC agreed that if the visible emissions test results for the vent on the railcar unloading building exceed 5% opacity then TECO shall perform a particulate matter stack test to determine whether further PM controls are needed, i.e., a baghouse on the railcar unloading building.

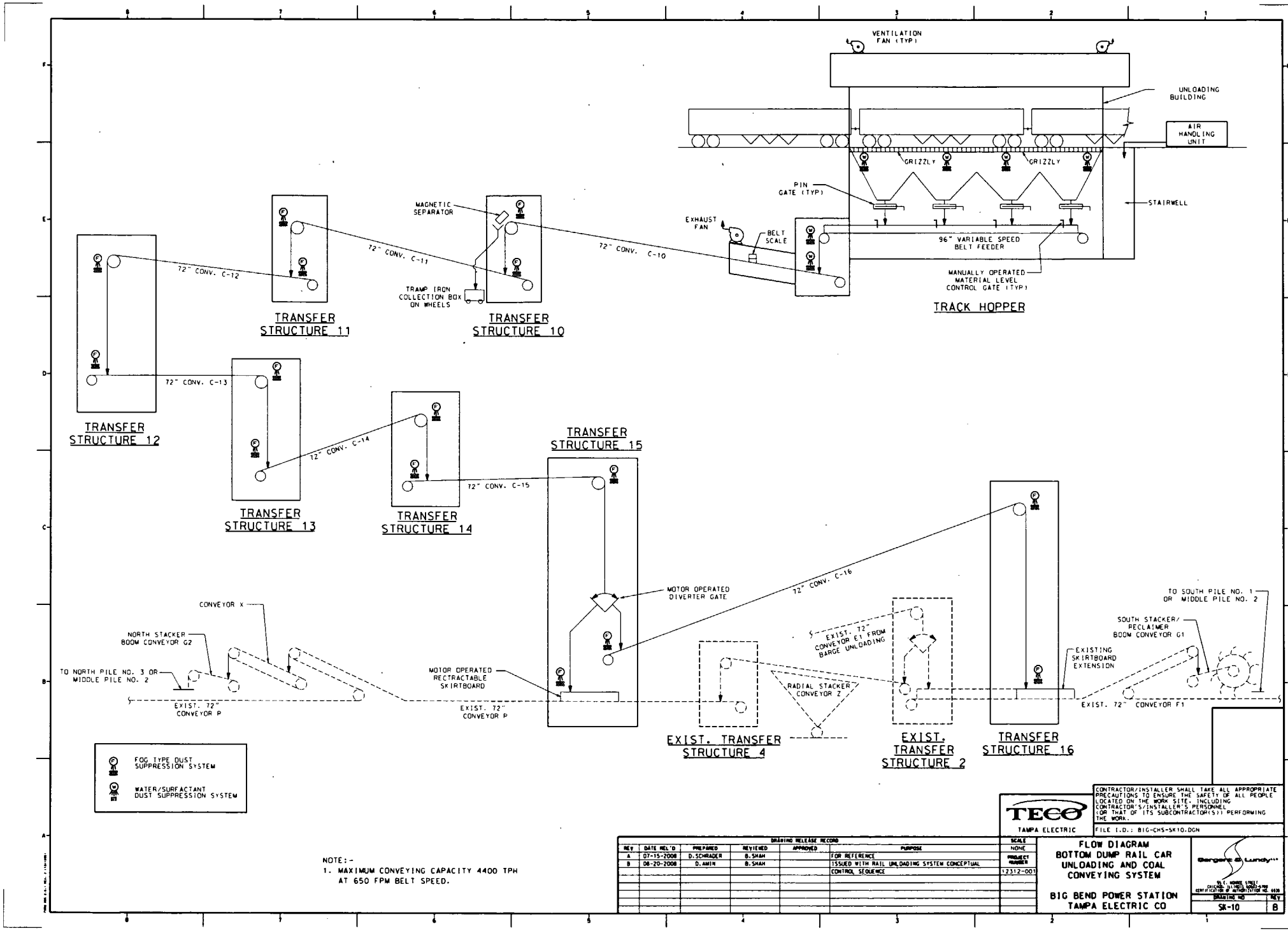
4. AIR QUALITY ANALYSIS

Air Quality Analysis
The proposed project is not subject to preconstruction review requirements; therefore, an air quality analysis is not required.

5. CONCLUSION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the conditions specified in the draft permit. No air quality modeling analysis is required because the project does not result in a significant increase in emissions. Cleve Holladay is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

Attachment



NOTE:-
1. MAXIMUM CONVEYING CAPACITY 4400 TPH AT 650 FPM BELT SPEED.

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE
A	07-15-2008	D.SCHRADER	B.SHAH		FOR REFERENCE
B	08-20-2008	D.AMIN	B.SHAH		ISSUED WITH RAIL UNLOADING SYSTEM CONCEPTUAL CONTROL SEQUENCE

SCALE: NONE
PROJECT NUMBER: 12312-001

TECO TAMPA ELECTRIC

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.

FILE I.D.: BIG-CHS-SK10.DGN

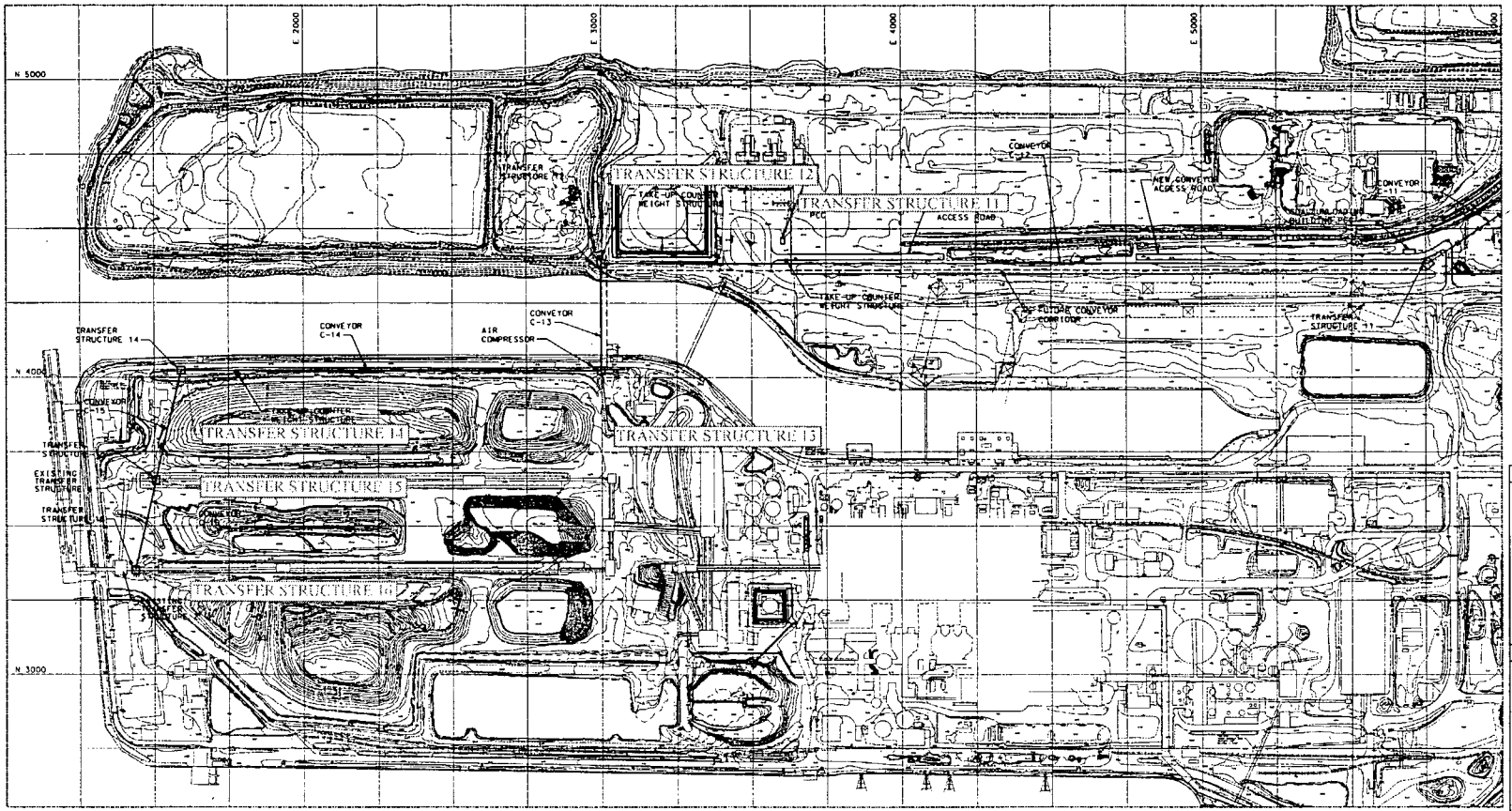
FLOW DIAGRAM BOTTOM DUMP RAIL CAR UNLOADING AND COAL CONVEYING SYSTEM

BIG BEND POWER STATION
TAMPA ELECTRIC CO

Sargent & Lundy

DRAWING NO: SK-10
REV: B

Figure 1



LEGEND

- ℄ NEW TRACK
- ℄ EXISTING TRACK
- OVERLAND CONVEYOR FOR COAL UNLOADING
- OVERLAND CONVEYOR TRANSFER STRUCTURE

NOTES

REFERENCE DRAWINGS

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.

NORTH

150 0 150 300
GRAPHIC SCALE

TECO
TAMPA ELECTRIC

FILE I.D.: CSK-009A.DGN

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE
A	06-16-2008	EAT/ALS	D. PACKARD		FOR CLIENT COMMENT
0	07-01-2008	ALS	J. PERRY		ISSUED FOR BIDS PER SPEC. T-5471
1	07-18-2008	ALS	J. PERRY		ISSUED FOR BIDS PER SPEC. T-5471

SCALE: 1"=150'

PROJECT NUMBER: 12312-001

GENERAL ARRANGEMENT BOTTOM DUMP RAIL CAR UNLOADING AND COAL CONVEYING SYSTEM 110 CAR RAIL LOOP BIG BEND POWER STATION TAMPA ELECTRIC CO

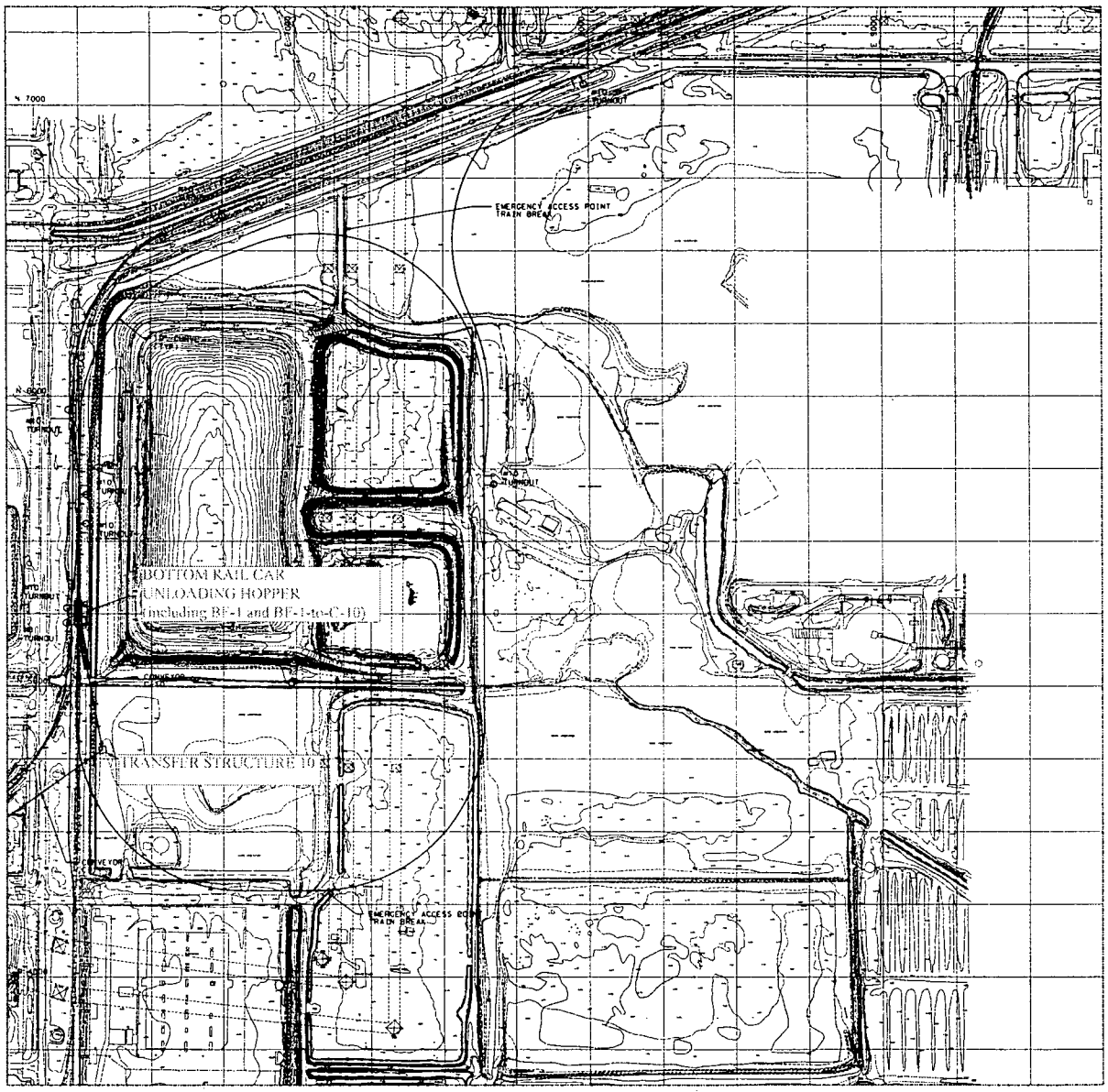
Sargent & Lundy

55 E. MONROE STREET, CHICAGO, ILLINOIS 60603-5780
CERTIFICATION OF AUTHORIZATION NO. 6139

DRAWING NO: CSK-009A

REV: 1

Figure 2a



LEGEND

- ℄ NEW TRACK
- ℄ EXISTING TRACK
- OVERLAND CONVEYOR FOR COAL UNLOADING
- OVERLAND CONVEYOR TRANSFER STRUCTURE

NOTES

REFERENCE DRAWINGS

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED.

REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK.

THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.

NORTH

150 0 150 300
GRAPHIC SCALE

TECO
TAMPA ELECTRIC

FILE I.D.: CSK-0098.DGN

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE

DRAWING RELEASE RECORD

REV	DATE REL'D	PREPARED	REVIEWED	APPROVED	PURPOSE
A	06-02-2008	A. SLACH	D. PACKARD		FOR CLIENT COMMENT
0	07-01-2008	ALS	J. PERRY		ISSUED FOR BIDS PER SPEC. T-5471
1	07-18-2008	ALS	J. PERRY		ISSUED FOR BIDS PER SPEC. T-5471

SCALE: 1"=150'

PROJECT NUMBER: 12312-005

GENERAL ARRANGEMENT BOTTOM DUMP RAIL CAR UNLOADING AND COAL CONVEYING SYSTEM

BIG BEND POWER STATION
TAMPA ELECTRIC CO

Sargent & Lundy

DRAWING NO: CSK-0098

REV: 1

Figure 2b

PUBLIC NOTICE OF INTENT TO ISSUE AIR PERMIT

Florida Department of Environmental Protection
Division of Air Resource Management, Bureau of Air Regulation
Draft Air Permit No. 0570039-041-AC
Tampa Electric Company
Big Bend Station
Hillsborough County, Florida

Applicant: The applicant for this project is Tampa Electric Company. The applicant's authorized representative and mailing address is: Mr. Ron Bishop, Director, Big Bend Station, Tampa Electric Company, Post Office Box 111, Tampa, Florida 33601-0111.

Facility Location: Tampa Electric Company operates the Big Bend Station, which is located at 13031 Wyandotte Road, Apollo Beach, Hillsborough County, Florida.

Project: The proposed project is to construct and operate a Railcar Coal Unloading System designed to offset and compliment the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard.

The Railcar Coal Unloading System will consist of one railcar unloading building and a series of conveyors that connect to the existing P1 or F1conveyors of the solid fuel yard.

The railcar unloading building is an enclosed structure (except for the railcar entrance and exit openings), designed to receive coal as a slow and controlled continuous coal unloading process. The railcar will drop the coal as each railcar unit enters the unloading building and will continue to discharge the coal from its tapered bottom chutes until the railcar reaches the exit end of the building. Once the coal is discharged from the railcars, it will drop through a stationary safety screen called the grizzly and into coal collecting hoppers. Each coal collecting hopper will have tapered discharge chutes equipped with slide gates. From the coal collecting hoppers, the coal will fall directly on a variable speed belt designed to feed coal to the series of conveyors that will transfer the coal to the existing P1 or F1 conveyors of the solid fuel yard. Fugitive emission controls will include building/transfer point enclosure and water/surfactant dust suppression system.

The series of conveyors associated with the Railcar Coal Unloading System will consist of conveyors C-10, C-11, C-12, C-13, C-14, C-15 and C-16. The fugitive emission controls will include hoods on all belt conveyors, all transfer points will be enclosed, and fog type dust suppression system. The coal conveying system is designed for a transport rate of 4,000 tons per hour (TPH) (24-hour rolling average).

The railcar unloading building is an enclosed structure. Fugitive emission controls include building/transfer point enclosure and water/surfactant dust suppression system. The estimated potential emissions increases for particulate matter/particulate matter with a mean diameter equal to or less than 10 microns/ and particulate matter with a mean diameter equal to or less than 2.5 microns ($PM/PM_{10}/PM_{2.5}$) are 1.439, 0.681 and 0.214 tons per year, respectively, and are well below the Prevention of Significant Deterioration (PSD) significant emissions rates for PM (25 tons/year) and PM_{10} and $PM_{2.5}$ (15 tons/year) and therefore not subject to preconstruction review.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. 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 850/488-0114.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the

Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address and phone number listed above. In addition, electronic copies of these documents are available on the following web site: http://www.dep.state.fl.us/air/eproducts/apds/default.asp.

Notice of Intent to Issue Air Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of proposed 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, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a Final Permit in accordance with the conditions of the proposed Draft Permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Comments: The Permitting Authority will accept written comments concerning the proposed Draft Permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of this 14-day period. If written comments received result in a significant change to the Draft Permit, the Permitting Authority shall revise the Draft Permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection 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 this Public Notice or receipt of a written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 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 state; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action 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.

(Public Notice to be Published in the Newspaper)

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.

Mediation: Mediation is not available for this proceeding.

DRAFT PERMIT

PERMITTEE:

Tampa Electric Company
Big Bend Power Station
Post Office Box 111
Tampa, Florida 33601-0111
Authorized Representative:
Mr. Ron Bishop, Director

Project No. 0570039-041-AC
Big Bend Station
Railcar Coal Unloading Project

SIC No. 4911
Permit Expires December 31, 2010

PROJECT AND LOCATION

This permit authorizes the construction and operation of a Railcar Coal Unloading System designed to offset and/or compliment the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard. The existing facility is located at 13031 Wyandotte Road in Apollo Beach, Hillsborough County. The map coordinates are UTM Zone 17, 361.78 km East and 3075.10 km North.

STATEMENT OF BASIS

This construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The project was processed in accordance with the requirements of Rule 62-212.400, F.A.C., the preconstruction review program for the Prevention of Significant Deterioration (PSD) of Air Quality. The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

CONTENTS

Joseph Kahn, Director
Division of Air Resource Management

Effective Date

FACILITY DESCRIPTION

The Tampa Electric Company's Big Bend Station (Big Bend) is a nominal 2,028 megawatt (MW) existing electric utility plant located in Apollo Beach, Florida. The facility produces electricity for distribution to the grid as a saleable product.

The regulated emissions units at Big Bend include the following: four steam boilers (Units Nos. 1 - 4); four steam turbines; three simple-cycle combustion turbines (SCCT Nos. 1 - 3); solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities, and fuel oil storage tanks. Units Nos. 1, 2, 3 and 4 have nominal maximum heat inputs of 4037, 3996, 4115 and 4330 million British thermal units (MMBTU) per hour, respectively. Units Nos. 1 - 4 are fired with coal and petroleum coke (petcoke) mixture with 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/petcoke blend further blended with coal residual generated from the Polk Power Station. The simple-cycle combustion turbines (SCCT) are fired with No. 2 distillate fuel oil. In addition, there is a ship surface coating operation. The facility has emissions units that are Acid Rain Units and regulated under the Florida Electrical Power Plant Siting Act.

PROJECT DESCRIPTION

The proposed project is to construct and operate a Railcar Coal Unloading System designed to offset and/or complement the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard (Emission Unit ID No. 010).

The Railcar Coal Unloading System will consist of one railcar unloading building and a series of conveyors that connect to the existing P1 or F1 conveyors of the solid fuel yard.

The railcar unloading building is an enclosed structure (except for the railcar entrance and exit openings), designed to receive coal as a slow and controlled continuous coal unloading process. The railcar will drop the coal as each railcar unit enters the unloading building and will continue to discharge the coal from its tapered bottom chutes until the railcar reaches the exit end of the building. Once the coal is discharged from the railcars, it will drop through a stationary safety screen and into coal collecting hoppers. Each coal collecting hopper will have tapered discharge chutes equipped with slide gates. From the coal collecting hoppers, the coal will fall directly on a variable speed belt designed to feed coal to the series of conveyors that will transfer the coal to the existing P1 or F1 conveyors of the solid fuel yard. Fugitive emission controls will include building/transfer point enclosure and water/surfactant dust suppression system.

REGULATORY CLASSIFICATION

Title III: The facility is a major source of hazardous air pollutants (HAP).

Title IV: The facility has units subject to the Acid Rain provisions of the Clean Air Act. The new SCCT will be subject to the Acid Rain provisions of the Clean Air Act.

Title V: The facility is a Title V or "Major Source of Air Pollution" in accordance with Rule 62-210.200 (Definitions) and Chapter 62-213, F.A.C.

PSD: The facility is a PSD-major facility pursuant to Chapter 62-212, F.A.C.

New Source Performance Standards (NSPS): The Railcar Coal Unloading System is subject to 40 Code of Federal Regulations CFR 60, Subpart Y (Standards of Performance for Coal Preparation Plants).

APPENDICES

The following Appendices are attached as part of this permit.

Appendix A.	Citation Formats and Glossary of Common Terms
Appendix B.	General Conditions

Appendix C.	Common Conditions
Appendix D.	Common Testing Requirements
Appendix E.	NSPS Subpart A, General Provisions
Appendix F.	NSPS Subpart Y, Requirements for Coal Preparation Plants

RELEVANT DOCUMENTS

The following relevant documents are not a part of this permit, but helped form the basis for this permitting action: the permit application and additional information received to make it complete; the draft permit package including the Department's Technical Evaluation and Preliminary Determination; publication and comments; and the Department's Final Determination.

1. Permitting Authority: All documents related to applications for permits to construct, operate or modify emissions unit should be submitted to the Bureau of Air Regulation (BAR), Florida Department of Environmental Protection (DEP), at 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400. Copies of all such documents shall also be submitted to the Compliance Authority.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Hillsborough County Environmental Protection Commission (HCEPC) office. The mailing address of the HCEPC's Air Quality Division (AQD) is 3629 Queen Palm Drive, Tampa, Florida 33619. The AQD's telephone number is 813/627-2600 and facsimile number is 813/627-2660.

3. General Conditions: The permittee shall operate under the attached General Conditions listed in Appendix B of this permit. General Conditions are binding and enforceable pursuant to Chapter 403, F.S. [Rule 62-4.160, F.A.C.]

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C., and follow the application procedures in Chapter 62-4, F.A.C. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]

5. Construction and Expiration: The permit expiration date includes sufficient time to complete construction, perform required testing, submit test reports, and submit an application for a Title V operation permit to the Department. Approval to construct shall become invalid if construction is not completed within a reasonable time. The Department may extend the expiration date upon a satisfactory showing that an extension is justified. Such a request shall be submitted to the Department's Bureau of Air Regulation at least sixty (60) days prior to the expiration of this permit. [Rules 62-4.070(4), 62-4.080, 62-210.300(1), and 62-212.400(12), F.A.C.]

6. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

7. Source Obligation:

   a. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   b. At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification.

   [Rule 62-212.400(12), F.A.C.]

8. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. This permit authorizes construction of the referenced facilities. [Chapters 62-210 and 62-212, F.A.C.]

9. Title V Air Operation Permit: This permit authorizes construction of the permitted emissions unit and initial operation to determine compliance with Department rules. A Title V Air Operation Permit is required for regular operation of the permitted emission units. The permittee shall apply for and obtain a Title V operation permit in accordance with Rule 62-213.420, F.A.C. To apply for a Title V Air Operation Permit, the applicant shall submit the appropriate application form, compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Bureau of Air Regulation and a copy to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

A. RAILCAR COAL UNLOADING SYSTEM

The specific conditions of this subsection apply to the following emissions points after construction is complete.

ARMS ID	Emission Point Description
010	Railcar Coal Unloading Building
010	Railcar Coal Unloading Conveying System

The series of conveyors associated with the Railcar Coal Unloading System will consist of conveyors C-10, C-11, C-12, C-13, C-14, C-15 and C-16. The fugitive emission controls will include hoods on all belt conveyors, all transfer points will be enclosed, and fog type dust suppression system. The coal conveying system is designed for a transport rate of 4,000 tons per hour (TPH) (24-hour rolling average).

APPLICABLE STANDARDS AND REGULATIONS

1. NSPS Requirements: The Railcar Coal Unloading Building shall comply with the applicable NSPS in 40 CFR 60 including: Subpart A (General Provisions) and Subpart Y (Standards of Performance for Standards of Performance for Coal Preparation Plants). See Appendix E for the NSPS Subpart A provisions and Appendix F for the NSPS Subpart Y provisions. Some separate reporting and monitoring may be required by the individual subparts. [Rule 62-204.800(7)(b), F.A.C., and 40 CFR 60, Subparts A and Y]

EQUIPMENT DESCRIPTION

2. Railcar Coal Unloading System: The permittee is authorized to install and operate a Railcar Coal Unloading System designed to offset and compliment the existing coal conveying system currently being used for transferring coal from oceangoing barges to the solid fuel yard (Emission Unit ID No. 010).

[Application 0570039-041-AC; and Rules 62-210.200(Definitions-Potential to Emit (PTE)) and 62-4.070(3), F.A.C.]

PERFORMANCE REQUIREMENTS

3. Permitted Capacity: The maximum unloading rate is 4000 tons per hour (24-hour average). The maximum annual transfer for both railcar and barge unloading operations is 8,000,000 tons per year. [Rule 62-210.200(PTE), F.A.C.]

4. Restricted Operation: The hours of operation are not limited (8760 hours per year). [Rules 62-4.070(3) and 62-210.200 (PTE), F.A.C.]

EMISSIONS STANDARDS

5. Fugitive Dust Emissions: During the construction period, fugitive dust emissions shall be minimized by techniques such as covering, confining and/or the application of water or dust suppressants to the affected areas, or removal of particulate matter from roads and other paved areas to prevent re-entrainment, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

6. Railcar Coal Unloading Building: The permittee shall install a water/surfactant dust suppression system to control particulate matter emissions from the railcar coal unloading hopper. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C. and Application No. 0570039-041-AC]

7. Railcar Coal Unloading Conveying System: The permittee shall install a water/surfactant dust suppression system to control particulate matter emissions from the railcar coal unloading hopper. [Rules 62-4.070, F.A.C.]

8. 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)]

9. PM Control Requirement. If the initial performance visible emissions test results in greater than 5% opacity, the permittee shall perform a stack test for particulate matter (PM) to evaluate if further PM controls are needed. [Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.]

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.**

TESTING REQUIREMENTS

10. Initial Compliance Tests: The Railcar Coal Unloading Building vents shall be tested to demonstrate initial compliance with the emissions standard for visible emissions. The initial tests shall be conducted within 60 days after achieving permitted capacity, but not later than 180 days after initial operation of the unit. [Rules 62-4.070(3) and 62-297.310(7)(a)1, F.A.C.]

11. Annual Compliance Tests: During each federal fiscal year (October 1st to September 30th), the Railcar Coal 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.]

12. Test Requirements: The permittee shall notify the Compliance Authority in writing at least 15 days prior to any required tests. Tests shall be conducted in accordance with the applicable requirements specified in Appendix D (Common Testing Requirements) of this permit. [Rule 62-297.310(7)(a)9, F.A.C.]

13. Unconfined Particulate Emissions: During the construction period, unconfined PM emissions shall be minimized by dust suppressing techniques such as covering, confining, or applying water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

14. Standard Testing Requirements: See Appendix D (Common Testing Requirements) of this permit for notification, testing, recordkeeping and reporting requirements regarding a performance test. [Rules 62-204.800 and 62-297.100, F.A.C.; Appendix D of this permit; and 40 CFR 60, Appendix A]

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

Method	Description of Method and Comments
1-4	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)
5	Method for Determining Particulate Matter Emissions (IF REQUIRED)
9	Visible Emissions Test

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. [Rule 62-204.800, F.A.C. and 40 CFR 60, Appendix A]

16. Testing Requirements: Initial and subsequent performance tests shall be conducted between 90% and 100% of permitted capacity in accordance with the requirements of Rule 62-297.310(2), F.A.C.

[Rules 62-297.310(2) and (7)(a), F.A.C.; 40 CFR 60.8; and Appendix D of this permit]

17. Special Compliance Tests: When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]

REPORTING AND RECORDKEEPING REQUIREMENTS

18. Test Reports: The permittee shall prepare and submit reports for all required tests in accordance with the requirements specified in Appendix D (Common Testing Requirements) of this permit.
[Rule 62-297.310(8), F.A.C. and Appendix D of this permit]

CONTENTS

CITATION FORMATS

The following illustrate the formats used in the permit to identify applicable requirements from permits and regulations.

Old Permit Numbers

Example: Permit No. AC50-123456 or Permit No. AO50-123456

Where: "AC" identifies the permit as an Air Construction Permit
"AO" identifies the permit as an Air Operation Permit
"123456" identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: "099" represents the specific county ID number in which the project is located
"2222" represents the specific facility ID number for that county
"001"identifies the specific permit project number
"AC" identifies the permit as an air construction permit
"AF" identifies the permit as a minor source federally enforceable state operation permit
"AO" identifies the permit as a minor source air operation permit
"AV" identifies the permit as a major Title V air operation permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: "PSD" means issued pursuant to the preconstruction review requirements of the Prevention of Significant Deterioration of Air Quality
"FL" means that the permit was issued by the State of Florida
"317" identifies the specific permit project number

Florida Administrative Code (F.A.C.)

Example: [Rule 62-213.205, F.A.C.]

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CRF 60.7]

Means: Title 40, Part 60, Section 7

GLOSSARY OF COMMON TERMS

° F: degrees Fahrenheit

acfm: actual cubic feet per minute

ARMS: Air Resource Management System (Department's database)

BACT: best available control technology

Btu: British thermal units

CAM: compliance assurance monitoring

CEMS: continuous emissions monitoring system

cfm: cubic feet per minute

CFR: Code of Federal Regulations

CO: carbon monoxide

COMS: continuous opacity monitoring system

DEP: Department of Environmental Protection

Department: Department of Environmental Protection

dscfm: dry standard cubic feet per minute

EPA: Environmental Protection Agency

ESP: electrostatic precipitator (control system for reducing particulate matter)

EU: emissions unit

F.A.C.: Florida Administrative Code

F.D.: forced draft

F.S.: Florida Statutes

FGR: flue gas recirculation

Fl: fluoride

ft^2: square feet

ft^3: cubic feet

gpm: gallons per minute

gr: grains

HAP: hazardous air pollutant

Hg: mercury

I.D.: induced draft

ID: identification

kPa: kilopascals

lb: pound

MACT: maximum achievable technology

MMBtu: million British thermal units

MSDS: material safety data sheets

MW: megawatt

NESHAP: National Emissions Standards for Hazardous Air Pollutants

NO_X: nitrogen oxides

NSPS: New Source Performance Standards

O&M: operation and maintenance

O_2: oxygen

Pb: lead

PM: particulate matter

PM_{10}: particulate matter with a mean aerodynamic diameter of 10 microns or less

PSD: prevention of signifi9cant deterioration

psi: pounds per square inch

PTE: potential to emit

RACT: reasonably available control technology

RATA: relative accuracy test audit

SAM: sulfuric acid mist

scf: standard cubic feet

scfm: standard cubic feet per minute

SIC: standard industrial classification code

SNCR: selective non-catalytic reduction (control system used for reducing emissions of nitrogen oxides)

SO_2: sulfur dioxide

TPH: tons per hour

TPY: tons per year

UTM: Universal Transverse Mercator coordinate system

VE: visible emissions

VOC: volatile organic compounds

The permittee shall comply with the following general conditions from Rule 624.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are"Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention ofF.S. and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conductedto:

   a. Have access to and copy and records that must be kept under the conditions of the permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. A description of and cause of non-compliance; and

   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

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

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

10. The permittee agrees to comply with changes in Department rules andF.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted byF.S. or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

    a. Compliance with New Source Performance Standards

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

    c. Records of monitoring information shall include:

        1) The date, exact place, and time of sampling or measurements;
        2) The person responsible for performing the sampling or measurements;
        3) The dates analyses were performed;
        4) The person responsible for performing the analyses;
        5) The analytical techniques or methods used; and
        6) The results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Unless otherwise specified in the permit, the following conditions apply to all emissions units and activities at the facility.

EMISSIONS AND CONTROLS

1. Plant Operation - Problems: If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]
2. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
3. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emisions 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.]
4. 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.]
5. Excess Emissions - Notification: In case of excess emissions resulting from malfunctions, the permittee 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. [Rule 62-210.700(6), F.A.C.]
6. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]
7. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and 62-210.200(Definitions), F.A.C.]
8. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does notimpose a specific testing requirement. [Rule 62-296.320(4)(b)1, F.A.C.]
9. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

{Permitting Note: Rule 62-210.700 (Excess Emissions), F.A.C., cannot vary any NSPS or NESHAP provision.}

RECORDS AND REPORTS

10. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least 5 years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rule 62-213.440(1)(b)2, F.A.C.]
11. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submittedto the Compliance Authority as required by Rule 62-210.370(3)(c), F.A.C. [Rule 62-210.370(3), F.A.C.]

SECTION 4. APPENDIX D
COMMON TESTING REQUIREMENTS

Unless otherwise specified in the permit, the following testing requirements apply to all emissions units at the facility.

COMPLIANCE TESTING REQUIREMENTS

1. Required Number of Test Runs: For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured; provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five-day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five-day period allowed for the test, the Secretary or his or her designee may accept the results of two complete runs as proof of compliance, provided that the arithmetic mean of the two complete runs is at least 20% below the allowable emission limiting standard. [Rule 62-297.310(1), F.A.C.]

2. Operating Rate During Testing: Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the maximum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test rate until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. [Rule 62-297.310(2), F.A.C.]

3. Calculation of Emission Rate: For each emissions performance test, the indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the three separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

4. Applicable Test Procedures

   a. *Required Sampling Time.*

      (1) Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

      (2) Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

         (a) For batch, cyclical processes, or other operations which are normally completed within less than the minimum observation period and do not recur within that time, the period of observation shall be equal to the duration of the batch cycle or operation completion time.

         (b) The observation period for special opacity tests that are conducted to provide data to establish a surrogate standard pursuant to Rule 62-297.310(5)(k), F.A.C., Waiver of Compliance Test Requirements, shall be established as necessary to properly establish the relationship between a proposed surrogate standard and an existing mass emission limiting standard.

         (c) The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

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

   c. *Calibration of Sampling Equipment.* Calibration of the sampling train equipment shall be conducted in accordance

with the schedule shown in Table 297.310-1, F.A.C.

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

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

5. Determination of Process Variables

a. *Required Equipment.* The owner or operator of an emissions unit for which compliancetests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

b. *Accuracy of Equipment.* Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

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

6. Sampling Facilities: The permittee shall install permanent stack sampling ports and provide sampling facilities that meet the requirements of Rule 62-297.310(6), F.A.C. Sampling facilities include sampling ports, work platforms, access to work platforms, electrical power, and sampling equipment support. All stack sampling facilities must also comply with all applicable Occupational Safety and Health Administration (OSHA) Safety and Health Standards described in 29 CFR Part 1910, Subparts D and E.

a. *Permanent Test Facilities.* The owner or operator of an emissions unit for which a compliance test, other than a visible emissions test, is required on at least an annual basis, shall install and maintain permanent stack sampling facilities.

b. *Temporary Test Facilities.* The owner or operator of an emissions unit that is not required to conduct a compliance test on at least an annual basis may use permanent or temporary stack sampling facilities. If the owner chooses to use temporary sampling facilities on an emissions unit, and theDepartment elects to test the unit, such temporary facilities shall be installed on the emissions unit within 5 days of a request by the Department and remain on the emissions unit until the test is completed.

c. *Sampling Ports.*

(1) All sampling ports shall have a minimum inside diameter of 3 inches.

(2) The ports shall be capable of being sealed when not in use.

(3) The sampling ports shall be located in the stack at least 2 stack diameters or equivalent diameters downstream and at least 0.5 stack diameter or equivalent diameter upstream from any fan, bend, constriction or other flow disturbance.

(4) For emissions units for which a complete application to construct has been filed prior to December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 15 feet or less. For stacks with a larger diameter, four sampling ports, each 90 degrees apart, shall be installed. For emissions units for which a complete application to construct is filed on or after December 1, 1980, at least two sampling ports, 90 degrees apart, shall be installed at each sampling location on all circular stacks that have an outside diameter of 10 feet or less. For stacks with larger diameters, four sampling ports, each 90 degrees apart, shall be installed. On horizontal circular ducts, the ports shall be located so that the probe can enter the stack vertically, horizontally or at a 45 degree angle.

(5) On rectangular ducts, the cross sectional area shall be divided into the number of equal areas in accordance with EPA Method 1. Sampling ports shall be provided which allow access to each sampling point. The ports shall be located so that the probe can be inserted perpendicular to the gas flow.

d. *Work Platforms.*

(1) Minimum size of the working platform shall be 24 square feet in area. Platforms shall be at least 3 feet wide.

(2) On circular stacks with 2 sampling ports, the platform shall extend at least 110 degrees around the stack.

(3) On circular stacks with more than two sampling ports, the work platform shall extend 360 degrees around the stack.

(4) All platforms shall be equipped with an adequate safety rail (ropes are not acceptable), toe board, and hinged floor-opening cover if ladder access is used to reach the platform. The safety rail directly in line with the sampling ports shall be removable so that no obstruction exists in an area 14 inches below each sample port and 6 inches on either side of the sampling port.

e. *Access to Work Platform.*

(1) Ladders to the work platform exceeding 15 feet in length shall have safety cages or fall arresters with a minimum of 3 compatible safety belts available for use by sampling personnel.

(2) Walkways over free-fall areas shall be equipped with safety rails and toe boards.

f. *Electrical Power.*

(1) A minimum of two 120-volt AC, 20-amp outlets shall be provided at the sampling platform within 20 feet of each sampling port.

(2) If extension cords are used to provide the electrical power, they shall be kept on the plant's property and be available immediately upon request by sampling personnel.

g. *Sampling Equipment Support.*

(1) A three-quarter inch eyebolt and an angle bracket shall be attached directly above each port on vertical stacks and above each row of sampling ports on the sides of horizontal ducts.

(a) The bracket shall be a standard 3 inch × 3 inch × one-quarter inch equal-legs bracket which is 1 and one-half inches wide. A hole that is one-half inch in diameter shall be drilled through the exact center of the horizontal portion of the bracket. The horizontal portion of the bracket shall be located 14 inches above the centerline of the sampling port.

(b) A three-eighth inch bolt which protrudes 2 inches from the stack may be substituted for the required bracket. The bolt shall be located 15 and one-half inches above the centerline of the sampling port.

(c) The three-quarter inch eyebolt shall be capable of supporting a 500 pound working load. For stacks that are less than 12 feet in diameter, the eyebolt shall be located 48 inches above the horizontal portion of the angle bracket. For stacks that are greater than or equal to 12 feet in diameter, the eyebolt shall be located 60 inches above the horizontal portion of the angle bracket. If the eyebolt is more than 120 inches above the platform, a length of chain shall be attached to it to bring the free end of the chain to within safe reach from the platform.

(2) A complete monorail or dual rail arrangement may be substituted for the eyebolt and bracket.

(3) When the sample ports are located in the top of a horizontal duct, a frame shall be provided above the port to allow the sample probe to be secured during the test.

[Rule 62-297.310(6), F.A.C.]

7. Frequency of Compliance Tests: The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

a. *General Compliance Testing.*

1. The owner or operator of a new or modified emissions unit that is subject to an emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining an operation permit for such emissions unit.

2. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test

shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid and/or solid fuel for more than 400 hours other than during startup.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to sub-subparagraph 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

   (a) Did not operate; or

   (b) In the case of a fuel burning emissions unit, burned liquid and/or solid fuel for a total of no more than 400 hours,

4. During each federal fiscal year (October 1 – September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

   (a) Visible emissions, if there is an applicable standard;

   (b) Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

   (c) c. Each NESHAP pollutant, if there is an applicable emission standard.

5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid and/or solid fuel, other than during startup, for a total of more than 400 hours.

6. For fossil fuel steam generators on a semi-annual particulate matter emission compliance testing schedule, a compliance test shall not be required for any six-month period in which liquid and/or solid fuel is not burned for more than 200 hours other than during startup.

7. For emissions units electing to conduct particulate matter emission compliance testing quarterly pursuant to paragraph 62-296.405(2)(a), F.A.C., a compliance test shall not be required for any quarter in which liquid and/or solid fuel is not burned for more than 100 hours other than during startup.

8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

10. An annual compliance test conducted for visible emissions shall not be required for units exempted from air permitting pursuant to subsection 62-210.300(3), F.A.C.; units determined to be insignificant pursuant to subparagraph 62-213.300(2)(a)1., F.A.C., or paragraph 62-213.430(6)(b), F.A.C.; or units permitted under the General Permit provisions in paragraph 62-210.300(4)(a) or Rule 62-213.300, F.A.C., unless the general permit specifically requires such testing.

b. *Special Compliance Tests.* When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

c. *Waiver of Compliance Test Requirements.* If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-

297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of paragraph 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.]

RECORDS AND REPORTS

8. Test Reports:

   a. The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

   b. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

   c. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information.

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

18. All measured and calculated data required to be determined by each applicable test procedure for each run.
19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
20. The applicable emission standard and the resulting maximum allowable emission rate for the emissions unit plus the test result in the same form and unit of measure.
21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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

SECTION 4. APPENDIX E

NSPS SUBPART A, GENERAL PROVISIONS

Emissions units subject to a New Source Performance Standard of 40 CFR 60 are also subject to the applicable requirements of Subpart A, the General Provisions, including:

§ 60.1 Applicability.

§ 60.2 Definitions.

§ 60.3 Units and abbreviations.

§ 60.4 Address.

§ 60.5 Determination of construction or modification.

§ 60.6 Review of plans.

§ 60.7 Notification and Record Keeping.

§ 60.8 Performance Tests.

§ 60.9 Availability of information.

§ 60.10 State Authority.

§ 60.11 Compliance with Standards and Maintenance Requirements.

§ 60.12 Circumvention.

§ 60.13 Monitoring Requirements.

§ 60.14 Modification.

§ 60.15 Reconstruction.

§ 60.16 Priority List.

§ 60.17 Incorporations by Reference.

§ 60.18 General Control Device Requirements.

§ 60.19 General Notification and Reporting Requirements.

Individual subparts may exempt specific equipment or processes from some or all of these requirements. The general provisions may be provided in full upon request.

SUBPART Y—STANDARDS OF PERFORMANCE FOR COAL PREPARATION PLANTS

§ 60.250 APPLICABILITY AND DESIGNATION OF AFFECTED FACILITY.

(a) The provisions of this subpart are applicable to any of the following affected facilities in coal preparation plants which process more than 181 Mg (200 tons) per day: Thermal dryers, pneumatic coal-cleaning equipment (air tables), coal processing and conveying equipment (including breakers and crushers), coal storage systems, and coal transfer and loading systems.

(b) Any facility under paragraph (a) of this section that commences construction or modification after October 24, 1974, is subject to the requirements of this subpart.

[42 FR 37938, July 25, 1977; 42 FR 44812, Sept. 7, 1977, as amended at 65 FR 61757, Oct. 17, 2000]

§ 60.251 DEFINITIONS.

As used in this subpart, all terms not defined herein have the meaning given them in the Act and in subpart A of this part.

(a) *Coal preparation plant* means any facility (excluding underground mining operations) which prepares coal by one or more of the following processes: breaking, crushing, screening, wet or dry cleaning, and thermal drying.

(b) *Bituminous coal* means solid fossil fuel classified as bituminous coal by ASTM Designation D388-77, 90, 91, 95, or 98a (incorporated by reference—see §60.17).

(c) *Coal* means all solid fossil fuels classified as anthracite, bituminous, subbituminous, or lignite by ASTM Designation D388–77, 90, 91, 95, or 98a (incorporated by reference—see §60.17).

(d) *Cyclonic flow* means a spiraling movement of exhaust gases within a duct or stack.

(e) *Thermal dryer* means any facility in which the moisture content of bituminous coal is reduced by contact with a heated gas stream which is exhausted to the atmosphere.

(f) *Pneumatic coal-cleaning equipment* means any facility which classifies bituminous coal by size or separates bituminous coal from refuse by application of air stream(s).

(g) *Coal processing and conveying equipment* means any machinery used to reduce the size of coal or to separate coal from refuse, and the equipment used to convey coal to or removecoal and refuse from the machinery. This includes, but is not limited to, breakers, crushers, screens, and conveyor belts.

(h) *Coal storage system* means any facility used to store coal except for open storage piles.

(i) *Transfer and loading system* means any facility used to transfer and load coal for shipment.

[41 FR 2234, Jan. 15, 1976, as amended at 48 FR 3738, Jan. 27, 1983; 65 FR 61757, Oct. 17, 2000]

§ 60.252 STANDARDS FOR PARTICULATE MATTER.

(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any thermal dryer gases which:

(1) Contain particulate matter in excess of 0.070 g/dscm (0.031 gr/dscf).

(2) Exhibit 20 percent opacity or greater.

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any pneumatic coal cleaning equipment, gases which:

(1) Contain particulate matter in excess of 0.040 g/dscm (0.017 gr/dscf).

(2) Exhibit 10 percent opacity or greater.

(c) On and after the date on which the performance test required to be conducted by §60.8 is completed, an owner or operator subject to the provisions of this subpart shall not cause to be discharged into the atmosphere from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

[41 FR 2234, Jan. 15, 1976, as amended at 65 FR 61757, Oct. 17, 2000]

§ 60.253 MONITORING OF OPERATIONS.

(a) The owner or operator of any thermal dryer shall install, calibrate, maintain, and continuously operate monitoring devices as follows:

(1) A monitoring device for the measurement of the temperature of the gas stream at the exit of the thermal dryer on a continuous basis. The monitoring device is to be certified by the manufacturer to be accurate within ±1.7 °C (±3 °F).

(2) For affected facilities that use venturi scrubber emission control equipment:

(i) A monitoring device for the continuous measurement of the pressure loss through the venturi constriction of the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within ±1 inch water gauge.

(ii) A monitoring device for the continuous measurement of the water supply pressure to the control equipment. The monitoring device is to be certified by the manufacturer to be accurate within ±5 percent of design water supply pressure. The pressure sensor or tap must be located close to the water discharge point. The Administrator may be consulted for approval of alternative locations.

(b) All monitoring devices under paragraph (a) of this section are to be recalibrated annually in accordance with procedures under §60.13(b).

[41 FR 2234, Jan. 15, 1976, as amended at 54 FR 6671, Feb. 14, 1989; 65 FR 61757, Oct. 17, 2000]

§ 60.254 TEST METHODS AND PROCEDURES.

(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(b) The owner or operator shall determine compliance with the particular matter standards in §60.252 as follows:

(1) Method 5 shall be used to determine the particulate matter concentration. The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf). Sampling shall begin no less than 30 minutes after startup and shall terminate before shutdown procedures begin.

(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.

Livingston, Sylvia

From: Nguyen, Andrew T. [atnguyen@tecoenergy.com]
Sent: Friday, December 12, 2008 1:04 PM
To: Livingston, Sylvia; Bishop, Ron D.; Burrows, Byron T.; Ward, Julie M.
Cc: 'Campbell@epchc.org'; 'Lee@epchc.org'; Nasca, Mara; 'forney.kathleen@epa.gov'; Gibson, Victoria
Subject: Re: TECO Big Bend Station; 0570039-041-AC

Thank you. This email was received.
Andrew (Thuy) Nguyen
Tampa Electric-EHS Air Programs
Cell: 813-309-1341
Office: 813-228-4654
Internal Ext.: 34654
ATNguyen@TECOenergy.com

----- Original Message -----
From: Livingston, Sylvia <Sylvia.Livingston@dep.state.fl.us>
To: Bishop, Ron D.; Burrows, Byron T.; Ward, Julie M.; Nguyen, Andrew T.
Cc: Jerry Campbell (E-mail) <Campbell@epchc.org>; Diana Lee (E-mail) <Lee@epchc.org>; Nasca, Mara <Mara.Nasca@dep.state.fl.us>; forney.kathleen@epa.gov <forney.kathleen@epa.gov>; Gibson, Victoria <Victoria.Gibson@dep.state.fl.us>
Sent: Fri Dec 12 12:59:47 2008
Subject: TECO Big Bend Station; 0570039-041-AC

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Owner/Company Name: TAMPA ELECTRIC COMPANY Facility Name: BIG BEND STATION Project Number: 0570039-041-AC Permit Status: DRAFT Permit Activity: CONSTRUCTION/ RAILCAR UNLOADING PROJECT
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Livingston, Sylvia

From: Burrows, Byron T. [BTBurrows@tecoenergy.com] **Sent:**Fri 12/12/2008 1:20 PM
To: Livingston, Sylvia
Cc:
Subject: Re: TECO Big Bend Station; 0570039-041-AC
Attachments:

Received and can open. Thanks!
From Blackberry
Byron Burrows
Mobile: 813.230.3445

----- Original Message -----
From: Livingston, Sylvia <Sylvia.Livingston@dep.state.fl.us>
To: Bishop, Ron D.; Burrows, Byron T.; Ward, Julie M.; Nguyen, Andrew T.
Cc: Jerry Campbell (E-mail) <Campbell@epchc.org>; Diana Lee (E-mail) <Lee@epchc.org>; Nasca, Mara <Mara.Nasca@dep.state.fl.us>; forney.kathleen@epa.gov <forney.kathleen@epa.gov>; Gibson, Victoria <Victoria.Gibson@dep.state.fl.us>
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Owner/Company Name: TAMPA ELECTRIC COMPANY
Facility Name: BIG BEND STATION
Project Number: 0570039-041-AC
Permit Status: DRAFT
Permit Activity: CONSTRUCTION/ RAILCAR UNLOADING PROJECT
Facility County: HILLSBOROUGH
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