

Check Sheet

Company Name: Tampa Electric Company  
Permit Number: AC 29-152987  
PSD Number: \_\_\_\_\_  
Permit Engineer: \_\_\_\_\_

**Application:**

- |   |                          |
|---|--------------------------|
| <input checked="" type="checkbox"/> Initial Application | Cross References:        |
| <input type="checkbox"/> Incompleteness Letters         | <input type="checkbox"/> |
| <input type="checkbox"/> Responses                      | <input type="checkbox"/> |
| <input type="checkbox"/> Waiver of Department Action    | <input type="checkbox"/> |
| <input type="checkbox"/> Department Response            |                          |
| <input type="checkbox"/> Other                          |                          |

**Intent:**

- Intent to Issue
  - Notice of Intent to Issue
  - Technical Evaluation
  - BACT or LAER Determination
  - Unsigned Permit
- Correspondence with:
- EPA
  - Park Services
  - Other
- Proof of Publication
  - Petitions - (Related to extensions, hearings, etc.)
  - Waiver of Department Action
  - Other

**Final**

**Determination:**

- Final Determination
- Signed Permit
- BACT or LAER Determination
- Other

**Post Permit Correspondence:**

- Extensions/Amendments/Modifications
- Other

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

3. Article Addressed to: Mr. Jerry L. Williams Environmental Director Tampa Electric Company P. O. Box 111 Tampa, FL 33601-0111	4. Article Number P 274 007 603
	Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise
	Always obtain signature of addressee or agent and DATE DELIVERED.
5. Signature - Address X	8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent X <i>[Signature]</i>	
7. Date of Delivery MAR 13 1989	

PS Form 3811, Mar. 1988      \* U.S.G.P.O. 1988-212-865      DOMESTIC RETURN RECEIPT

P 274 007 603

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL

(See Reverse)

\* U.S.G.P.O. 1985-480-794

Sent to Mr. Jerry L. Williams, TECO	
Street and No. P.O. Box 111	
P.O. State and ZIP Code Tampa, FL 33601-0111	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date Mailed: 3-9-89 Permit: AC 29-152987	

PS Form 3800, June 1985



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

March 8, 1989

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Jerry L. Williams  
Environmental Director  
Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111

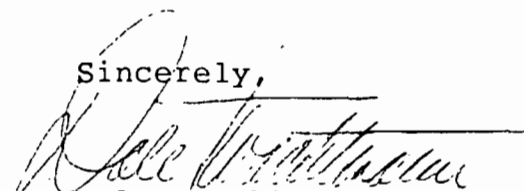
Dear Mr. Williams:

Re: Amendment of Construction Permit No. AC 29-152987

The Department is in receipt of your February 23, 1989, letter requesting the permit to construct the Gannon coal unloader be extended. The extension is needed because of delays in equipment delivery and other construction related problems.

This request is acceptable and the expiration date of construction permit No. AC 29-152987 is extended from June 1, 1989, to December 1, 1989. A copy of this letter must be filed with the referenced construction permit and shall become a part of that permit.

Sincerely,



Dale Twachtmann  
Secretary

DT/ks

attachment: TEC letter of 2/23/89

cc: B. Thomas, SW District  
V. San Agustin, EPCHC

*2/1/89*

CERTIFIED MAIL #P-925 427 609  
RETURN RECEIPT REQUESTED



February 23, 1989

RECEIVED  
FEB 27 1989  
DER-BAQW

Mr. Clair H. Fancy  
Deputy Chief  
Bureau of Air Quality Management  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Tampa Electric Company  
Gannon Station Coal Unloader  
Construction Permit No. AC29-152987

Dear Mr. Fancy:

On December 8, 1988, Tampa Electric Company (TEC) was issued permit number AC29-152987 to construct a coal unloader at our Gannon Station. Subsequent to that time, delays in equipment delivery and other construction related problems have made the completion of this project prior to the deadlines established by the June 1, 1989 expiration date of this permit impossible to achieve. As a result, TEC hereby requests a six month extension of the expiration date so that we may complete the project in accordance with the permit.

If you have any questions concerning this project, please contact me.

Sincerely,

Jerry L. Williams  
Director  
Environmental

JLW/ams/LL058.DOC

cc: Bill Thomas, FDER-Tampa  
Victor San Agustin, EPCHC



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

RECEIVED

MAR 8 1989

TO: Dale Twachtmann

FROM: Steve Smallwood *[Signature]*

Office of the Secretary

DATE: March 8, 1989

SUBJ: Amendment of Construction Permit

Attached for your approval and signature is a letter that will extend the expiration date of a construction permit issued to Tampa Electric Company for their Gannon Coal Unloader located in Tampa, Florida. The extension is needed because of delays in equipment delivery and other construction related problems.

The amendment is not controversial and I recommend your approval and signature.

DT/ks

attachment

*Please call  
Patty Adams  
when signed*

*8-1344*

*Thanks*

*Certified mail P 925 427 609*  
*2-23-89*  
*Tampa, FL*

*file copy*

CERTIFIED MAIL #P-925 427 609  
RETURN RECEIPT REQUESTED



February 23, 1989

RECEIVED  
FEB 27 1989  
DER-BAQ/M

Mr. Clair H. Fancy  
Deputy Chief  
Bureau of Air Quality Management  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Tampa Electric Company  
Gannon Station Coal Unloader  
Construction Permit No. AC29-152987

Dear Mr. Fancy:

On December 8, 1988, Tampa Electric Company (TEC) was issued permit number AC29-152987 to construct a coal unloader at our Gannon Station. Subsequent to that time, delays in equipment delivery and other construction related problems have made the completion of this project prior to the deadlines established by the June 1, 1989 expiration date of this permit impossible to achieve. As a result, TEC hereby requests a six month extension of the expiration date so that we may complete the project in accordance with the permit.

If you have any questions concerning this project, please contact me.

Sincerely,

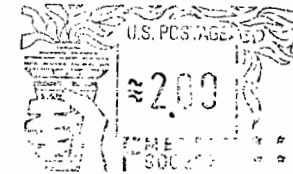
Jerry L. Williams  
Director  
Environmental

JLW/ams/LL058.DOC

cc: Bill Thomas, FDER-Tampa  
Victor San Agustin, EPCHC

*Copied: St. Hanks*  
*CHF/BT*

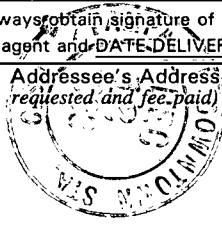
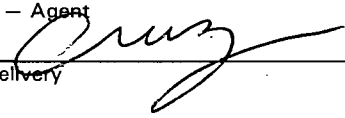
 **TAMPA  
ELECTRIC**  
A TECO ENERGY COMPANY  
P.O. Box 111 Tampa, Florida 33601-0111



Mr. Clair H. Fancy  
Deputy Chief  
Bureau of Air Quality Management  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. (Extra charge)      2.  Restricted Delivery (Extra charge)

<b>3. Article Addressed to:</b>  Mr. Jerry L. Williams Environmental Director Tampa Electric Company P.O. Box 111 Tampa, FL 33601-0111	<b>4. Article Number</b> P 274 007 527  <b>Type of Service:</b> <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise  Always obtain signature of addressee or agent and <b>DATE DELIVERED</b> .
<b>5. Signature - Address</b> <b>X</b>	<b>8. Addressee's Address (ONLY if requested and fee paid)</b> 
<b>6. Signature - Agent</b> <b>X</b> 	
<b>7. Date of Delivery</b>	

PS Form 3811, Mar. 1988      \* U.S.G.P.O. 1988-212-865      DOMESTIC RETURN RECEIPT

P 274 007 527

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

\* U.S.G.P.O. 1985-480-794

PS Form 3800, June 1985

Sent to <b>Mr. Jerry L. Williams, TECO</b>	
Street and No. <b>P.O. Box 111</b>	
P.O., State and ZIP Code <b>Tampa, FL 33601-0111</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date  <b>Mailed: 12-8-88</b> <b>Permit: AC 29-152987</b>	





# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION  
NOTICE OF PERMIT

Mr. Jerry L. Williams  
Environmental Director  
Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111


December 8, 1988

Enclosed is permit No. AC 29-152987 for Tampa Electric Company to construct a coal unloader at the Gannon plant in Tampa, Hillsborough County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this permit has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this permit is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

Copy furnished to:

W. Thomas, SW District  
Victor San Agustin, HCEPC  
Patrick Ho, TECO

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on December 8, 1988.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Matthew J. Wise December 8, 1988  
Clerk Date

Final Determination

Tampa Electric Company  
Hillsborough County  
Tampa, Florida

Gannon Coal Unloader  
Permit No. AC 29-152987

Florida Department of Environmental Regulation  
Bureau of Air Quality Management  
Central Air Permitting

December 6, 1988

## Final Determination

The Technical Evaluation and Preliminary Determination for the 1500 TPH west bucket elevator coal unloading system at Tampa Electric Company's Gannon electric power plant located on Port Sutton Road in Tampa, Hillsborough County, Florida was distributed on October 13, 1988. Copies of the evaluation were available for public inspection at the Environmental Protection Commission of Hillsborough County office in Tampa and the Department's offices in Tampa and Tallahassee. The Notice of Proposed Agency Action was published in The Tampa Tribune on November 5, 1988.

The applicant submitted comments on the Department's proposed action. In a letter dated November 7, 1988, the applicant stated the west grab bucket coal unloading system is operating under permit number AO 29-136682, not AO 29-94044 as stated in the evaluation, and again requested a visible emissions limit of 20 percent opacity.

The Department records confirm that the current operating permit for Gannon coal unloading system is AO 29-136682. This permit restricts visible emissions to 5 percent opacity. As the particulate matter emissions from the west grab bucket coal unloading system will be reduced when the equipment authorized by this construction permit is installed, the Department cannot justify increasing the allowable visible emissions from 5 to 20 percent opacity. The system remains subject to the same visible emission standard that existed prior to installation of better controlled equipment.

The final action of the Department will be to issue the permit to construct as proposed in the Technical Evaluation and Preliminary Determination.



## *Florida Department of Environmental Regulation*

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

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

**Permit Number: AC 29-152987**  
**Expiration Date: June 1, 1989**  
**County: Hillsborough**  
**Latitude/Longitude: 27° 54' 25"N**  
**82° 25' 21"W**  
**Project: Gannon Coal Unloader**

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rules 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Authorization to replace the existing west coal unloader. The replacement unloader consist of a 1500 TPH bucket elevator unloader and two enclosed conveyors that transfer coal to the Gannon Station's existing coal conveyor system. The Gannon Station is located on Port Sutton Road, Tampa, Hillsborough County, Florida. The UTM coordinates of this facility are Zone 17, 360.0 km E and 3,087.5 km N.

Construction shall be in accordance with the permit application and plans, documents, and reference material submitted unless otherwise stated in the Preliminary Determination and Technical Evaluation or the General and Specific Conditions herein.

**Attachments:**

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on August 2, 1988.
2. TECO letter dated November 7, 1988.
3. Environmental Protection Commission of Hillsborough County letter dated November 29, 1988.

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor 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 does not constitute a waiver of 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 acknowledgement 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring 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 notify and provide the Department with the following information:

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

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or 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 arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.



PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - 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 submitted or corrected promptly.

**SPECIFIC CONDITIONS:**

1. Not more than 1,500 TPH and 1,070,000 tons/year coal shall be transferred by the west coal unloading station. The station may operate continuously provided these limits are not exceeded.
2. Visible emissions from the coal unloading operations shall not exceed 5% opacity as determined by EPA Method 9 described in 40 CFR 60, Appendix A (10/28/81 version).

PERMITTEE:  
Tampa Electric Company

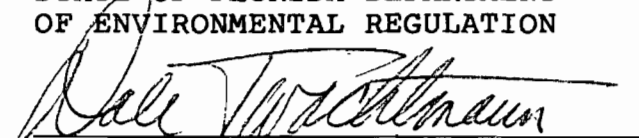
Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

3. The permittee shall use a wetting agent on the coal to reduce particulate matter emissions when necessary to meet the 5% opacity limit.
4. Particulate matter emissions from the west coal unloading station, as determined from the applicable emission factors described in AP-42, Section 11.2.3 (May, 1983), shall not exceed 1.43 lbs/hr and 0.51 TPY.
5. A 30 minute visible emissions test shall be conducted annually on the barge and west coal unloading station while it is in operation at its permitted capacity.
6. The Environmental Protection Commission of Hillsborough County shall be notified in writing at least 15 days prior to any compliance test.
7. Prior to 90 days before the expiration date of this permit, a complete application for an operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date.

Issued this 16 day of December  
1988

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dale Twachtmann, Secretary



State of Florida  
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee	
To: _____	Location: _____
To: _____	Location: _____
To: _____	Location: _____
From: _____	Date: _____

# Interoffice Memorandum

TO: Dale Twachtmann  
FROM: Steve Smallwood *[Signature]*  
SUBJ: Approval of Construction Permit No. AC 29-152987  
Tampa Electric Company  
DATE: December 6, 1988

Attached for your approval and signature is a permit prepared by Central Air Permitting for the above mentioned company to replace the west coal unloading system at the Gannon electric power plant located in Tampa, Hillsborough County, Florida.

Comments were received from the applicant during the public notice period. The Bureau did not agree with all of the applicant's comments.

Day 90, after which this permit will be issued by default, is December 9, 1988.

I recommend your approval and signature.

SS/WH/s

attachments

DEPARTMENT OF ENVIRONMENTAL REGULATION

**ROUTING AND TRANSMITTAL SLIP**

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Initial

Date

2.

Initial

Date

3.

Initial

Date

4.

Initial

Date

REMARKS:

*VE std in permit controversial  
TECO wants 20% equity  
Hillsborough Co said 10% ok  
I've stuck with 5%  
because source it is  
replewing was subject to  
5%.*

*Attached correspondence gives  
background of this issue.*

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

DATE

PHONE

COMMISSION  
RODNEY COLSON  
PAM IORIO  
RUBIN E. PADGETT  
JAN KAMINS PLATT  
HAVEN POE  
JAMES D. SELVEY  
PICKENS C. TALLEY II



ROGER P. STEWART  
DIRECTOR  
1900 - 9th AVE  
TAMPA, FLORIDA 33605  
TELEPHONE (813) 272-5960

RECEIVED  
DEC 2 1988  
DER-BAQM

November 29, 1988

Willard Hanks  
CAPS Engineer  
Division of Air Resources Management  
Florida Department of Environmental  
Regulation  
Twin Towers Office Bldg.  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

RE: TECO Gannon Coal Yard

Dear Willard:

As requested, enclosed is a copy of A029-136682.

Regarding TECO's comment to be allowed 20% for the unloader, we recommend you stipulate an opacity limit consistent with the PM emissions noted in the application. It's my opinion that the 1.43 lbs./hr. reported as potential emissions would better correspond with, say 10% opacity. 20% opacity and 1.43 lbs./hr. do not appear consistent.

If I can be of any assistance, please call.

Sincerely,

Victor San Agustin, P.E.  
Chief - Air Permitting Section

bb

STATE OF FLORIDA  
**DEPARTMENT OF ENVIRONMENTAL REGULATION**



**SOUTHWEST DISTRICT**

4520 OAK FAIR BLVD.  
 TAMPA, FLORIDA 33610-7347  
 813-823-5561  
 Suncom—552-7612

BOB MARTINEZ  
 GOVERNOR

DALE TWACHTMANN  
 SECRETARY

DR. RICHARD D. GARRITY  
 DISTRICT MANAGER

**PERMITTEE:**

Mr. A. Spencer Autry, Manager  
 Environmental Planning  
 Tampa Electric Company  
 Post Office Box 111  
 Tampa, FL 33601-0111

**PERMIT/CERTIFICATION**

Permit No.: AO29-136682  
 County: Hillsborough  
 Issuance Date: 9-25-87  
 Amended Date: 10-1-87  
 Expiration Date: 9-16-92  
 Project: Gannon Station  
 Coal Yard

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the operation of a bituminous coal yard serving Gannon Station's units one through six. The permitted coal throughput rate is 2.85 million tons per year. All yard activities including barge and railcar unloading of coal, truck unloading of limestone, and transfer and storage of both materials are covered under this permit. These include but are not limited to the following:

<u>Source</u> <u>Designator</u>	<u>Particulate</u> <u>Control Method</u>	<u>Efficiency</u> <u>Rating at</u> <u>Design</u> <u>Capacity</u>	<u>Maximum Design</u> <u>Material</u> <u>Handling</u> <u>Rate (TPH)</u>
Barge to East Grab Bucket	Grab Bucket	- -	1500
East Grab Bucket to East Hopper	Windshield	25%	1500
Barge to West Grab Bucket	Grab Bucket	- -	1500
West Grab Bucket to West Hopper	Windsheild	25%	1500

PERMITTEE:  
Tampa Electric Company

Permit No. AO29-136682  
Project: Gannon Station  
Coal Yard

East Hopper to Feeder	- -	- -	1500
West Hopper to Feeder	- -	- -	1500
Feeder to Conveyor B	Enclosure	50%	1500
Conveyor B to Conveyor C	Enclosure	50%	1500
Conveyor C to Conveyor D1/D2	Enclosure & Wet Sprays	95%	1500
Railcar to Hopper	Enclosure (two sides open)	40%	1500
Hopper to Feeder	Enclosure	50%	1500
Feeder to Conveyor L	Enclosure	50%	1500
Conveyor L to Conveyor D1/D2	Enclosure	95%	1500
Conveyor D1/D2 to Conveyor M1/M2	Enclosure & Wet Sprays	95%	1500
Conveyor M1/M2 to Conveyor E1/E2	Enclosure & Wet Sprays	95%	1500
Conveyor E1/E2 to Stockpile	- -	- -	1500
Live Coal Stockpile	Moisture content (approximately 8-11%)	50%	- -
Dead Coal Stockpile	Moisture content (approximately 8-11%) & Compaction	70%	- -

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

Live Limestone Stockpile	- -	- -	- -
Reclaim Pile to Conveyors F1/F2/ F3/F4	Enclosure	85%	1600
Conveyors F1/F2/ F3/F4 to Conveyors G1/G2	Enclosure & Wet Sprays	95%	1600
Conveyors G1/G2 to Hammermill Crushers	Enclosure	70%	1600
Hammermill Crushers to Conveyor H1/H2	Enclosure	70%	1600
Conveyors H1/H2 to Conveyor J1/J2	Enclosure	70%	1600
Conveyor J1/J2 to Bunkers	Enclosure	70%	1600
Conveyor D1/D2 to G1/G2	Enclosure & Wet Sprays	95%	1500
Vehicular Entrainment	- -	- -	- -
Stockpile Maintenance	Moisture content (approximately 8-11%)	50%	- -

Location: Port Sutton Road, Port Sutton, Tampa

UTM:17-360.0E 3087.5N NEDS NO: 0040 Point ID: 08

Replaces Permit No.: AC29-114676 and AO29-94044



PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate the enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of 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 acknowledgement 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

6. The permittee shall at all times 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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of;

a. Having access to and copying any records that must be kept under the conditions of the permit:

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring 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 notify and provide the department with the following information:

(a) a description of and cause of non-compliance; and

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

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

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.11, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- Determination of Best Available Control Technology (BACT)
- Determination of Prevention of Significant Deterioration (PSD)
- Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
- Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- 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 submitted or corrected promptly.

SPECIFIC CONDITIONS:

1. Visible emissions caused by fugitive or unconfined particulate from coal handling systems and storage areas serving Gannon units 1 through 6 shall not exceed 5% opacity demonstrated in accordance with DER Method 9 [Rule 17-2.700(6)(a)9., F.A.C.].

2. At 12 month intervals from or ninety days prior to April 30, 1985 the permittee shall conduct thirty minute visible emission tests on the following operations: The east bucket to the east hopper, the west bucket to the west hopper, the railcar to the hopper, either the conveyor E1 or E2 to their respective stockpiles where the initial freefall is at least thirty feet, the hammermill crusher to either the conveyor H1 or H2, the conveyors D1 or D2 to either the conveyors G1 or G2, and either the conveyors J1 or J2 to their respective bunkers. One copy of each test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

3. Should the Department have reason to believe the visible emission standard is not being met, the Department may require that compliance with the applicable emission standard be demonstrated by testing in accordance with Section 17-2.700, F.A.C.

4. All compliance testing shall be conducted during normal operating conditions and at the maximum rate attainable during the test period.

5. All controls listed in the application with regard to the transfer points (i.e., the grab buckets, the windshield, the enclosures and the wet spray systems) shall be maintained to the extent that the capture efficiencies credited will be achieved.

6. Dead storage coal piles shall not be used in day to day activities. Its use shall be restricted to those times when normal deliveries cannot supply boiler requirements.

7. The annual coal throughput shall not exceed 2.85 million tons per year.

8. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter from vehicular movement in accordance with the provisions listed in Section 17-2.610(3), F.A.C.

9. The Environmental Protection Commission of Hillsborough County shall be notified 15 days prior to compliance testing.

10. Submit for this facility, each calendar year, on March 1, an emission report for the preceding calendar year containing the following information as Per Section 17-4.14, F.A.C.

- (A) Annual amount of materials and/or fuel utilized.
- (B) Annual emissions (note calculations basis).
- (C) Any changes in the information contained in the permit application.

An emissions report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

11. An original application to renew this operating permit and three copies with original seals and signatures shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit.

PERMITTEE:  
Tampa Electric Company

Permit No.: AO29-136682  
Project: Gannon Station  
Coal Yard

12. Water sprays or chemical wetting agents and stabilizers are acceptable methods to be used on both live and dead coal storage piles as necessary to maintain an opacity of less than or equal to 5 percent. Other appropriate methods may be applied to maintain this opacity, after they are approved by the Department.

13. Operation and Maintenance Plan for Particulate Control  
[Section 17-2.650(2), F.A.C.]

A. Process Parameters:

1. For all sources covered under this permit, permitted operation schedule: 24 hours/day; 7 days/wk; 52 wks/yr
2. Equipment Data:  
Conveyor Hoods: Corrugated Aluminum  
Transfer Point Enclosures: Carbon Steel
3. Wet Dust Suppression:  
Manufacturer: Dust Suppression Systems, Inc.  
Kansas City, Missouri  
Mixer Model: Type PP Mixer Proportioner

B. The following observations, checks, and operations apply to the coal yard and shall be conducted on the schedule specified:

Daily

The conveyor hoods are visually inspected.

Monthly

Visually inspect the chutework system for the transfer points.

Quarterly

- (1) Proportioner mixer:
  - a. Flush water strainer
  - b. Lubricate crankpin bearing
  - c. Drain, flush, and refill gear reducer
- (2) Clean strainers
- (3) Inspect conveyor load switch
- (4) Inspect system for leaks
- (5) Inspect spray nozzles

Semiannual

- (1) Perform quarterly preventive maintenance
- (2) Grease pump bearings

PERMITTEE:  
Tampa Electric Company

Permit No. AO29-136682  
Project: Gannon Station  
Coal Yard

Annual

- (1) Perform semi-annual preventive maintenance
- (2) Inspect pump valve and repair as necessary
- (3) Check for movement in pipes that could put strain on pump casing
- (4) Check pump motor alignment

Issued Date: 9-25-87

Amended this 1 day of Oct  
1987.

STATE OF FLORIDA DEPARTMENT OF  
ENVIRONMENTAL REGULATION



---

Richard D. Garrity, Ph.D.  
District Manager

Certified P 601 896 768  
11-8-88 Tampa RECEIVED

*file copy*



NOV 10 1988

CERTIFIED MAIL #P-601 896 768  
RETURN RECEIPT REQUESTED

DER - BAQM

November 8, 1988

Mr. Clair Fancy  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Gannon Station Coal Unloader  
AC29-152987  
Proof of Publication

Dear Mr. Fancy:

Please find attached a notarized proof of publication of a Notice of Proposed Agency Action regarding the above referenced permit. The Public Notice was published in the Tampa Tribune newspaper on November 5, 1988.

Please call me if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Jerry L. Williams".

Jerry L. Williams  
Director  
Environmental

JLW/ams/LL016.DOC

Attachment

*copied:* St. Hanks  
B. Thomas, SW Dist  
V. San Agustin, HCEPC



 **TAMPA  
ELECTRIC**  
A TECO ENERGY COMPANY  
P.O. Box 111 Tampa, Florida 33601-0111

**CERTIFIED**  
P-603 896 768  
**MAIL**

POSTNET  
TAMPA  
NOV 8 '88  
FLA  
FIRST CLASS  
2.00  
FACETER  
8219503

Mr. Clair Fancy  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

**RECEIVED**  
NOV 10 1988  
DER-BAQM

POSTNET

BEST AVAILABLE COPY

THE TAMPA TRIBUNE

Published Daily  
Tampa, Hillsborough County, Florida

State of Florida  
County of Hillsborough

Before the undersigned authority personally appeared  
G. T. Gleason, who on oath says that he is Controller of The Tampa Tribune, a daily  
newspaper published at Tampa in Hillsborough County, Florida; that the attached copy  
of advertisement being a

LEGAL NOTICE

in the matter of Notice of Intent

was published in said newspaper in the issues of  
November 5, 1988

Affiant further says that the said The Tampa Tribune is a newspaper published at  
Tampa, in said Hillsborough County, Florida, and that the said newspaper has  
heretofore been continuously published in said Hillsborough County, Florida, each day  
and has been entered as second class mail matter at the post office in Tampa, in said  
Hillsborough County, Florida, for a period of one year next preceding the first publica-  
tion of the attached copy of advertisement; and affiant further says that he has neither  
paid nor promised any person, firm, or corporation any discount, rebate, commission or  
refund for the purpose of securing this advertisement for publication in the said  
newspaper.

*G. T. Gleason*

Sworn to and subscribed before me, this 5th day  
of November 1988

*William Thomas Bouchard*  
Notary Public, State of Florida

(SEAL)

My Commission Expires Jan. 6, 1989  
Bonded Thru Troy Fain - Insurance, Inc.

RECEIVED  
NOV 10 1988  
DER - BAQM

Department of Environmental Regulation  
Notice of Intent  
The Department of Environmental Regulation hereby gives notice of the intent to issue a permit under section 120.57, Florida Statutes, for the construction of a power plant located on Forest Hill Road in Hillsborough County, Florida. The new coal unit will emit less particulate matter than the unit it replaces. Neither a BACT or LAER determination was required. The project, as permitted, will not increase the ambient air concentration of total suspended particulate matter. The Department is issuing this notice to advise persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes. If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes. The application is available for public inspection during normal business hours 8:00 am to 5:00 pm, Monday through Friday, except legal holidays at:  
Dept. of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
Dept. of Environmental Regulation  
SW District Office  
4520 Live Oak Fair Blvd.  
Tampa, Florida 33610-7347  
Environmental Protection Commission of Hillsborough County  
1410 North 21st Street  
Tampa, Florida 33605  
Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.  
7237 11/5/88

Certified P 601 896 767

file copy

PM 11-7-88  
Tampa, FL



CERTIFIED MAIL #P-601 896 767  
RETURN RECEIPT REQUESTED

RECEIVED

November 7, 1988

NOV 9 1988

DER - BAQM

Mr. Clair Fancy  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400

Re: Tampa Electric Company  
Gannon Station Coal Unloader  
Construction Permit No. AC29-152987

Dear Mr. Fancy:

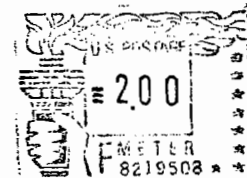
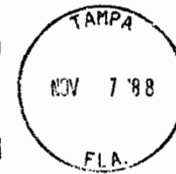
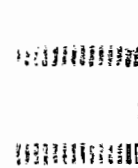
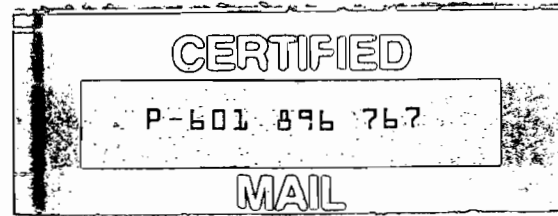
We have received and reviewed the Department of Environmental Regulation's analysis of our request for a construction permit to replace the west grab bucket coal unloading system with a bucket elevator unloading system at the company's Gannon Station in Hillsborough County, Florida. We have two comments for your consideration.

In Section I.C. of your document, you refer to Permit A029-94044 as regulating the operation of the west grab bucket coal unloading system. This is not the correct permit number. The correct number is A029-136682. We request that you correct your records to reflect this permit number.

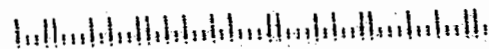
In Part III of the document, you correctly note that the project is exempt from particulate RACT requirements. Section 17-2.650(2)(b)3., F.A.C. provides that the RACT rule provisions do not apply to sources of particulate matter that emit less than one ton per year, as is the case with our project. You then go on, however, to find that the 5 percent opacity requirement should nevertheless apply, and not the 20 percent standard that was requested by Tampa Electric Company. The rationale for this appears to be that the project would be subject to the 5 percent opacity requirements of the material handling operation RACT provision contained in Rule 17-2.650(2)(c)(11), F.A.C., if emissions were increased by 0.5 tons per year. Based upon this, you state that it would not be reasonable to allow the requested 20 percent opacity. Quite honestly, we are somewhat confused by the logic utilized by the Department in determining the opacity limit for this source.

We feel, and the Department apparently agrees, that this project is exempt from RACT requirements. We therefore do not understand how the Department can

 **TAMPA  
ELECTRIC**  
A TECO ENERGY COMPANY  
P.O. Box 111 Tampa, Florida 33601-0111



Mr. Clair Fancy  
Florida Department of  
Environmental Regulation  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, FL 32399-2400



Mr. Clair Fancy  
November 7, 1988  
Page Two

then conclude that RACT rule provisions for opacity should nevertheless apply simply because the exemption would not apply if the source emissions were more than one ton per year. It appears to us that the project is either exempt, or it is not. As such, although we have chosen not to contest the above referenced construction permit, we would like to state, for the record, that we feel that this source should be entitled to a 20 percent opacity limit as provided in 17-2.650(2)(b)3., F.A.C.

Should you have any questions concerning the foregoing or require additional information, please do not hesitate to contact us at your convenience. We certainly appreciate your efforts in reviewing this project.

Sincerely,



Jerry L. Williams  
Director  
Environmental

JLW/ams/LI015.DOC

*copied: Stillard Hanks  
Bill Thomas, SW Dist.  
Victor San Agustin, HCEPC  
CHF/BT*

**SENDER:** Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.  
 Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1.  Show to whom delivered, date, and addressee's address. 2.  Restricted Delivery  
↑(Extra charge)↑ ↑(Extra charge)↑

3. Article Addressed to:  Mr. Jerry L. Williams Environmental Director Tampa Electric Company Post Office Box 111 Tampa, FL 33601-0111	4. Article Number <b>P 274 007 473</b>  Type of Service: <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail
5. Signature - Addressee <b>X</b>	Always obtain signature of addressee or agent and <b>DATE DELIVERED.</b>  8. Addressee's Address (ONLY if requested and fee paid)
6. Signature - Agent <b>X</b>	
7. Date of Delivery	

PS Form 3811, Mar. 1987

★ U.S.G.P.O. 1987-178-268

DOMESTIC RETURN RECEIPT

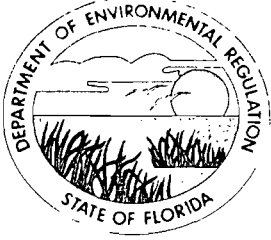
**P 274 007 473**

**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

★ U.S.G.P.O. 1985-480-784  
  
PS Form 3800, June 1985

Sent to <b>Mr. Jerry L. Williams, TECO</b>	
Street and No. <b>P.O. Box 111</b>	
P.O., State and ZIP Code <b>Tampa, FL 33601-0111</b>	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date <b>Mailed: 10-13-88</b> <b>Permit: AC 29-152987</b>	



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

October 13, 1988

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

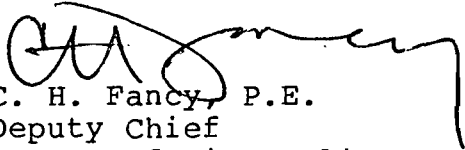
Mr. Jerry L. Williams  
Environmental Director  
Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601-0111

Dear Mr. Williams:

Attached is one copy of the Technical Evaluation and Preliminary Determination and proposed permit for Tampa Electric Company to construct a coal unloader at the Gannon plant.

Please submit any written comments you wish to have considered concerning the Department's proposed action to Mr. Bill Thomas of the Bureau of Air Quality Management.

Sincerely,



C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

CHF/WH/s

Attachments

cc: W. Thomas, SW District  
Victor San Agustin, EPCHC  
Patrick Ho, TECO

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of  
Application for Permit by:

Tampa Electric Company  
Post Office Box 111  
Tampa, Florida 33601

---

DER File No. AC 29-152987

INTENT TO ISSUE

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit (copy attached) for the proposed project as detailed in the application specified above. The Department is issuing this Intent to Issue for the reasons stated in the attached Technical Evaluation and Preliminary Determination.

The applicant, Tampa Electric Company, applied on August 2, 1988, to the Department of Environmental Regulation for a permit to construct a 1500 TPH coal unloader to transfer coal from barges to the existing conveyor system that carries the coal to the storage piles. This system will serve the Gannon electric power plant located on Port Sutton Road, Tampa, Hillsborough County, Florida.

The Department has permitting jurisdiction under Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The project is not exempt from permitting procedures. The Department has determined that an air construction permit was needed for the proposed work.

Pursuant to Section 403.815, F.S. and DER Rule 17-103.150, FAC, you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on permit applications. The notice must be published one time only in a section of a major local newspaper of general circulation in the county in which the project is located and within thirty (30) days from receipt of this intent. Proof of publication must be provided to the Department within seven days of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit.

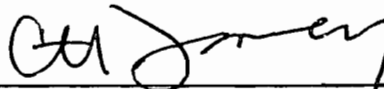
The Department will issue the permit with the attached conditions unless a petition for an administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, F.S. A person whose substantial interests are affected by the



Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. Petitions must comply with the requirements of Florida Administrative Code Rules 17-103.155 and 28-5.201 (copy enclosed) and be filed with (received by) the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the permit applicant must be filed within fourteen (14) days of receipt of this intent. Petitions filed by other persons must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this intent, whichever first occurs. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes, concerning the subject permit application. Petitions which are not filed in accordance with the above provisions will be dismissed.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



---

C. H. Fancy, P.E.  
Deputy Chief  
Bureau of Air Quality  
Management

Copies furnished to:

W. Thomas, SW District  
Victor San Agustin, EPCHC  
Patrick Ho, TECO

RULES OF THE ADMINISTRATIVE COMMISSION  
MODEL RULES OF PROCEDURE  
CHAPTER 28-5  
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
  - (a) The name and address of each agency affected and each agency's file or identification number, if known;
  - (b) The name and address of the petitioner or petitioners;
  - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
  - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
  - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
  - (f) A demand for the relief to which the petitioner deems himself entitled; and
  - (g) Such other information which the petitioner contends is material.

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this NOTICE OF INTENT TO ISSUE and all copies were mailed before the close of business on 10/13/88.

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(9), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Judy Rogers  
Clerk

10/13/88  
Date

State of Florida  
Department of Environmental Regulation  
Notice of Intent

The Department of Environmental Regulation hereby gives notice of its intent to issue a permit to construct a 1500 TPH coal unloader at TECO's Gannon electric power plant located on Port Sutton Road in Tampa, Hillsborough County, Florida. The new coal unloader emits less particulate matter than the unit it replaces. Neither a BACT or LAER determination was required. The project, as permitted, will not increase the ambient air concentration of total suspended particulate matter. The Department is issuing this Intent to Issue for the reasons stated in the Technical Evaluation and Preliminary Determination.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within this time period constitutes a waiver of any right such person has to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not wish to file a petition may wish to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the hearing officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no hearing officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Dept. of Environmental Regulation  
Bureau of Air Quality Management  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Dept. of Environmental Regulation  
SW District Office  
4520 Live Oak Fair Blvd.  
Tampa, Florida 33610-7347

Environmental Protection Commission  
of Hillsborough County  
1410 North 21st Street  
Tampa, Florida 33605

Any person may send written comments on the proposed action to Mr. Bill Thomas at the Department's Tallahassee address. All comments mailed within 14 days of the publication of this notice will be considered in the Department's final determination.

Technical Evaluation  
and  
Preliminary Determination

Tampa Electric Company  
Hillsborough County  
Tampa, Florida

Gannon Coal Unloader  
File No. AC 29-152987

Florida Department of Environmental Regulation  
Bureau of Air Quality Management  
Central Air Permitting

October 13, 1988

## I. General Information

### A. Applicant

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

### B. Request

An application for a permit to construct a 1500 TPH coal unloader to transfer coal from barges to the existing coal handling system at the Gannon electric power plant (SIC 4911) was submitted to the Environmental Protection Commission of Hillsborough County on August 2, 1988. The application was considered complete on receipt.

### C. Project and Location

The applicant operates a coal handling and storage facility at the Gannon electric power plant located on Port Sutton Road in Tampa, Hillsborough County, Florida. The UTM coordinates of this site are Zone 17, 360.0 km E and 3,087.5 km N. The applicant is requesting a construction permit to replace the west grab bucket-hopper coal unloading system (AO 29-94044) with a bucket elevator unloading system that will transfer up to 1,020,000 tons coal/year from barges to the existing conveyor system that takes the coal to the storage area. All conveyors and transfer points will be enclosed.

### D. Emissions

Unconfined emissions escape during the unloading and transfer of the bituminous coal. Emissions will be controlled by enclosing all conveyors and transfer points. These precautions are estimated to reduce emissions by 40 to 70 percent. Using formulas from AP-42, Emission Factors, the applicant estimated total particulate matter emissions from the unloader to the conveyor that carries the coal away from the dock at 1.43 lbs/hr and 0.51 TPY. The system being replaced was estimated to emit 0.61 TPY of particulate matter.

## II. Rule Applicability

The proposed project, replacing an existing barge unloading system at a coal fired electric power plant (SIC 4911), is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code.

The source is located in an area designated nonattainment for ozone and particulate matter (17-2.410), unclassifiable for

sulfur dioxide (17-2.430), and attainment for the other criteria pollutants (17-2.420).

The facility is a major source of particulate matter, sulfur dioxide, nitrogen oxides, carbon monoxide, and volatile organic compounds because the emissions of each of these pollutants exceeds 100 TPY (17-2.100). The unloader will emit particulate matter. The replacement of the unloader is not subject to new source review for nonattainment areas (17-2.510) because particulate matter emissions are estimated to decrease. The unloader is not subject to the Reasonably Available Control Technology (RACT) regulations (17-2.650) because particulate matter emissions from the unloader are less than one ton per year (17-2.650(2)(b)3.).

The project is subject to Rule 17-2.610(3), unconfined emissions of particulate matter, which requires the applicant to employ reasonable precautions to control particulate matter emissions.

### III. Technical Evaluation

Particulate matter emissions will be generated by the unloader removing the coal from the barge, during the movement of the coal along the conveyor, and at each transfer point of the conveyor system. The applicant is proposing to control these emissions by enclosing the conveyors and transfer points, and is also proposing an emission standard of 20% opacity.

The project is exempt from particulate RACT pursuant to 17-2.650(2)(b)3. because the allowable emissions are less than 1 TPY. If emissions were underestimated or increased by less than 0.5 TPY, the project would be subject to 17-2.650(2)(c)(11), RACT for material handling operation, and the visible emission standard would be 5% opacity. Therefore, it does not seem reasonable to allow the requested 20% opacity standard when estimated emissions are less than 5% of the material handling standard.

Regulations require the applicant to use reasonable precautions to control unconfined emissions. Applicable precautions for this operation are enclosing the equipment and wetting the coal being handled.

Removing the coal from the barge is estimated to generate most of the unconfined emissions from this operation. Additional control of the dust can be obtained by wetting the coal during the unloading operation. Unloading operation during a period with high winds could cause emissions to approach the 20% opacity standard requested. Under such circumstances, the applicant should employ a wetting agent to minimize emissions.

The applicant is proposing to enclose the hoppers, feeders, and conveyors in the remaining part of the unloading system. The



emissions from this part of the system are estimated at 0.57 lbs/hr. With properly designed enclosures, there should be no visible emissions from this part of the system. Should dust escape from the enclosure, the emission can be reduced by using a wetting agent on the coal.

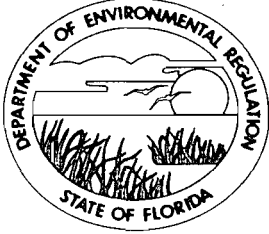
The conveyor system carrying the coal to the storage piles are covered by a previously issued permit (AC 29-61276, Gannon Coal Conversion permit).

#### IV. Air Quality Impact

The proposed 1.43 lbs/hr and 0.51 TPY particulate matter emissions from the proposed coal unloading station will not significantly alter the ambient air quality in this area.

#### V. Conclusion

Based on the data submitted by Tampa Electric Company, the Department has concluded that the replacement of the west coal unloader will comply with the state's air pollution control regulations. The General and Specific Conditions listed in the proposed permit provide reasonable assurance that the source will meet the air pollution control regulations.



# Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

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

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989  
County: Hillsborough  
Latitude/Longitude: 27° 54' 25"N  
82° 25' 21"W

Project: Gannon Coal Unloader

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (FAC) Rules 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

Authorization to replace the existing west coal unloader. The replacement unloader consist of a 1500 TPH bucket elevator unloader and two enclosed conveyors that transfer coal to the Gannon Station's existing coal conveyor system. The Gannon Station is located on Port Sutton Road, Tampa, Hillsborough County, Florida. The UTM coordinates of this facility are Zone 17, 360.0 km E and 3,087.5 km N.

Construction shall be in accordance with the permit application and plans, documents, and reference material submitted unless otherwise stated in the Preliminary Determination and Technical Evaluation or the General and Specific Conditions herein.

**Attachments:**

1. Application to Operate/Construct Air Pollution Sources, DER Form 17-202(1), received on August 2, 1988.

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

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

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor 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 does not constitute a waiver of 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 acknowledgement 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

6. The permittee shall at all times 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, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

- a. Having access to and copying any records that must be kept under the conditions of the permit;
- b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sampling or monitoring 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 notify and provide the Department with the following information:

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

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

GENERAL CONDITIONS:

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or 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 arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.73 and 403.111, Florida Statutes.

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

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the Department, during the course of any unresolved enforcement action.

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

**GENERAL CONDITIONS:**

- b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - 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 submitted or corrected promptly.

**SPECIFIC CONDITIONS:**

1. Not more than 1,500 TPH and 1,070,000 tons/year coal shall be transferred by the west coal unloading station. The station may operate continuously provided these limits are not exceeded.

2. Visible emissions from the coal unloading operations shall not exceed 5% opacity as determined by EPA Method 9 described in 40 CFR 60, Appendix A (10/28/81 version).

PERMITTEE:  
Tampa Electric Company

Permit Number: AC 29-152987  
Expiration Date: June 1, 1989

SPECIFIC CONDITIONS:

3. The permittee shall use a wetting agent on the coal to reduce particulate matter emissions when necessary to meet the 5% opacity limit.

4. Particulate matter emissions from the west coal unloading station, as determined from the applicable emission factors described in AP-42, Section 11.2.3 (May, 1983), shall not exceed 1.43 lbs/hr and 0.51 TPY.

5. A 30 minute visible emissions test shall be conducted annually on the barge and west coal unloading station while it is in operation at its permitted capacity.

6. The Environmental Protection Commission of Hillsborough County shall be notified in writing at least 15 days prior to any compliance test.

7. Prior to 90 days before the expiration date of this permit, a complete application for an operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County. The permittee may continue to operate in compliance with all terms of this construction permit until its expiration date.

Issued this \_\_\_\_\_ day of \_\_\_\_\_,  
1988

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

\_\_\_\_\_  
Dale Twachtman, Secretary

ATTACHMENT 1

Available Upon Request



COMMISSION  
RODNEY COLSON  
PAM IORIO  
RUBIN E. PADGETT  
JAN KAMINIS PLATT  
HAVEN POE  
JAMES D. SELVEY  
PICKENS C. TALLEY II



ROGER P. STEWART  
DIRECTOR  
1900 - 9th AVE  
TAMPA, FLORIDA 33605  
TELEPHONE (813) 272-5960

M E M O R A N D U M

RECEIVED

AUG 22 1988

DER-BAQM

DATE: August 19, 1988  
TO: Willard Hanks  
FROM: Victor San Agustin *VSA*  
RE: TECO Gannon Coal Yard Application

As we discussed, this memo is to attempt to answer the questions you have regarding the above permit application. The questions are answered individually.

1. What started construction in May, 1987? Which unloading station was built? A bucket elevator unloading system was constructed. Specifically, the western coal unloader in Figure 3 of the application was constructed. This was built to replace a west grab bucket -hopper system which was permitted under A029-136682. Enclosed is a copy of this operating permit. The permit which you will process will be for the new coal unloader. Construction was done without a permit and TECO is currently under enforcement with the county for this action.

2. Where was the 2.85 MM TPY coal throughput obtained? This value was obtained from CAPS permit AC29-114676. Also enclosed is a copy.

3. In calculating particulate emissions, what values were used for material silt content(s) and dumping device capacity(y)

Material silt content = 5 %  
Dumping device capacity = 16.8 yd<sup>3</sup>

4. How does TECO propose to demonstrate compliance with the V.E. standard? What are the maximum V.E.'s from this operation? Based on recent inspections by EPCHC staff, emissions are 0% opacity. You may wish to ask them the question but in my opinion, TECO would not implement additional control measures if they are already complying. One concern I have however is the 20% opacity standard they ask for in page 4. Proposed total PM emissions from the unloader are 1.4 lbs./hr. The V.E. standard should coincide with the PM allowables. We recommend that a 10% opacity standard be stipulated for each affected transfer point. Given 2 values to choose from (10% or 15%); we believe 10% is reasonable.

Willard Hanks  
Memorandum  
Page 2

5. Are water sprays used at these transfer points? Our inspection reports showed there are none for the transfer points in question.

I hope this memo addresses your concerns. EPCHC staff requests no additional information. If I can be of further assistance, please call.

DEPARTMENT OF ENVIRONMENTAL REGULATION

<b>ROUTING AND TRANSMITTAL SLIP</b>		ACTION NO	
		ACTION DUE DATE	
1. TO: (NAME, OFFICE, LOCATION)		Initial	Date
Willard Hank			
2. DER - Tallahassee		Initial	Date
3. Twin Towers		Initial	Date
4. Air Resources		Initial	Date
REMARKS:		<b>RECEIVED</b>	
		AUG 10 1988	
DER-BAQM		INFORMATION	
		Review & Return	
		Review & File	
		Initial & Forward	
		DISPOSITION	
		Review & Respond	
		Prepare Response	
		For My Signature	
		For Your Signature	
		Let's Discuss	
		Set Up Meeting	
		Investigate & Report	
		Initial & Forward	
		Distribute	
		Concurrence	
		For Processing	
		Initial & Return	
FROM:		DATE	
Jim McDonald DER/Tampa		8-5-88	
		PHONE	

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. **124688**

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Tampa Electric Date 8-5-88

Address P O Box 1111 Dollars \$ 250.00

Applicant Name & Address Same

Source of Revenue Coal Unbonded

Revenue Code 1031 Application Number AC29-152987

By Alvina King

BEST AVAILABLE COPY



CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

RECEIVED  
AUG 1 1988  
U.S. MAIL

August 1, 1988

Dr. Richard D. Garrity, Ph.D.  
Florida Department of  
Environmental Regulation  
Southwest District  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347

#P 925 427 598

Mr. Roger P. Stewart  
Environmental Protection Commission  
of Hillsborough County  
1900 9th Avenue  
Tampa, Florida 33605

#P 925 427 597

Re: Tampa Electric Company  
Application to Construct Air Pollution Sources  
Gannon Station Coal Unloader

Gentlemen:

Enclosed please find an original and four (4) copies of an Application to Construct Air Pollution Sources, including an authorization letter for the applicant.

The application package, together with a check for \$365.00 to the Hillsborough County Board of County Commissions and a check for \$250.00 to the Florida Department of Environmental Regulation, are included with Mr. Stewart's copy.

If you should have any questions, please feel free to call.

Sincerely,

Jerry L. Williams  
Director  
Environmental

JLW/ams/003/EE3

Enclosures



July 29, 1988

TO WHOM IT MAY CONCERN:

Please be advised that Jerry L. Williams, Director of Environmental, is the authorized representative of Tampa Electric Company concerning matters with which this permit application deals.

Very truly yours,

Heywood A. Turner  
Senior Vice President  
Production

HAT:cc



RECEIVED

AUG 2 1988

E.P.C. OF F.C.

July 29, 1988

TO WHOM IT MAY CONCERN:

Please be advised that Jerry L. Williams, Director of Environmental, is the authorized representative of Tampa Electric Company concerning matters with which this permit application deals.

Very truly yours,

Heywood A. Turner  
Senior Vice President  
Production

HAT:cc

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM  
GOVERNOR  
VICTORIA J. TSCHINKEL  
SECRETARY

APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

SOURCE TYPE: Coal Unloader [ ] New<sup>1</sup> [X] Existing<sup>1</sup>  
APPLICATION TYPE: [X] Construction [ ] Operation [ ] Modification  
COMPANY NAME: Tampa Electric Company COUNTY: Hillsborough  
Identify the specific emission point source(s) addressed in this application (i.e. Line  
Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired) Gannon Coal Unloader  
SOURCE LOCATION: Street Port Sutton Road City Tampa  
UTM: East 360,000 North 3,087,500  
Latitude 27 ° 54 ' 25 "N Longitude 82 ° 25 ' 21 "W  
APPLICANT NAME AND TITLE: Jerry L. Williams, Director - Environmental  
APPLICANT ADDRESS: P.O. Box 111, Tampa, Florida 33601-0111 Attn: Environmental Planning

SECTION I: STATEMENTS BY APPLICANT AND ENGINEER

A. APPLICANT

I am the undersigned owner or authorized representative\* of Tampa Electric Company

I certify that the statements made in this application for a construction permit are true, correct and complete to the best of my knowledge and belief. Further, I agree to maintain and operate the pollution control source and pollution control facilities in such a manner as to comply with the provision of Chapter 403, Florida Statutes, and all the rules and regulations of the department and revisions thereof. I also understand that a permit, if granted by the department, will be non-transferable and I will promptly notify the department upon sale or legal transfer of the permitted establishment.

\*Attach letter of authorization

Signed: Jerry L. Williams

Jerry L. Williams, Director - Environmental

Name and Title (Please Type)

Date: 8/1/88 Telephone No. (813) 228-4837

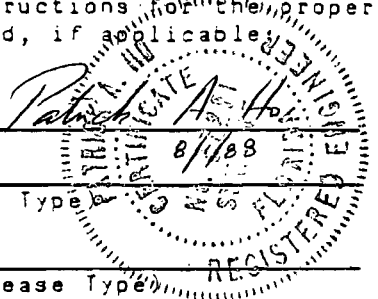
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA (where required by Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that

See Florida Administrative Code Rule 17-2.100(57) and (104)

the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed Patrick A. Ho  
Patrick A. Ho  
Name (Please Type)  
Tampa Electric Company  
Company Name (Please Type)  
P.O. Box 111, Tampa, Florida 33601-0111  
Mailing Address (Please Type)



Florida Registration No. 37281 Date: 8/1/88 Telephone No. (813) 228-4844

**SECTION II: GENERAL PROJECT INFORMATION**

A. Describe the nature and extent of the project. Refer to pollution control equipment, and expected improvements in source performance as a result of installation. State whether the project will result in full compliance. Attach additional sheet if necessary.

The unloader will be used to unload coal from barges at the power plant site.  
All conveyors and transfer points will be enclosed. The project will result  
in full compliance with environmental laws.

B. Schedule of project covered in this application (Construction Permit Application Only)

Start of Construction May 1987 Completion of Construction January 1, 1989

C. Costs of pollution control system(s): (Note: Show breakdown of estimated costs only for individual components/units of the project serving pollution control purposes. Information on actual costs shall be furnished with the application for operation permit.)

\$72,000

D. Indicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.

A029-94044\*

\*Replacement Coal Unloader



E. Requested permitted equipment operating time: hrs/day 24; days/wk 7; wks/yr 52;  
if power plant, hrs/yr \_\_\_\_\_; if seasonal, describe: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

F. If this is a new source or major modification, answer the following questions.  
(Yes or No) Not Applicable

1. Is this source in a non-attainment area for a particular pollutant? \_\_\_\_\_

a. If yes, has "offset" been applied? \_\_\_\_\_

b. If yes, has "Lowest Achievable Emission Rate" been applied? \_\_\_\_\_

c. If yes, list non-attainment pollutants. \_\_\_\_\_

2. Does best available control technology (BACT) apply to this source?  
If yes, see Section VI. \_\_\_\_\_

3. Does the State "Prevention of Significant Deterioration" (PSD)  
requirement apply to this source? If yes, see Sections VI and VII. \_\_\_\_\_

4. Do "Standards of Performance for New Stationary Sources" (NSPS)  
apply to this source? \_\_\_\_\_

5. Do "National Emission Standards for Hazardous Air Pollutants"  
(NESHAP) apply to this source? \_\_\_\_\_

H. Do "Reasonably Available Control Technology" (RACT) requirements apply  
to this source? \_\_\_\_\_ No \*

a. If yes, for what pollutants? \_\_\_\_\_

b. If yes, in addition to the information required in this form,  
any information requested in Rule 17-2.650 must be submitted.

Attach all supportive information related to any answer of "Yes". Attach any justifi-  
cation for any answer of "No" that might be considered questionable.

\* Exempt under Chapter 17-2.650(2)(b)3., F.A.C.

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES (Other than Incinerators)

A. Raw Materials and Chemicals Used in your Process, if applicable: Not Applicable

Description	Contaminants		Utilization Rate - lbs/hr	Relate to Flow Diagram
	Type	% Wt		

B. Process Rate, if applicable: (See Section V, Item 1) Not Applicable

1. Total Process Input Rate (lbs/hr): \_\_\_\_\_

2. Product Weight (lbs/hr): \_\_\_\_\_

C. Airborne Contaminants Emitted: (Information in this table must be submitted for each emission point, use additional sheets as necessary)

Name of Contaminant	Emission <sup>1</sup>		Allowed Emission Rate per Rule 17-2	Allowable <sup>3</sup> Emission lbs/hr	Potential <sup>4</sup> Emission		Relate to Flow Diagram
	Maximum lbs/hr	Actual T/yr			lbs/Hr	T/yr	
Particulate	1.43	0.511	N/A	N/A	3.34	1.193	See Figure 1
Opacity	N/A	N/A	20% **	N/A	N/A	N/A	N/A

<sup>1</sup>See Section V, Item 2.

<sup>2</sup>Reference applicable emission standards and units (e.g. Rule 17-2.600(5)(b)2. Table II, E. (1) - 0.1 pounds per million BTU heat input)

<sup>3</sup>Calculated from operating rate and applicable standard.

<sup>4</sup>Emission, if source operated without control (See Section V, Item 3).

\*\* Chapter 17-2.610(2)(a), F.A.C.

D. Control Devices: (See Section V, Item 4)

Name and Type (Model & Serial No.)	Contaminant	Efficiency	Range of Particles Size Collected (in microns) (If applicable)	Basis for Efficiency (Section V Item 5)
Enclosures	Particulate	40%-70%	Not Applicable	See
				Attached
				Emissions
				Analysis

E. Fuels Not Applicable

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	avg/hr	max./hr	

\*Units: Natural Gas--MMCF/hr; Fuel Oils--gallons/hr; Coal, wood, refuse, other--lbs/hr.

Fuel Analysis:

Percent Sulfur: \_\_\_\_\_ Percent Ash: \_\_\_\_\_

Density: \_\_\_\_\_ lbs/gal Typical Percent Nitrogen: \_\_\_\_\_

Heat Capacity: \_\_\_\_\_ BTU/lb \_\_\_\_\_ BTU/gal

Other Fuel Contaminants (which may cause air pollution): \_\_\_\_\_

F. If applicable, indicate the percent of fuel used for space heating. Not Applicable

Annual Average \_\_\_\_\_ Maximum \_\_\_\_\_

G. Indicate liquid or solid wastes generated and method of disposal. Not Applicable

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H. Emission Stack Geometry and Flow Characteristics (Provide data for each stack):

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ ft.  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM Gas Exit Temperature: \_\_\_\_\_ °F.  
 Water Vapor Content: \_\_\_\_\_ % Velocity: \_\_\_\_\_ FPS

SECTION IV: INCINERATOR INFORMATION Not Applicable

Type of Waste	Type 0 (Plastics)	Type I (Rubbish)	Type II (Refuse)	Type III (Garbage)	Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)
Actual lb/hr Incinerated							
Uncontrolled (lbs/hr)							

Description of Waste \_\_\_\_\_  
 Total Weight Incinerated (lbs/hr) \_\_\_\_\_ Design Capacity (lbs/hr) \_\_\_\_\_  
 Approximate Number of Hours of Operation per day \_\_\_\_\_ day/wk \_\_\_\_\_ wks/yr. \_\_\_\_\_  
 Manufacturer \_\_\_\_\_  
 Date Constructed \_\_\_\_\_ Model No. \_\_\_\_\_

	Volume (ft) <sup>3</sup>	Heat Release (BTU/hr)	Fuel		Temperature (°F)
			Type	BTU/hr	
Primary Chamber					
Secondary Chamber					

Stack Height: \_\_\_\_\_ ft. Stack Diameter: \_\_\_\_\_ Stack Temp. \_\_\_\_\_  
 Gas Flow Rate: \_\_\_\_\_ ACFM \_\_\_\_\_ DSCFM\* Velocity: \_\_\_\_\_ FPS

\*If 50 or more tons per day design capacity, submit the emissions rate in grains per standard cubic foot dry gas corrected to 50% excess air.

Type of pollution control device:  Cyclone  Wet Scrubber  Afterburner  
 Other (specify) \_\_\_\_\_

Brief description of operating characteristics of control devices: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Ultimate disposal of any effluent other than that emitted from the stack (scrubber water, ash, etc.):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

NOTE: Items 2, 3, 4, 6, 7, 8, and 10 in Section V must be included where applicable.

**SECTION V: SUPPLEMENTAL REQUIREMENTS**

Please provide the following supplements where required for this application.

1. Total process input rate and product weight -- show derivation [Rule 17-2.100(127)]  
Not Applicable
2. To a construction application, attach basis of emission estimate (e.g., design calculations, design drawings, pertinent manufacturer's test data, etc.) and attach proposed methods (e.g., FR Part 60 Methods 1, 2, 3, 4, 5) to show proof of compliance with applicable standards. To an operation application, attach test results or methods used to show proof of compliance. Information provided when applying for an operation permit from a construction permit shall be indicative of the time at which the test was made.  
See Table 1 and Table 2
3. Attach basis of potential discharge (e.g., emission factor, that is, AP42 test).  
See Table 1 and Table 2
4. With construction permit application, include design details for all air pollution control systems (e.g., for baghouse include cloth to air ratio; for scrubber include cross-section sketch, design pressure drop, etc.)  
See Table 1 and Table 2
5. With construction permit application, attach derivation of control device(s) efficiency. Include test or design data. Items 2, 3 and 5 should be consistent: actual emissions = potential (1-efficiency).  
See Table 1 and Table 2
6. An 8 1/2" x 11" flow diagram which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are obtained.  
See Figure 1
7. An 8 1/2" x 11" plot plan showing the location of the establishment, and points of airborne emissions, in relation to the surrounding area, residences and other permanent structures and roadways (Example: Copy of relevant portion of USGS topographic map).  
See Figures 2 and 3
8. An 8 1/2" x 11" plot plan of facility showing the location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram. Not Applicable

9. The appropriate application fee in accordance with Rule 17-4.05. The check should be made payable to the Department of Environmental Regulation.
10. With an application for operation permit, attach a Certificate of Completion of Construction indicating that the source was constructed as shown in the construction permit.

**SECTION VI: BEST AVAILABLE CONTROL TECHNOLOGY Not Applicable**

A. Are standards of performance for new stationary sources pursuant to 40 C.F.R. Part 60 applicable to the source?

Yes  No

Contaminant	Rate or Concentration

B. Has EPA declared the best available control technology for this class of sources (If yes, attach copy)

Yes  No

Contaminant	Rate or Concentration

C. What emission levels do you propose as best available control technology?

Contaminant	Rate or Concentration

D. Describe the existing control and treatment technology (if any).

- |                           |                          |
|---------------------------|--------------------------|
| 1. Control Device/System: | 2. Operating Principles: |
| 3. Efficiency:*           | 4. Capital Costs:        |

\*Explain method of determining

- 5. Useful Life:
- 7. Energy:
- 9. Emissions:

- 6. Operating Costs:
- 8. Maintenance Cost:

Contaminant	Rate or Concentration

10. Stack Parameters

- a. Height: ft.      b. Diameter: ft.
- c. Flow Rate: ACFM      d. Temperature: °F.
- e. Velocity: FPS

E. Describe the control and treatment technology available (As many types as applicable, use additional pages if necessary).

1.

- a. Control Device: b. Operating Principles:
- c. Efficiency:<sup>1</sup> d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:<sup>2</sup> h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:
- j. Applicability to manufacturing processes:
- k. Ability to construct with control device, install in available space, and operate within proposed levels:

2.

- a. Control Device: b. Operating Principles:
- c. Efficiency:<sup>1</sup> d. Capital Cost:
- e. Useful Life: f. Operating Cost:
- g. Energy:<sup>2</sup> h. Maintenance Cost:
- i. Availability of construction materials and process chemicals:

<sup>1</sup>Explain method of determining efficiency.

<sup>2</sup>Energy to be reported in units of electrical power - KWH design rate.

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

3.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Cost:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

4.

a. Control Device:

b. Operating Principles:

c. Efficiency:<sup>1</sup>

d. Capital Costs:

e. Useful Life:

f. Operating Cost:

g. Energy:<sup>2</sup>

h. Maintenance Cost:

i. Availability of construction materials and process chemicals:

j. Applicability to manufacturing processes:

k. Ability to construct with control device, install in available space, and operate within proposed levels:

F. Describe the control technology selected:

1. Control Device:

2. Efficiency:<sup>1</sup>

3. Capital Cost:

4. Useful Life:

5. Operating Cost:

6. Energy:<sup>2</sup>

7. Maintenance Cost:

8. Manufacturer:

9. Other locations where employed on similar processes:

a. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

<sup>1</sup> Explain method of determining efficiency.

Energy to be reported in units of electrical power - KWH design rate.



(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

b. (1) Company:

(2) Mailing Address:

(3) City:

(4) State:

(5) Environmental Manager:

(6) Telephone No.:

(7) Emissions:<sup>1</sup>

Contaminant

Rate or Concentration

Contaminant	Rate or Concentration

(8) Process Rate:<sup>1</sup>

10. Reason for selection and description of systems:

<sup>1</sup>Applicant must provide this information when available. Should this information not be available, applicant must state the reason(s) why.

SECTION VII - PREVENTION OF SIGNIFICANT DETERIORATION Not Applicable

A. Company Monitored Data

1. \_\_\_\_\_ no. sites \_\_\_\_\_ TSP \_\_\_\_\_ ( ) SO<sub>2</sub>\* \_\_\_\_\_ Wind spd/dir

Period of Monitoring \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year

Other data recorded \_\_\_\_\_

Attach all data or statistical summaries to this application.

Specify bubbler (B) or continuous (C).

2. Instrumentation, Field and Laboratory

- a. Was instrumentation EPA referenced or its equivalent?  Yes  No
- b. Was instrumentation calibrated in accordance with Department procedures?  
 Yes  No  Unknown

B. Meteorological Data Used for Air Quality Modeling

1. \_\_\_\_\_ Year(s) of data from \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_ to \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_  
month day year month day year
2. Surface data obtained from (location) \_\_\_\_\_
3. Upper air (mixing height) data obtained from (location) \_\_\_\_\_
4. Stability wind rose (STAR) data obtained from (location) \_\_\_\_\_

C. Computer Models Used

1. \_\_\_\_\_ Modified? If yes, attach description.
2. \_\_\_\_\_ Modified? If yes, attach description.
3. \_\_\_\_\_ Modified? If yes, attach description.
4. \_\_\_\_\_ Modified? If yes, attach description.

Attach copies of all final model runs showing input data, receptor locations, and principle output tables.

D. Applicants Maximum Allowable Emission Data

Pollutant	Emission Rate
TSP	_____ grams/sec
SO <sub>2</sub>	_____ grams/sec

E. Emission Data Used in Modeling

Attach list of emission sources. Emission data required is source name, description of point source (on NEDS point number), UTM coordinates, stack data, allowable emissions, and normal operating time.

F. Attach all other information supportive to the PSD review.

G. Discuss the social and economic impact of the selected technology versus other applicable technologies (i.e., jobs, payroll, production, taxes, energy, etc.). Include assessment of the environmental impact of the sources.

H. Attach scientific, engineering, and technical material, reports, publications, journals, and other competent relevant information describing the theory and application of the requested best available control technology.

**TABLE 1: EMISSIONS CALCULATIONS (TONS/YR)**

SOURCE	EXISTING CONTROLLED EMISSIONS (TONS/YR)	THROUGHPUT (TONS x 10 <sup>-6</sup> )	EMISSIONS FACTOR* (LBS/TON) x 10 <sup>-6</sup>	HEIGHT OF DROP (h) (FT)	UNCONTROLLED EMISSIONS (TONS/YR)	CONTROLS		PROPOSED CONTROLLED EMISSIONS** (TONS/YR)
						TYPE	EFFICIENCY	
(1) Unloader from Barge	0.344	0.107 (Spillage)	151.6 h	63	0.511	Enclosure (Open Ended)	40	0.307
(2) Unloader to Hopper	0.172	1.07	17 h	18	0.164	Enclosure	70	0.049
(3) Hopper to Feeder	0.019	1.07	17 h	55	0.500	Enclosure	70	0.150
(4) Feeder to Conveyor B	0.070	1.07	17 h	2	0.018	Enclosure	70	0.005
Totals	0.605				1.193			0.511

Summary: Controlled emissions for the proposed system will be less than existing controlled emissions. Emissions from the proposed system will vary from 0.605 tons/yr to 0.511 tons/yr depending on the percentage of throughput unloaded by the replacement loader.

\* For Source (1):  $E = \frac{0.0018 (s/5)(u/5)(h/5)}{(m/5)^2 (y/6)^{1/3}}$ ; For Sources (2)-(4):  $E = \frac{0.0018 (s/5)(u/5)(h/10)}{(m/2)^2}$

\*\* At 100% throughput unloaded by replacement unloader.

Reference: Permit A029-136682

019/NN1

**TABLE 2: EMISSIONS CALCULATIONS (LBS/HR)**

SOURCE	MAXIMUM THROUGHPUT (TONS/HR)	EMISSIONS FACTOR* (LBS/TON) x 10 <sup>-6</sup>	HEIGHT OF DROP (h) (FT)	UNCONTROLLED EMISSIONS (LBS/HR)	CONTROLS		PROPOSED CONTROLLED EMISSIONS** (LBS/HR)
					TYPE	EFFICIENCY	
(1) Unloader from Barge	150 (Spillage)	151.6 h	63	1.43	Enclosure (Open Ended)	40	0.860
(2) Unloader to Hopper	1500	17 h	18	0.46	Enclosure	70	0.138
(3) Hopper to Feeder	1500	17 h	55	1.40	Enclosure	70	0.421
(4) Feeder to Conveyor B	1500	17 h	2	0.05	Enclosure	70	0.015
Totals				3.34			1.434

\* For Source (1):  $E = \frac{0.0018 (s/5)(u/5)(h/5)}{(m/5)^2(y/6)^{1/3}}$ ; For Sources (2)-(4):  $E = \frac{0.0018 (s/5)(u/5)(h/10)}{(m/2)^2}$

\*\* At 100% throughput unloaded by replacement unloader.

Reference: Permit A029-136682

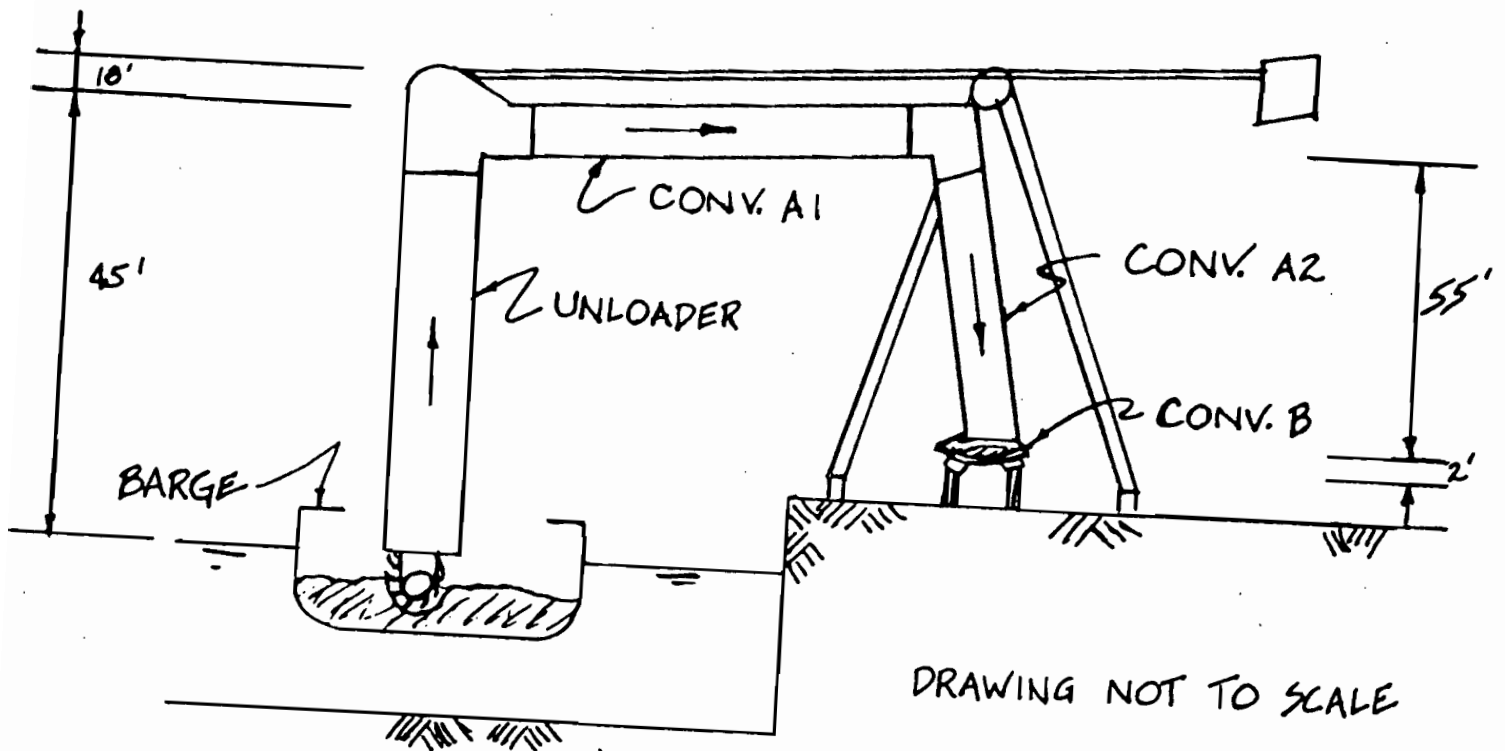
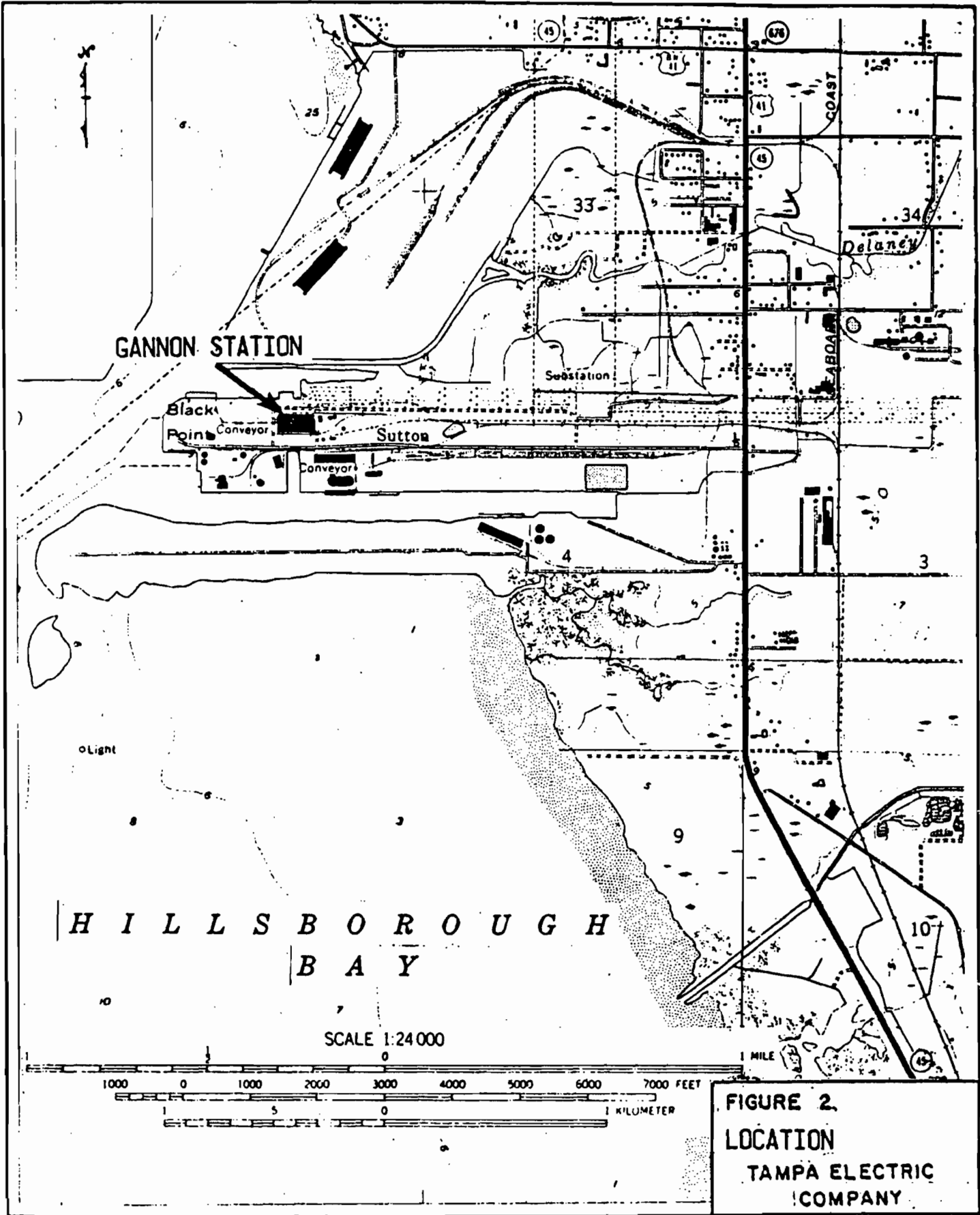
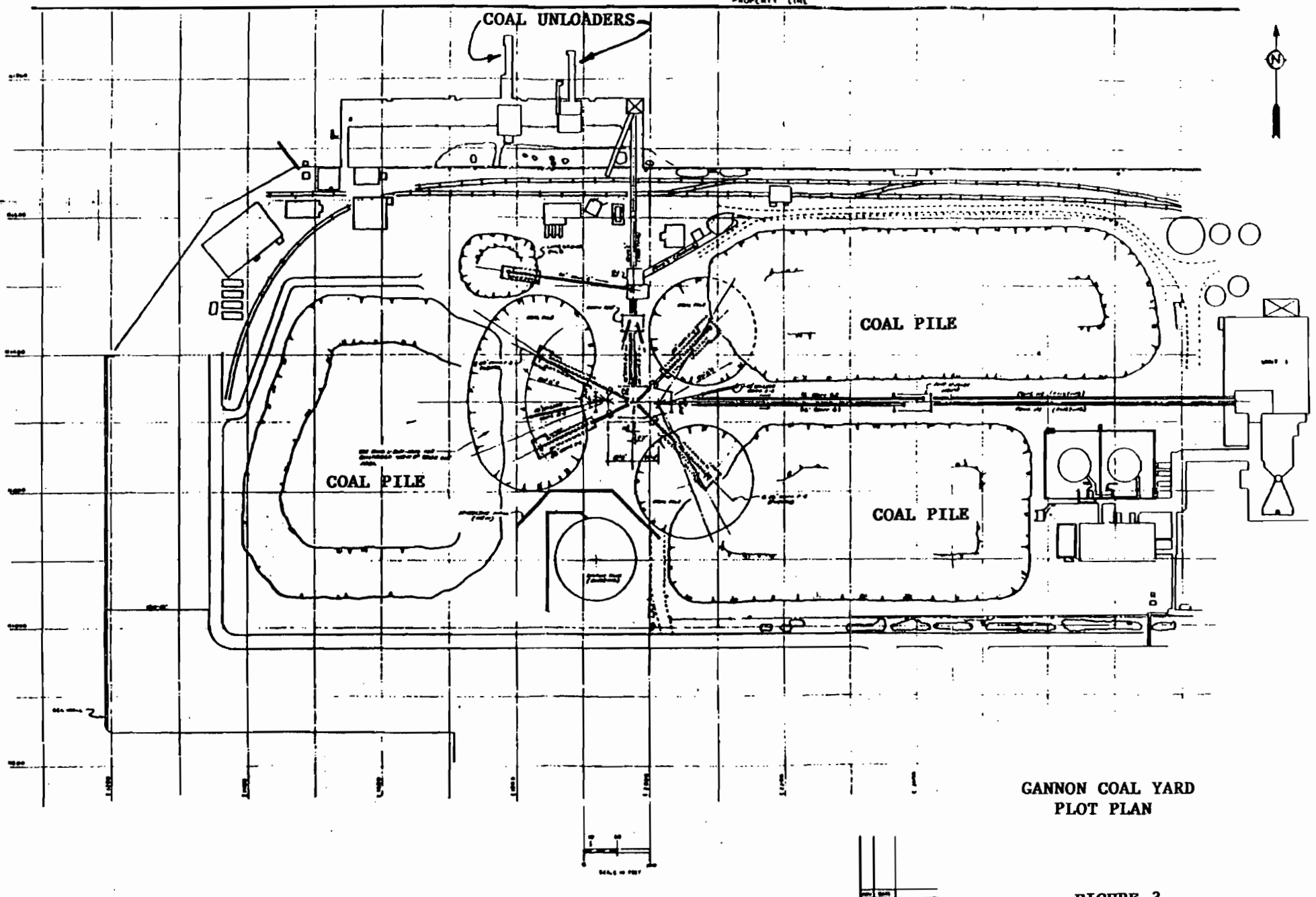


FIGURE 1: REPLACEMENT UNLOADER



**FIGURE 2.**  
**LOCATION**  
**TAMPA ELECTRIC**  
**COMPANY**

PROPERTY LINE



GANNON COAL YARD  
PLOT PLAN

FIGURE 3

2-167781  
CHECK NO.

167781



POST OFFICE BOX 111  
TAMPA, FLORIDA 33601

631

PAY:

DATE

THREE HUNDRED SIXTY FIVE AND NO/100 \*\* 07 25 88 \$ \*\*\*\*\*365.00  
DOLLARS \*\*\*\*\*

TO ENVIRONMENTAL PROTECTION  
THE COMMISSION  
ORDER  
OF

ONLY ONE SIGNATURE REQUIRED ON CHECKS OF \$2500.00 OR LESS

NCNB NATIONAL BANK OF FLORIDA • TAMPA, FLORIDA

THE ACCOMPANYING CHECK IS IN FULL PAYMENT OF ITEMS BELOW - DETACH BEFORE CASHING

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
0721	072188	449321	365.00		365.00
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME		TOTAL AMOUNT
A- 167781	072588	ENV903	ENVIRONMENTAL PROTECT		365.00

DO NOT U S MAIL  
HOLD FOR SEND TO CALL  
34845

TAMPA ELECTRIC COMPANY • P.O. BOX 111 TAMPA, FL 33601 • (813) 228-4111



2-167745

CHECK NO.

167745



POST OFFICE BOX 111  
TAMPA, FLORIDA 33601

831

PAY:

DATE

TWO HUNDRED FIFTY AND NO/100 DOLLARS \* 07 25 88 \$ \*\*\*\*\*250.00

TO FLORIDA DEPT OF ENVIRONMENTAL  
THE REGULATION  
ORDER  
OF

ONLY ONE SIGNATURE REQUIRED ON CHECKS OF \$2500.00 OR LESS

NCNB NATIONAL BANK OF FLORIDA • TAMPA, FLORIDA

THE ACCOMPANYING CHECK IS IN FULL PAYMENT OF ITEMS BELOW - DETACH BEFORE CASHING

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
0721	072188	449328	250.00		250.00
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME		TOTAL AMOUNT
S- 167745	072588	FLO004	FLORIDA DEPT OF ENVIR		250.00

330  
DO NOT U.S. MAIL  
HOLD FOR... SEND TO CALL  
34845

TAMPA ELECTRIC COMPANY • P.O. BOX 111 TAMPA, FL. 33601 • (813) 228-4111