

Appendix H-1, Permit History/ID Number Changes

Tampa Electric Company
F. J. Gannon

[DRAFT/PROPOSED/FINAL] Permit No.: 0570040-002-AV
Facility ID No.: 0570040

Permit History (for tracking purposes):

*2/6/95
Engineer Notes/
Documents, etc...*

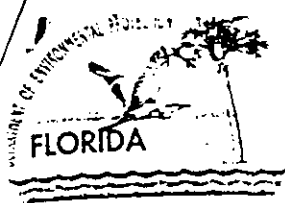
| E.U. ID No | Description | Permit No. | Issue Date | Expiration Date | Extended Date | Revised Date(s) |
|---------------|--------------------------------|-------------|---------------|--------------------|---------------|-----------------|
| -001 | Coal Fired Steam Generator | AO29-204434 | 1/31/92 | 1/31/97 | | 10/11/94 |
| -002 | Coal Fired Steam Generator | AO29-189206 | 2/7/91 | 2/6/96 | 8/14/96 | |
| -003 | Coal Fired Steam Generator | AO29-172179 | 4/26/90 | 4/19/95 | 8/14/96 | 10/11/94 |
| -004 | Coal Fired Steam Generator | AO29-255208 | 12/2/94 | 10/14/99 | | |
| -005 | Coal Fired Steam Generator | AO29-203511 | 1/1/92 | 1/1/97 | | |
| -006 | Coal Fired Steam Generator | AO29-203512 | 2/15/92 | 2/15/97 | | |
| -007 | Combustion Turbine | AO29-252615 | 8/31/94 | 8/31/99 | | |
| -008 | Coal Yard | AO29-216480 | 4/23/93 | 9/12/97 | | |
| -009 | Economizer Ash Silo | AO29-218858 | 8/29/89 | 11/6/97 | | |
| -010 | Fly Ash Silo #1 | AO29-250137 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -011 | Fly Ash Silo #2 | AO29-250140 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -012 | Pug Mill & Truck Loading | AO29-250137 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -013 | Unit 1 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -014 | Unit 2 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -015 | Unit 3 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -016 | Unit 4 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -017 | Unit 5 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |
| -018 | Unit 6 Coal Bunker w/Rotoclone | AO29-250139 | 7/20/94 | 7/12/99 | | 2/6/95 |

(if applicable) ID Number Changes (for tracking purposes):

Sold fuel bunker

From: Facility ID No.: 40HIL290040

To: Facility ID No.: 0570040



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

RECEIVED

Mr. Patrick A. Ho, P.E.
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

FEB 7 1995

ENVIRONMENTAL
PLANNING

Dear Mr. Ho:

Re: Air Permit Amendment Request Dated 01/18/95
DEP File Nos. A029-250137, A029-250139 & A029-250140

Pursuant to the meeting between TEC, DEP & the EPCHC on 01/12/95 and your request received 01/18/95, the following amendments are hereby made in the above referenced air operating permits:

Permit Number A029-250139, Units 1-6 Coal Bunker Rotoclones:

Specific Condition No. 4:

Change From:

4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 60 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Change To:

4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 90 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Patrick A. Ho, P.E.
Tampa, FL 33601-0111

Page Two

Specific Condition No. 7:

Change From:

7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

Permit Number A029-250140, F. J. Gannon Station Units 1-4 Fly Ash Silo with Baghouse:

Specific Condition No. 4:

Change From:

4. Test the emissions from the fly ash silo annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Change To:

4. Test the emissions from the fly ash silo annually for the following pollutants within 90 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Permit Number AO29-250137, F. J. Gannon Station Units 5 and 6
Fly Ash Silo with Baghouse and Pug Mill:

Specific Condition No. 4:

Change From:

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

*(X) Particulate Matter ***(X) Visible Emissions
*(X) Visible Emissions

Change To:

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 90 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

*(X) Particulate Matter ***(X) Visible Emissions
*(X) Visible Emissions

Permit Number A029-250137, F. J. Gannon Station Units 5 and 6
Fly Ash Silo with Baghouse and Pug Mill:

Specific Condition No. 8:

Change From:

8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum loading rate, is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.5 tons/hour. Determination of the process rate will be done by the operating procedures as outlined in Specific Condition No. 7 above and employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum loading rate, is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

Permit Number AO29-250140, F. J. Gannon Station Units 1-4 Fly
Ash Silo with Baghouse:

Specific Condition No. 8:

Change From:

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of the process rate will be done by the operating procedures as outline in Specific condition No. 7 above and employed on a consistant basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

The petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the department's action or proposed action.

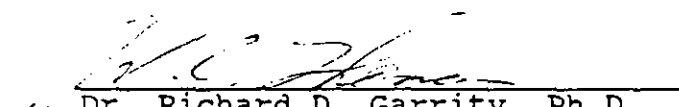
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the permit amendment have a right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this permit amendment, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This permit amendment is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for an extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, Florida Administrative Code. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellant 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 the Final Order is filed with the Clerk of the Department.

This amendment letter or a copy of this letter must be attached to and becomes a part of air operating permits number AO29-250137, AO29-250139 and AO29-250140. If you have any questions, please contact George Richardson in the Air Permitting Section at (813)744-6100, Ext. 105.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For Dr. Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100

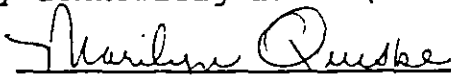
cc: Environmental Protection Commission of
Hillsborough County

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this Notice of Permit Amendment and all copies were mailed by certified mail before the close of business on FEB 06 1995 to the listed persons.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to Paragraph 120.52(11), Florida Statutes, with the designated Deputy Department Clerk, receipt of which is hereby acknowledged.


Clerk

FEB 06 1995

Date



Department of Environmental Protection

RECEIVED

OCT 14 1994

CERTIFIED MAIL

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

ENVIRONMENTAL
PLANNING Virginia B. Wetherell
Secretary

OCT 11 1994

Mr. Patrick A. Ho, P.E., Manager
Environmental Planning
Tampa Electric Company (TEC)
Post Office Box 111
Tampa, Florida 33601-0111

Hillsborough County

NOTICE OF PERMIT AMENDMENTS

RE: FDEP Permits: AO29-204434 - F.J. Gannon Station No. 1
AO29-172179 - F.J. Gannon Station No. 3
✓AO29-160269 - F.J. Gannon Station No. 4
AO29-203511 - F.J. Gannon Station No. 5
AO29-203512 - F.J. Gannon Station No. 6

On September 2, 1994, the Southwest District Office of the Department of Environmental Protection (Department), received your request for amendments to the above listed FDEP air pollution operating permits. The Department has reviewed and approved the request and hereby amends FDEP Permits AO29-204434, AO29-172179, AO29-160269, AO29-203511, and AO29-203512 as follows:

FDEP Permit AO29-204434, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of February 19. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required.

(Continued On Next Page)

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

FDEP Permit AO29-204434, Specific Condition No. 6. (Continued)

In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-172179, Specific Condition No. 5.

Change Specific Condition No. 5 to read as follows:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of November 13. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

FDEP Permit AO29-160269, Specific Condition No. 5.

Change Specific Condition No. 5 to read as follows:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of May 9. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-203511, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of April 15. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required.

(Continued On Next Page)

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

FDEP Permit AO29-203511, Specific Condition No. 6. (Continued)

In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-203512, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of June 19. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

A person whose substantial interests are affected by these permit amendments may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this permit amendment. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information:

- (a) The name, address, and the telephone number of each petitioner, the applicant's name and address, the Department Permit File Numbers and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 position taken by it in these permit amendments. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any rights such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

(Continued on Next Page)

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

These permit amendments are final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

When the Order (Permit Amendments) is final, any party to the Order has the right to seek judicial review of the Order 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 Street 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 the Final Order is filed with the Clerk of the Department.

This letter or a copy of this letter must be attached to and become a part of FDEP Permits AO29-204434, AO29-172179, AO29-160269, AO29-203511, and AO29-203512.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



For Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

copy to: Ms. Janice Taylor - TEC
Mr. Richard Kirby, EPCHC

4tecxxx1.pmt

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

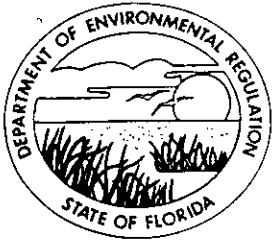
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENTS and all copies were mailed before the close of business on OCT 11 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED,
on this date, pursuant to Section
120.52(11), Florida Statutes, with
the designated Department Clerk,
receipt of which is hereby
acknowledged.

Marilyn Quiske
Clerk

OCT 11 1994
Date



Unit 1

Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-204434
County: Hillsborough

Enclosed is Permit Number A029-204434 to operate the Gannon Station Unit No. 1 steam generator designated as Unit No. 1, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;



(f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

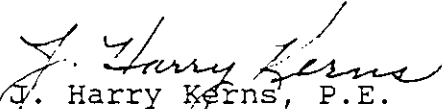
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of 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 the Final Order is filed with the Clerk of the Department.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

Attachment:

cc: ✓ Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on JAN 17 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

JAN 17 1992
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: AO29-204434
County: Hillsborough
Expiration Date: 01/31/97
Project: Gannon Station Unit
No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code 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 of hereof and specifically described as follows:

For the operation of a 1257 MMBTU/hr. coal fired steam generator designated as Unit No. 1. This "wet" bottom boiler was manufactured by ~~Riley Stoker~~ Corporation and is of the cyclone firing type. The generator has a nameplate capacity of 125 MW. Particulate emissions are controlled by a Combustion Engineering, Inc. electrostatic precipitator.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 01

Replaces Permit No.: AO29-125315

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]
3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.]
4. The maximum allowable SO₂ emission rate from Unit No. 1 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]
5. Excess Emissions:
 - A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]
 - B. Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
 - C. Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

- D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

6. Unit No. 1 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of February 19, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

7. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 1257 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 1257 MMBtu/hr. The actual heat input rate shall be specified in each test.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

A. Process System Performance Parameters:

- 1. Source Designator: Gannon Unit No. 1
- 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
50 tons coal/hour
- 3. Operating Pressure: 1,575 psi
- 4. Operating Temperature: 1000° F.
- 5. Maximum Design Steam Capacity: 910,000 pounds per hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion
Engineering, Inc.
3. Design Flow Rate: 440,000 ACFM
4. Primary Voltage: 460 volts
5. Primary Current: 258 amps
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1,500 milliamps
8. Design Efficiency: 99.09%
9. Pressure Drop: 1.59 in. H₂O (avg)
10. Rapper Frequency: 1/1.5 min. - 1/4.0 min. (avg)
11. Rapper Duration: Impact
12. Gas Temperature: 260± 55° F. (avg)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Opacity
Steam pressure
Steam temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers. Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitators and the ductwork for gas leaks at least once a month. Note any problems and action taken.

- → 13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

15. An original application to renew this operating permit and three (3) 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. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Director of District Management

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

813-985-7402
566Com - 5208000

BOB MARTINEZ
GOVERNOR

DALE TWACHMANN
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.: A029-125315
County: Hillsborough
Expiration Date: 1-27-92
Project: Cannon Station
Unit No. 1

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 1257 MMBTU/hr coal fired steam generator as Unit No. 1. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclone firing type. The generator has a nameplate capacity of 125 MW. Particulate emissions are controlled by a Combustion Engineering, Inc. Electrostatic Precipitator.

Location: Port Sutton Rd., Tampa

UTM: 17-360.1E 3087.5N NEDS NO: 0040 Point ID: 01

Replaces Permit No.: A029-47731 & AC29-41943

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125315
Project: Cannon Station Unit
No. 1.

14. (con't)

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. The maximum allowable particulate emission rate from this source shall be 0.1 pounds per MMBTU heat input over a two hour average [Section 17-2.650(2)(c)2.b.(i), F.A.C.], except for any 3 hours during a 24 hour period in which the boiler is being cleaned by soot blowing or experiencing a load change. Under these operating conditions, the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.].

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125315
Project: Cannon Station Unit
No. 1.

2. The maximum opacity from this source shall be 20 percent [Section 17-2.650(2)(c)2.b.(ii), F.A.C.] except for: any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent [Section 17-2.600(5), F.A.C.]; any 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by soot blowing or experiencing a load change the opacity shall not exceed 60%; allowing four six minute periods during the 3 hours period of unlimited opacity, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.]; and any excess emissions otherwise allowed under Sections 17-2.250(1), (2), and (3), F.A.C.

3. The maximum allowable SO₂ emission rate from this unit shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Cannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].

4. This unit shall be stack tested for particulate matter (under both soot blowing and non-soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of Feb. 19, 1986 or within a ninety (90) day period prior to this date. The Method 9 Test period on this source shall be sixty (60) minutes. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of test data shall be submitted to both the Hillsborough County Environmental Protection Commission and Florida Department of Environmental Regulation within 45 days for such testing.

5. Compliance with the SO₂ emission standards set for the Cannon Station shall be achieved in part by adhering to the Francis J. Cannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Hillsborough County Environmental Protection Commission and the Florida Department of Environmental Regulation shall each receive a copy of this report.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125315
Project: Cannon Station Unit
No. 1.

6. A report shall be submitted to both the Florida Department of Environmental Regulation and Hillsborough County Environmental Protection Commission within 30 days following each calendar quarter detailing excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent, except as specified in Specific Condition No. 2. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Section 17-2.710(1) F.A.C.].

7. Submit for this facility, each calendar year, on or before 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 fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

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

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

- A. Process System Performance Parameters:
 - (1) Source Designator: Cannon Unit No. 1
 - (2) Design Fuel Consumption Rate at Maximum Continuous Rating: 50 tons coal/hour.
 - (3) Operating Pressure: 1575 psi
 - (4) Operating Temperature: 1000 degrees F
 - (5) Maximum Design Steam Capacity: 910,000 pounds per hour
- B. Particulate Control Equipment Data:
 - (1) Control Equipment Designator: Electrostatic Precipitator
 - (2) Electrostatic Precipitator Manufacturer: Combustion Engineering, Inc.
 - (3) Design Flow Rates: 440,000 ACFM
 - (4) Primary Voltage: 460 volts
 - (5) Primary Current: 250 amps
 - (6) Secondary Voltage: 56.6 kilovolts
 - (7) Secondary Current: 1500 milliamps
 - (8) Design Efficiency: 99.09%

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125315
Project: Cannon Station Unit
No. 1.

- (9) Pressure Drop: 1.59 inches of H₂O(ave)
- (10) Rapper Frequency: 1/1.5 min - 1/4.0 min (ave)
- (11) Rapper Duration: Impact
- (12) Gas Temperature: 260± 55 degrees F (ave)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded:

Visible emissions
Steam Pressure
Steam Temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers.
Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Hillsborough County Environmental Protection Commission upon request [Subsequent 17-2.650(2)(g)5., F.A.C.].

10. A continuous emission monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Section 17-2.710(1), F.A.C.

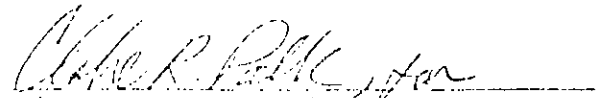
PERMITTEE:
Tampa Electric Company

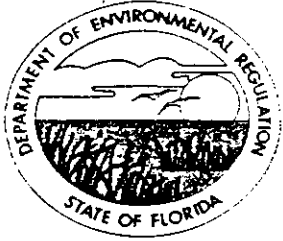
Permit No.: AO29-125315
Project: Cannon Station Unit
No. 1.

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

Issued this ^{27th} day of January
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity Ph.D.
District Manager



Unit 2

Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

Carol M. Browner, Secretary

RECEIVED

FEB 8 1991

NOTICE OF PERMIT

E.P.C. OF H.C.
AIR PROGRAM

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT ISSUANCE

February 7, 1991

In the Matter of an Application
for Permit by:

DER File No. AO29-189206
Hillsborough County

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

Enclosed is permit number AO29-189206 to operate the F. J. Gannon Station, No. 2 Boiler, issued pursuant to Section 403, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrants reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

Gary A. Maier

Gary A. Maier, BS ChE, JD

cc: Environmental Protection Commission
of Hillsborough County

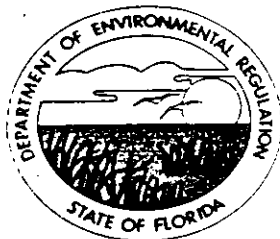
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all
copies were mailed before the close of business on
FEB - 7 1991 to the listed persons.

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

Marilyn Quispe
Clerk

FEB - 7 1991
Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

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 1,257 MM Btu/hour coal fired steam generator designated as Unit No. 2. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclonic firing type. The generator has a nameplate capacity of 125 MW.

Particulate matter (PM) emissions are controlled by a Combustion Engineering, Inc. electrostatic precipitator. Sulfur dioxide emissions (SO₂) resulting from the combustion of fuel are determined by periodic sampling and analysis of the fuel.

Location: Port Sutton Road, Tampa

UTM: 17-359.9 E 3087.5 N NEDS NO: 0040 Point ID: 02

Replaces Permit No.: AO29-112412

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Except as provided in specific condition #5; the particulate matter emission rate for this source shall not exceed 0.1 pound per million Btu heat input, over a two hour average.
[Rule 17-2.600(5)(a)2., F.A.C.].
3. Except as provided in specific condition #5; visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%.
[Rule 1-3.63(d), Rules of the Hillsborough County Environmental Protection Commission, Section 403.182(6), F.S., and Rule 17-2.600(5)(a)1., F.A.C.].
4. The sulfur dioxide emission rate for this source shall not exceed 2.4 pounds of sulfur dioxide per million Btu heat input on a weekly average. Francis J. Gannon units 1 through 6 in total shall not emit more than 10.6 tons per hour of sulfur dioxide on a weekly average.
[Rule 17-2.600(5)(a)3.b.(i), F.A.C.].
5. Excess Emissions:
 - A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized. [Rule 17-2.250(2), F.A.C.].
 - B. Excess emissions resulting from boiler cleaning (soot blowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions is minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.].

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

- C. Excess emissions resulting from malfunctions* are permitted providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions is minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.].
- D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.].

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.].

6. This source shall be stack tested for particulate matter and visible emissions, under both sootblowing and non-sootblowing operation conditions, at intervals of 12 months from the date of August 28, 1990, or within a 90 day period prior to that annual date. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. The visible emissions DER Method No. 9 test period for this source shall be at least 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing.

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

7. This source shall be stack tested for sulfur dioxide at intervals of 12 months from the date of August 28, 1990, or within a 90 day period prior to that annual date. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing.

8. Compliance testing for particulate matter emissions and visible emissions may be conducted either: (a) without fly ash re-injection occurring, or (b) while fly ash collected by the precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate. If the most recent particulate and visible emissions compliance tests were conducted without fly ash re-injection occurring, and fly ash re-injection occurs for any reason other than a malfunction, then the results from new particulate and visible emissions compliance tests conducted while fly ash collected by the precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 60 days of the date that such fly ash re-injection occurred. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60 day time limit on a case by case basis.
[Rule 17-4.070(3), F.A.C.].

9. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved, in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan previously submitted by Tampa Electric Company and incorporated by reference. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.
[Rules 17-4.070(3) and 17-2.600(5)(a)3.b.(i), F.A.C.].

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

10. Tampa Electric Company shall submit to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County a written report of emissions in excess of the emission limiting standards as set forth in Rule 17-2.600(5) for each calendar quarter. The nature and cause of the excessive emissions shall be explained. This report does not relieve Tampa Electric Company of the legal liability for violations. All recorded data shall be maintained on file for a period of at least 2 years. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P. The report shall be submitted within 30 days following each calendar quarter. [Rules 17-2.710(1), 17-2.710(2), and 17-4.070(3), F.A.C.].

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

A. Process System Performance Parameters:

1. Source Designators: Gannon Unit No. 2
2. Design Fuel Consumption Rate at Maximum Continuous Rating: 51 tons coal/hour
3. Operating Pressure: 1580 p.s.i.
4. Operating Temperature: 100 degrees F.
5. Maximum Design Steam Capacity: 950,000 pounds per hour

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion Engineering, Inc.
3. Design Flow Rate: 440,000 ACFM
4. Primary Voltage: 460 volts
5. Primary current: 258 amps.
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1500 milliamps.
8. Design Efficiency: 99.09%
9. Pressure Drop: 1.59 inches of H2O (avg.)
10. Rapper Frequency: 1/1.5 min. - 1/4.0 min. (avg.)
11. Rapper Duration: Impact
12. Gas Temperature: 250±55 degrees F. (avg.)

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible Emissions
Steam Pressure
Steam Temperature
Steam Flow

Daily

Fuel Input
Primary Voltage
Primary Current
Secondary Voltage
Secondary Current
Inspect system controls. Make Minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers.
Service as needed.
Observe operation of all rapper and transformer/rectifier controls.
Inspect for leaks in the boiler, electrostatic precipitator, and associated duct work, and take corrective action if leaks develop.

- D. Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request.
[Rule 17-2.650(2)(g)5., F.A.C.].

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

12. The maximum permitted heat input rate for this source is 1,257 million Btu per hour. Approved compliance testing of emissions shall be conducted within $\pm 10\%$ of the maximum permitted heat input rate, when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60 day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. Emission limitations are not automatically adjusted above the allowable levels established by the permit and/or the design process rate. The actual heat input rate shall be specified in each test report. Failure to submit the actual heat input rate, or operation at conditions during testing which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 17-4.070(3), F.A.C.]

13. Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner. The Environmental Protection Commission of Hillsborough County may waive the 15 day notice requirement on a case by case basis.
[Rule 17-2.700(2)(a)9., F.A.C.]

14. A continuous monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

15. Pursuant to Chapter 403.061(13), Florida Statutes, submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information:

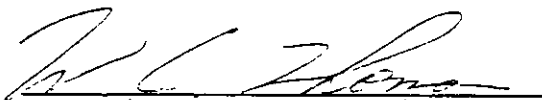
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

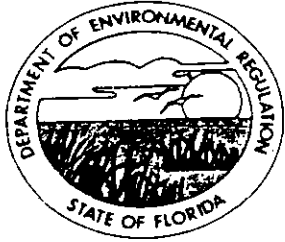
An emissions report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

16. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 17-2, F.A.C., or any other requirements under federal, state, or local law. [Rule 17-2.210, F.A.C.].

17. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County by December 8, 1995.
[Rules 17-4.050(2) and 17-4.090(1), F.A.C.].

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

For 
Dr. Richard D. Garrity
Deputy Assistant Secretary
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
Phone (813) 623-5561



Unit 3

Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garnry, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-172179
County: Hillsborough
Expiration Date: 04/19/95
Project: F.J. Gannon Station
Unit No. 3

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station 1599 MMBTU/hr. coal fired steam generator designated as Unit No. 3 equipped with an optional flue gas recirculation (heat recovery) system to maintain steam temperature at low loads. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclonic firing type. The generator has a nameplate capacity of 179.5 MW. Particulate matter emissions generated during the operation of the unit are controlled by a Combustion Engineering, Inc., electrostatic precipitator.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 03

Replaces Permit No.: AO29-95792

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum allowable particulate emission rate for this source shall be 0.1 pounds per MMBTU heat input over a two hour average (Section 17-2.650(2)(c)2.b.(i), F.A.C.), except for any 3 hours during a 24 hour period in which the boiler is being cleaned by sootblowing or experiencing a load change. Under these operating conditions the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized (Section 17-2.250(3), F.A.C.).
3. The maximum opacity from this source shall be 20 percent (Section 17-2.650(2)(c)2.b.(ii), F.A.C.), except for: any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent (Section 17-2.600(5), F.A.C.); any 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by sootblowing or experiencing a load change the opacity shall not exceed 60%, and allowing four six minute periods during the 3 hours period of unlimited opacity providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized (Section 17-2.250(3), F.A.C.); and any excess emissions otherwise allowed under Section 17-2.650(1), (2), and (3), F.A.C.
4. The maximum allowable SO₂ emission rate from this unit shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].
5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of September 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM testing, such as under overcast days, independent VE testing may be performed at a later date within the 5 day testing window. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued)

6. The permitted rate of this source is 159 MW based on the average load at which the September 13, 1989, source emission test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted rate, when practical, and when the fly ash collected by the precipitator is being reinjected into the boiler. A compliance test submitted at operating levels less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until another test (showing compliance) a higher rate is submitted. At any time the permitted rate of this source is exceeded by at least 10%, a compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County.

7. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45² days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.

8. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Rule 17-2.710(1), F.A.C.].

9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued)

The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.

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

A. Process System Performance Parameters:

1. Source Designators: F.J. Gannon Station Unit No. 3
2. Design Fuel Consumption Rate at Maximum Continuous Rating:
65 tons coal/hour
3. Operating Pressure: 1980 p.s.i.
4. Operating Temperature: 1000 degrees F.
5. Maximum Design Steam Capacity: 1,160,000 pounds per hour

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion
Engineering, Inc.
3. Design Flow Rate: 574,000 ACFM
4. Primary Voltage: 460 volts
5. Primary Current: 172 amps.
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1000 milliamps
8. Design Efficiency: 99.07%
9. Pressure Drop: 1.6 inches of H₂O (avg.)
10. Rapper Frequency: 1/1.5 min. - 2 1/4.0 min. (avg.)
11. Rapper Duration: Impact
12. Gas Temperature: 250± 55 degrees F. (avg.)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions
Steam Pressure
Steam Temperature (East and West)
Steam Flow

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued)

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers.
Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

D. Records:

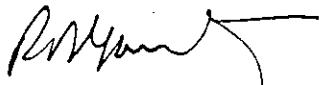
Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department and/or Environmental Protection Commission of Hillsborough County upon request [Rule 17-2.650(2)(g)5., F.A.C.].

11. A continuous monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

12. Pursuant to Rule 17-4.090, F.A.C, an application for renewal of permit to operate this source, completed in quadruplicate, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 2 day of April
1990.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard Garrity, Ph.D.
Deputy Assistant Secretary



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF TDF TEST AUTHORIZATION

Mr. Philip J. Matonte, P.E.
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

RECEIVED

MAR 7 1996

ENVIRONMENTAL
PLANNING

Dear Mr. Matonte:

Re: Letters dated 10/20/95 & 12/8/95
Reference Permit No. AO29-172179

Pursuant to Rule 62-4.210(1)(b)6., F.A.C., the Department authorizes your request to conduct a trial test burn of a coal/tire-derived fuel (TDF) mix containing a maximum of 20% TDF by weight at your Gannon Unit 3 facility as proposed. The authorization is granted with the following stipulations:

1. The Tampa Electric Company (TEC) shall notify in writing this office and the Environmental Protection of Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance emission test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.
2. TEC shall notify this office and the EPCHC of the date initial testing of the baseline test, which uses coal only, within 5 days after that date.
3. TEC shall notify this office and the EPCHC of the date of first introducing TDF in Unit 3, within 5 days after that date.
4. The baseline testing shall be conducted for no less than 7 days and no more than 10 days.
6. Trial test burn testing when using TDF shall be conducted for a maximum of 21 days.
7. All testing shall be conducted within 60 days after the date TDF is first introduced into Unit 3.

Page 1 of 5

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

8. The maximum total amount of TDF that may be used is 13 tons/hr. and 5,000 tons for up to 60 days from the date of first introducing TDF in Unit 3.
9. Only TDF that has a nominal 1 square inch size may be used.
10. Coal used for the baseline tests and trial burn test shall be conducted with coal that has the same typical heat content.
11. No TDF shall be used after 60 days from the date of first introducing TDF in Unit 3. This limitation is applicable even if all testing has been completed before the end of the 60th day of when TDF was first introduced into Unit 3, provided the emission limitations of permit AO29-172179 are not exceeded.
12. Testing during each operating scenario shall be in accordance with the following:
 - A. During each of the baseline and trial burn test periods when stack emission testing is conducted, sulfur dioxide, nitrogen oxides, carbon dioxide, and opacity emissions data shall be reported using continuous emission monitors (CEMS) that are located in the stack. The monitoring systems will be quality assured pursuant to 40 CFR 75, Appendix B. The data assessment report from 40 CFR 60, Appendix F, for the most recent relative accuracy test audit (RATA) and most recent cylinder gas audit (CGA), will be submitted with the test report(s).
 - B. During the baseline test period that only uses coal (steady-state & soot blowing conditions), EPA reference method emission testing shall be performed for particulate matter, visible emissions, and sulfuric acid mist. The EPA Method 17 test for particulates shall include EPA Methods 1, 2, 3, and 4. During these tests Unit 3 shall be operating within 90%-100% of maximum capacity (159 MW output & 65 tons/hr. total fuel input rate).
 - C. During each trial burn test that uses coal and TDF (steady-state & soot blowing conditions), EPA reference method emission testing shall be performed for particulate matter, visible emissions, and sulfuric acid mist. During these tests Unit 3 shall be operating with 90%-100% of maximum capacity (159 MW output & 65 tons/hr. total fuel input rate).

- D. Particulate testing and visible emissions testing shall be conducted when fly ash collected by the ESP is being re-injected into the boiler.
- E. Sulfuric acid mist emission testing shall be conducted when fly ash collected by the ESP is being re-injected into the boiler.
- F. All fuel testing shall be done on coal alone prior to blending with tires.
- G. Composite weekly coal fuel analysis results shall be supplied for the baseline test and the trial burn test. A single representative TDF fuel analysis results shall be supplied for each time the fuel bunker is charged for use during each CEM/stack tested operating scenario. The fuel analysis shall include the following:

Fuel Analysis

Trace Metal Analysis

| | |
|--|-----------|
| Sulfur, wt. % | Beryllium |
| Volatiles, content, wt. % | Chromium |
| Nitrogen, wt. % | Lead |
| Ash, wt. % | Mercury |
| Calorific Value, BTU/lb. | Nickel |
| Carbon, wt. % | Vanadium |
| Moisture, wt. % | Zinc |
| TDF square inch size | |
| Coal origin (i.e., Eastern Kentucky, Blue Gem, etc.) | |

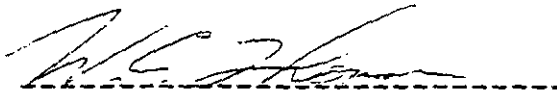
- H. Records of the following operating parameters during each CEM/stack tested operating scenario shall be submitted with the associated test report:
 - 1. Fuel input rates (tons/hr.)
 - 2. Fuel ratio(s) on an hourly basis
 - 3. Opacity, CO, NOx, and SO2 CEM data, (The SO₂ and NO_x CEM data shall be reported in lbs./MMBTU on an hourly average basis)
 - 4. Operating temperatures (degrees F)
 - 5. Operating conditions (soot blowing, load changes, normal operations, fuel additives, etc.)
 - 6. Power output (MW)
 - 7. Air to fuel ratio(s)

13. TEC shall comply with the emission limitations of permit AO29-172179 at all times during the CEM/stack tests, operating scenarios, and operating modes approved by this authorization.
14. TEC shall notify this office and the EPCHC of the date the last test run is conducted within 5 days of that date.
15. All test reports/results shall be submitted to this office and the EPCHC within 45 days of the date of the last test run.
16. If at any time during the use of TDF the emission limitations of permit AO29-172179 are exceeded, TEC shall immediately cease using TDF. Performance testing or continued operation when using TDF shall not resume until the appropriate measures to correct the problem have been corrected and approved by the Department in writing.
17. The trial test burn and other related testing, requested to be conducted, shall be conducted under the supervision of a Florida registered professional engineer. The professional engineer shall sign and seal each copy of the stack test reports and other related information.
18. The use of TDF shall not result in the release of objectionable odors.
19. This authorization expires on June 30, 1996.
20. If additional time is needed to conduct the tests, TEC shall request in writing to this office and the EPCHC an extension of time. The request shall have attached documentation of the progress to date and shall identify what is left to be done to complete the tests.

Any party to this Order (authorization) 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 Notice is filed with the Clerk of the Department.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



W.C. Thomas, P.E.
District Air Program Administrator

cc: EPCHC

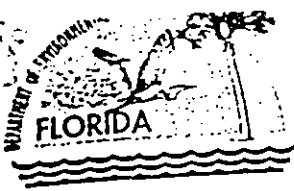
CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF TDF TEST AUTHORIZATION and all copies were mailed before the close of business on 3/5/96 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Carol S. Moore 3/5/96
(Clerk) (Date)



Department of Environmental Protection

SEP 15 1994

ENVIRONMENTAL
PLANNING

Virginia B. Wetherell
Secretary

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

September 13, 1994

Ms. Janice Taylor
Environmental Engineer
Tampa Electric Company (TEC)
Post Office Box 111
Tampa, Florida 33601-0111

Dear Ms. Taylor:

RE: F.J. Gannon Unit No. 3
Permit A029-172179
Stack Test Scheduled for September 20, 1994

On September 2, 1994, the Department received your request for a permit amendment for the F.J. Gannon Unit Nos. 1, 3, 4, 5, and 6. Based on your telephone conversation with Mr. John J. Taylor, on this date, the Department will consider this request as complete. Consequently, you may proceed with the annual stack test for the F.J. Gannon Unit No. 3, scheduled for September 20, 1994, based on the following revised test condition:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of November 13. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources - Emission Monitoring and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Page 1 of 2

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

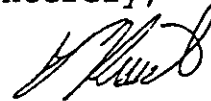
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Ms. Janice Taylor
Tampa Electric Company (TEC)

September 12, 1994

If you have any questions, please call John J. Taylor, Permit Engineer
at this Department, at (813) 744-6100, ext. 408.

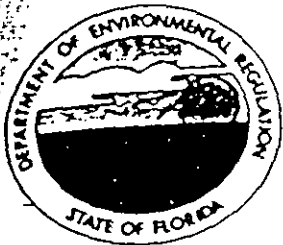
Sincerely,



Gerald Kissel, P.E.
District Air Engineer

copy: Mr. Richard Kirby, EPCHC

tec94179.lt1



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtman, Secretary

John Sheares, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

May 9, 1990

RECEIVED

MAY 9 1990

ENVIRONMENTAL
PLANNING

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

Dear Mr. Williams:

Re: Hillsborough County - AP
Permit Amendment
F.J. Gannon Station Unit No. 3

The Department hereby acknowledges your request to amend permit number A029-172179. The following changes are hereby made in the permit:

CHANGE SPECIFIC CONDITION NO. 5 FROM:

5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of September 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM testing, such as under overcast days, independent VE testing may be performed at a later date within the 5 day testing window. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing.

CHANGE SPECIFIC CONDITION NO. 5 TO:

5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of November 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM

Mr. Jerry L. Williams
Tampa, FL 33601-0111

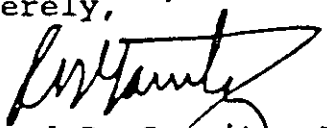
Page Three

Persons whose substantial interests are affected by this permit amendment have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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; 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 the Final Order is filed with the Clerk of the Department.

A copy of this letter must be attached to and becomes a part of permit number A029-172179. If you have any questions, please call Mr. J. Harry Kerns of my staff at (813) 623-5561.

Sincerely,


Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

RDG/SKB/bb

cc: Environmental Protection Commission
of Hillsborough County

Mr. Jerry L. Williams
Tampa, FL 33601-0111

Page Four

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on MAY 9 1990 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Marilyn Quispe MAY 9 1990
Clerk Date



Department of Environmental Protection

Unit 4

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

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

PERMIT/PROJECT:

Permit No: AO29-255208
County: Hillsborough
Expiration Date: 10/14/99
Project: Steam Generator
F. J. Gannon Station Unit No. 4

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-200 through 297, and Chapter 62-4. 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 the F. J. Gannon Station steam generator designated as Unit No. 4. This unit is a Babcock and Wilcox Corporation wet bottom cyclonic-fired boiler with a nameplate rating of 187.5 Megawatts. The boiler is fired with coal at a maximum heat input rate of 1,876 MMBtu/hour (maximum coal firing rate of 80 tons/hour). Virgin No. 2 oil is used as an ignition fuel during startup of the unit.

Particulate emissions in the boiler exhaust gases are controlled by a Combustion Engineering, Inc. rigid frame electrostatic precipitator prior to discharge through two (2) 306 foot tall exhaust stacks (designated as East and West Stacks).

This boiler is also permitted to burn used oil in accordance with 40 CFR 279.

Location: F. J. Gannon Station - Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N **NEDS No:** 0040 **Point ID Nos:**
04 - East Stack
19 - West Stack

Replaces Permit No.: AO29-160269
(Note: Construction permit for this source (AC29-41940) was issued on August 7, 1981)

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

1. A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-297, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

Operation and Emission Limitations

3. This unit is permitted for continuous operation (i.e 8,760 hours/year). [Operation permit renewal application dated 7/27/94 and previous operation permits]
4. This unit is permitted to burn coal, with the maximum fuel heat input rate not to exceed 1,876 MMBtu per hour of operation on a monthly average basis. This unit is also permitted to burn "on-specification"* used oil at a maximum firing rate of 48 gallons/minute. (*Note - See Specific Condition No. 15 for specification criteria) [Operation permit renewal application dated 07/27/94 and previous operation permits]
5. Sulfur dioxide emissions from this unit shall not exceed a rate of 2.4 pounds per million Btu's of heat input on a weekly average. In addition, the total sulfur dioxide emissions from Units 1 through 6 at the F. J. Gannon Station shall not exceed 10.6 tons per hour on a weekly average basis. [Rule 62-296.405(1)(c)2, a., F.A.C.]
6. Except as allowed for in Specific Condition Nos. 8 and 9 (excess emissions), particulate matter emissions from this unit shall not exceed 0.1 pounds per million Btu's of heat input. (Based upon the maximum permitted fuel heat input rates of Specific Condition No. 4, this corresponds to maximum allowable particulate emission rates of 187.6 pounds per hour.) [Rule 62-296.405(1)(b), F.A.C.]
7. Except as allowed for in Specific Condition Nos. 8 and 9 (excess emissions), visible emissions shall not exceed 20% opacity, except for one two-minute period per hour during which opacity shall not exceed 40%. [Rule 62-296.405(1)(a), F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

8. Excess emissions resulting from boiler cleaning (sootblowing) and load change (as defined in Rule 62-210.700(3), F.A.C.) shall be permitted up to the maximum levels shown below provided that the duration of such emissions does not exceed 3 hours in any 24 hour period:

- A. visible emissions during boiler cleaning (sootblowing) or load change shall not exceed 60% opacity, except for not more than four (4) six (6)-minute periods during which visible emission above 60% are allowed;
- B. particulate matter emissions during boiler cleaning (sootblowing) or load change shall not exceed 0.3 pounds per million Btu's. (Based upon the maximum permitted fuel heat input rates of Specific Condition No. 4, this corresponds to maximum allowable particulate emission rate of 562.8 pounds per hour).

The above excess emissions are allowed provided that best operational practices to minimize the magnitude and duration of excess emissions are adhered to.

[Rule 62-210.700(3), F.A.C.]

9. Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices to minimize the magnitude and duration of the excess emissions are adhered to. The duration of excess emissions resulting from malfunctions shall in no case exceed two (2) hours in any 24 hour period unless specifically authorized by the Department or by the Environmental Protection Commission of Hillsborough County. Excess emissions resulting from malfunctions shall be reported to the Air Management Division of the Environmental Protection Commission of Hillsborough County in accordance with the requirements of Rule 62-4.130, F.A.C. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited.

[Rules 62-210.700(1), (2), (4) and (6), F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

Compliance Testing Requirements

10. In order to document compliance with Specific Condition Nos. 6, 7 and 8, the permittee shall test the emissions from the steam generator Unit No. 4 exhaust stacks for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions annually within the 90 day period prior to the date of May 9 of each year. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

11. Compliance with the particulate matter limitation of Specific Condition Nos. 6 and 8 shall be determined using DER Methods 5, 5B, ~~5F or 17~~ (as appropriate) contained in Rule 62-297, F.A.C. The stationary point source stack sampling facilities shall meet the requirements of Rule 62-297.345(3), F.A.C. [Rule 62-297, and Table 62-297.330, F.A.C.]

12. The permittee shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rules 62-297.340(1)(i), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

13. Compliance tests shall be conducted while operating this unit at a high firing rate that is within 90-100% of the maximum permitted coal heat input rate of 1,876 MMBtu/hour, if feasible. If it is impracticable to test at 90-100% of the maximum permitted heat input rate, subsequent source operation is limited to 110% of the tested rate until a new test is conducted. If, once the unit is so limited, the unit is operated at a higher rate, then within 30 days of that higher rate being achieved an additional compliance test shall be conducted at the higher rate (or higher). The test results shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. In no case shall the maximum permitted heat input rate of 1,876 MMBtu/hour be exceeded. The permittee shall submit a statement of the fuel heat input rate as a part of any compliance test report.

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

14. Should the Department after investigation have good reason to believe that any of the emission standards in this permit are not being met, the Department may require that compliance with the emission standard be demonstrated by stack testing in accordance with Rule 62-297, F.A.C.

[Rule 62-297.340(2), F.A.C.]

"On-Specification" Used Oil Requirements

15. This unit is permitted to burn "on-specification" used oil. "On specification" used oil is defined as used oil that meets the 40 CFR Part 279 (Standards for the Management of Used Oil) specifications listed below (PCB reference added). Used oil that does not meet any of the following specifications is considered "off-specification" oil and shall not be burned unless the proper notification in accordance with 40 CFR Part 279 has been given.

CONSTITUENT/PROPERTY

ALLOWABLE LEVEL

| | |
|----------------|------------------|
| Arsenic | 5 ppm maximum |
| Cadmium | 2 ppm maximum |
| Chromium | 10 ppm maximum |
| Lead | 100 ppm maximum |
| Total Halogens | 1000 ppm maximum |
| Flash Point | 100 °F minimum |
| PCB's | less than 50 ppm |

[Rule 403.769(3)(b), Florida Statutes and 40 CFR 279.11]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

16. The permittee shall keep monthly records of the quantities of "on-specification" and "off-specification" used oil burned in this unit. The above records shall be maintained in a form suitable for inspection, retained for a minimum of a two year period, and made available upon request.

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

17. Gannon Station accepts and burns used oil for purposes of energy recovery in accordance with 40 CFR 279. Prior to receiving and/or burning any used oil the permittee shall insure that the oil has be characterized to meet specification parameters (see Specific Condition No. 15). Characterization may be based on current testing and/or generator knowledge as appropriate. Evidence of compliance shall be maintained, and provided upon request.

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

Sulfur Dioxide Compliance and Reporting Requirements

18. Compliance with the sulfur dioxide emission limitations of Specific Condition No. 5 shall be achieved and documented in part by adhering to the previously (1984) submitted Francis J. Gannon Sulfur Dioxide Compliance Plan. A quarterly report summarizing the information necessary to determine compliance with sulfur dioxide standards for this unit and the facility shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days following the end of each calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period.

[Rule 62-4.070(3), F.A.C. and previous operation permits]

Continuous Opacity Monitoring (COM) Requirements

19. The permittee shall operate, maintain, and calibrate a system for continuously monitoring and recording opacity. This continuous opacity monitoring (COM) system shall be installed and operated in accordance with the requirements of Rule 62-297.500(1), F.A.C.

[Rule 62-297.500(1)(a)1., F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

20. The permittee shall submit quarterly reports detailing excess opacity emissions as measured by the COM system. The reports shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 30 days following the end of each calendar quarter. For purposes of this report excess emissions shall be defined as all six-minute average periods of opacity greater than 20%, except for two (2) minutes up to 40% allowed in a 60 minute period. Periods subject to the exemptions of Specific Condition No. 8 or 9 shall be identified as to their cause and the applicable exemption. The information supplied in this report (including periods in which the COM system was inoperative) shall be consistent with the reporting requirements of 40 CFR 51 Appendix P, Section 4.0.
[Rule 62-297.500(2), F.A.C. and previous operation permit]

Reporting Requirements

21. The permittee shall submit to the Air Program of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County each calendar year on or before March 1, a completed DER Form 62-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility" for the preceding calendar year. A statement of the total quantity of used oil burned in Unit No. 4 during the calendar year being reported shall be included with the annual report along with a summary of the results of the "on-specification" analysis results (showing worst case for each parameter).
[Rule 62-210.370(2), F.A.C.]

22. Excess emissions resulting from malfunctions shall be reported to the Air Management Division of the Environmental Protection Commission of Hillsborough County in accordance with the requirements of Rule 62-4.130, F.A.C. The Department or the Environmental Protection Commission of Hillsborough County may request that written reports of malfunctions be submitted on a quarterly basis.
[Rule 62-210.700(6), F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

Operation and Maintenance Plan

23. In accordance with the Requirements of Rule 62-297.700(6) (PM RACT O&M Plan), F.A.C., the following Operation and Maintenance Plan is specified for this source.

A. Process Parameters

1. Fuel: Low sulfur coal, ignition oil or used oil
2. Maximum Fuel Firing Rate:
 - Coal - 80 tons/hr (1,876 MMBtu/hour)
 - Ignition oil - 18 gallons/minute
 - Used oil - 48 gallons/minute
3. Maximum Design Steam Capacity: 1.26×10^6 pounds/hour
4. Nameplate Power Output Rating: 187.5 MW
5. Operating Steam Pressure: 1890 psi
6. Operating Steam Temperature: 1000°F

B. Particulate Control Equipment

1. Control Equipment Designation: electrostatic precipitator
2. Control Equipment Manufacturer: Combustion Engineering, Inc.
3. Design Air Flow Rate: 631,000 acfm
4. Primary ESP Voltage: 460 volts
5. Primary ESP Current: 172 amps
6. Secondary ESP Voltage: 56.6 kilovolts
7. Secondary ESP Current: 1000 milliamps
8. ESP Design Efficiency: 99.05%
9. ESP Pressure Drop: 1.58 inches of H₂O (average)
10. ESP Rapper Frequency: 1/1.5 - 1/3.5 minutes (average)
11. Rapper Duration: Impact
12. Gas Temperature: $250 \pm 55^\circ\text{F}$ (average)

- C. The following observations, checks, and actions apply to this source and shall be conducted on the schedule specified below:

Continuously Monitored and Recorded:

Visible emissions (continuous opacity monitor (COM))
Steam pressure, temperature and flow

Continuously Monitored:

Precipitator Trouble Alarm

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

23. O&M Plan (continued)

Daily Recorded and Inspected
ESP Performance Parameters (primary and secondary voltage and current)
Inspect system controls and make adjustments as needed

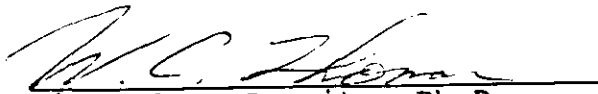
Monthly Recorded or Inspections/Maintenance
Fuel Input (recorded)
Electrostatic Precipitator preventative maintenance:
- Inspection of insulator compartment heaters/blowers, service as needed
- Observation of all rapper and transformer/rectifier controls, service as needed

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Environmental Protection Commission of Hillsborough County upon request.
[Rule 62-296.700(6), F.A.C.]

Permits

24. At least two applications to renew this operating permit shall be submitted to the Air Program of the Southwest District Office of the Department, with a copy to the Air Management Division of the Environmental Protection Commission of Hillsborough County, no later than July 18, 1999 (60 days prior to the expiration date of this permit). A Title V application submitted prior to the above date shall negate this requirement.
[Rule 62-4.090(1), F.A.C.]

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION


For Richard D. Garrity, Ph.D.
Director of District Management
Southwest District



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-160269
County: Hillsborough
Expiration Date: 09/30/94
Project: F.J. Gannon Station
Unit No. 4

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station 1876 MMBTU/hr. coal fired steam generator designated as Unit No. 4. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclone firing type. The generator has a nameplate capacity of 187.5 MW. Particulate emissions are controlled by a Combustion Engineering, Inc. Electrostatic Precipitator. Two exhaust stacks are utilized to vent emissions from this source.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 04 East Stack
19 West Stack

Replaces Permit No.: AO29-80043

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160269
PROJECT: F.J. Gannon Station
Unit No. 4

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum allowable particulate emission rate for this source shall be 0.1 pounds per MMBTU heat input over a two hour average [Section 17-2.650(2)(c)2.b.(i), F.A.C.], except for any 3 hours during a 24 hour period in which the boiler is being cleaned by soot blowing or experiencing a load change. Under these operating conditions, the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.].
3. The maximum opacity from this source shall be 20 percent [Section 17-2.650(2)(c)2.b.(ii), F.A.C.] except for: Any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent [Section 17-2.600(5), F.A.C.]; and 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by soot blowing or experiencing a load change the opacity shall not exceed 60%; allowing four six minute periods during the 3 hour period of unlimited opacity, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.]; and any excess emissions otherwise allowed under Section 17-2.650(1), (2), and (3), F.A.C.
4. The maximum allowable SO₂ emission rate from this unit shall be 2.4 pounds of SO₂ per MMBTU² heat input on a weekly average. In addition, Units 1 through 6 at the F.J. Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].
5. This unit shall be stack tested for particulate matter (under both soot blowing and non-soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of May 9, 1989 or within a ninety (90) day period prior to this date. The Method 9 test period on this source shall be sixty (60) minutes. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160269
PROJECT: F.J. Gannon Station
Unit No. 4

SPECIFIC CONDITIONS: (continued)

6. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45² days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.

7. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent, except as specified in Specific Condition No. 2. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Section 17-2.710(1), F.A.C.].

8. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes:

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

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

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

A. Process System Performance Parameters:

- 1. Source Designators: F.J. Gannon Unit No. 4
- 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
80 tons coal/hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160269
PROJECT: F.J. Gannon Station
Unit No. 4

SPECIFIC CONDITIONS: (continued)

3. Operating Pressure: 1890 p.s.i.
4. Operating Temperature: 1000 degrees Fahrenheit
5. Maximum Design Steam Capacity: 1,260,000 pounds per hour

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion
Engineering, Inc.
3. Design Flow Rate: 631,000 ACFM
4. Primary voltage: 460 volts
5. Primary Current: 172 amps.
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1000 milliamps.
8. Design Efficiency: 99.05%
9. Pressure Drop: 1.58 inches of H₂O (avg.)
10. Rapper Frequency: 1/1.5 min. - 1/3.5 min. (avg.)
11. Rapper Duration: Impact
12. Gas Temperature: 250± 55 degrees Fahrenheit (avg.)

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded:

Visible Emissions
Steam Pressure
Steam Temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers.
Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160269
PROJECT: F.J. Gannon Station
Unit No. 4

SPECIFIC CONDITIONS: (continued)

D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Environmental Protection Commission of Hillsborough County upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

10. A continuous emission monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Section 17-2.710(1), F.A.C.

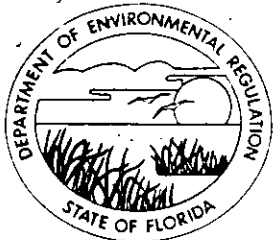
11. An original application to renew this operating permit and three copies with notarized signature shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 5 day of Oct.
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Deputy Assistant Secretary



Unit 5
Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

RECEIVED

JAN 13 1992

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION P.C. OF H.C.
NOTICE OF PERMIT ISSUANCE AIR PROGRAM

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-203511
County: Hillsborough

Enclosed is Permit Number A029-203511 to operate the Gannon Station Unit No. 5 steam generator designated as Unit No. 5, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;



(f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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 the Final Order is filed with the Clerk of the Department.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,

J. Harry Kerns
J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

Attachment:

cc: / Environmental Protection Commission
of Hillsborough County

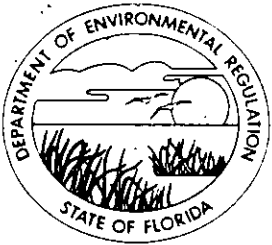
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on JAN 13 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Harilyn Quispe
Clerk

JAN 13 1992
Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION
Permit No: AO29-203511
County: Hillsborough
Expiration Date: 01/01/97
Project: Gannon Station Unit
No. 5

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code 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 of hereof and specifically described as follows:

For the operation of a 2284 MMBTU/hr. coal fired steam generator designated as Unit No. 5. This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is of the opposed firing type. The generator has a nameplate capacity of 239.4 MW. Particulate emissions are controlled by two Research Cottrell, Inc. electrostatic precipitators operating in series.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 05

Replaces Permit No.: AO29-125993

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.

2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]

3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.]

4. The maximum allowable SO₂ emission rate from Unit No. 5 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

5. Excess Emissions:

A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]

B. Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]

C. Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

- D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

6. Unit No. 5 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of April 15, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

7. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 2284 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 2284 MMBtu/hr. The actual heat input rate shall be specified in each test.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

A. Process System Performance Parameters:

- 1. Source Designators: Gannon Unit No. 5
- 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
93.4 tons coal/hour
- 3. Operating Pressure: 2,250 psi
- 4. Operating Temperature: 1000° F.
- 5. Maximum Design Steam Capacity: 1,660,000 pounds per hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: 2 Electrostatic Precipitators
2. Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
3. Model Numbers: G.O. 3129; G.O. 2791
4. Design Flow Rates: 820,000 ACFM; 700,000 ACFM
5. Primary Voltage: 400 volts; 400 volts
6. Primary Current: 240 amps; 195 amps
7. Secondary Voltage: 53.5 kilovolts; 64.5 kilovolts
8. Secondary Current: 1,500 milliamps; 1,000 milliamps
9. Design Efficiency: 99.78%; 98.5%
10. Pressure Drop: 0.5 in. H₂O (avg); 0.5 in. H₂O (avg)
11. Static Pressure: +15 in. H₂O (avg); +15 in. H₂O (avg)
12. Rapper Frequency: 1/2.0 min. (avg); 1/2.0 min. (avg)
13. Rapper Duration: Impact
14. Gas Temperature: 293° F. (avg); 289° F. (avg)

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Opacity
Steam pressure
Steam temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
Observe operation of all rapper and transformer/rectifier controls.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

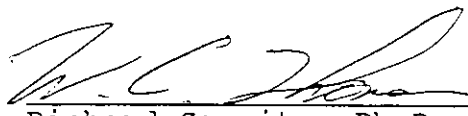
- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitators and the ductwork for gas leaks at least once a month. Note any problems and action taken.

13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

15. An original application to renew this operating permit and three (3) 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. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


For Richard Garrity, Ph.D.
Director of District Management

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33637-9544

813-985-7402
SunCom - 542-8000

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No.: AO29-125993
County: Hillsborough
Issuance Date: 1-6-87
Amended Date: 3-26-87
Expiration Date: 1-2-92
Project: Cannon Station
Unit No. 5.

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 2284 MMBTU/hr coal fired steam generator designated as Unit No. 5. This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is of the opposed firing type. The generator has a nameplate capacity of 239.4 MW. Particulate emissions are controlled by two Research Cottrell, Inc. Electrostatic Precipitators operating in parallel.

Location: Port Sutton Rd., Tampa

UTM: 17-360.1E 3087.5N NEDS NO: 0040 Point ID: 05

Replaces Permit No.: AO29-47728

DER Form 17-1.201(5) Page 1 of 8.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125993
Project: Gannon Station
Unit No. 5.

14. (con't)

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. The maximum allowable particulate emission rate from this source shall be 0.1 pounds per MMBTU heat input over a two hour average [Section 17-2.650(2)(c)2.b.(i), F.A.C.], except for any 3 hours during a 24 hour period in which the boiler is being cleaned by soot blowing or experiencing a load change. Under these operating conditions, the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.].

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125993
Project: Gannon Station
Unit No. 5.

2. The maximum opacity from this source shall be 20 percent [Section 17-2.650(2)(c)2.b.(ii), F.A.C.] except for: any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent [Section 17-2.600(5), F.A.C.]; any 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by soot blowing or experiencing a load change the opacity shall not exceed 60%; and excess emissions otherwise allowed under Section 17-2.250(1) through (3), F.A.C.

3. The maximum allowable SO₂ emission rate from this unit shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].

4. This unit shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of April 15, 1986 or within a ninety (90) day period prior to this date. The method 9 test period on this source shall be sixty (60) minutes. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. A copy of test data shall be submitted to the Air Section of the Hillsborough County Environmental Protection Commission and a copy to the Southwest District Office of the Department of Environmental Regulation, within 45 days of such testing.

5. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Hillsborough County Environmental Protection Commission and the Department of Environmental Regulation shall each receive a copy of this report.

6. A report shall be submitted to both the Florida Department of Environmental Regulation and Hillsborough County Environmental Protection Commission within 30 days following each calendar quarter detailing any excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent, except as specified in Specific Condition No. 2.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-125993
Project: Gannon Station
Unit No. 5.

The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Section 17-2.710(1), F.A.C.].

7. Submit for this facility, each calendar year, on or before 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 fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

A copy of the report shall be submitted to the Southwest District Office of the Department of Environmental Regulation and a copy to the Hillsborough County Environmental Protection Commission.

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

A. Process System Performance Parameters:

- (1) Source Designator: Gannon Unit No. 5
- (2) Design Fuel Consumption Rate at Maximum Continuous Rating: 33.4 tons coal/hour
- (3) Operating Pressure: 2250 psi.
- (4) Operating Temperature: 1000° F
- (5) Maximum Design Steam Capacity: 1,660,000 pounds per hour

B. Particulate Control Equipment Data:

- (1) Control Equipment Designator: 2 Electrostatic Precipitators
- (2) Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
- (3) Model Numbers: G.O. 3129 G.O. 2791
- (4) Design Flow Rates: 820,000 ACFM 700,000 ACFM
- (5) Primary Voltage: 430-480 volts 430-460 volts
- (6) Primary Current: 241 amps 152 amps
- (7) Secondary Voltage: 53.5 kilovolts 53.5 kilovolts
- (8) Secondary Current: 1500 milliamps 1000 milliamps
- (9) Design Efficiency: 99.78% 98.5%
- (10) Pressure Drop: 0.5 in. H₂O(ave) 0.5 in. H₂O(ave)
- (11) Static Pressure: +15 in. H₂O(ave) +15 in. H₂O(ave)
- (12) Rapper Frequency: 1/2.0 min.(ave) 1/2.0 min.(ave)
- (13) Rapper Duration: Impact Impact
- (14) Gas Temperature: 293° F (ave) 289° F (ave)

PERMITTEE:
Tampa Electric Company

Permit No. AO29-125993
Project: Cannon Station
Unit No. 5.

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions
Steam Pressure
Steam Temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
Observe operation of all rapper and transformer/rectifier controls.

- D. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Hillsborough County Environmental Protection Commission upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

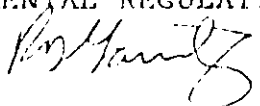
9. A continuous emission monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Section 17-2.710(1), F.A.C.

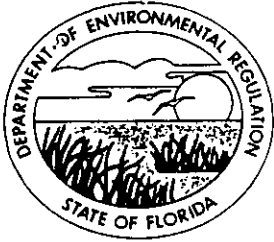
10. An original application to renew this operating permit and three (3) copies, with original seals and signatures, shall be submitted to the Hillsborough County Environmental Protection Commission at least 60 days prior to the expiration date of this permit.

Issued: 1-6-87

Amended this 26 day of March
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard

Lawton Chiles, Governor

813-620-6100

Unit 6
Tampa, Florida 33610-7347
Carol M. Browner, Secretary

FEB 24 1999

E.P.C. OF H.C.
AIR PROGRAM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-203512
County: Hillsborough

Enclosed is Permit Number A029-203512 to operate the Gannon Station Unit No. 6 steam generator designated as Unit No. 6, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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 position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

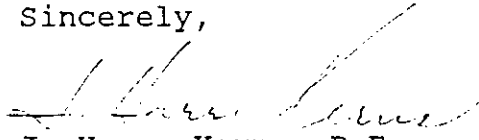
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of 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 the Final Order is filed with the Clerk of the Department.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,



J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

Attachment:

cc: / Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on FEB 21 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

FEB 21 1992
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A029-203512
County: Hillsborough
Expiration Date: 02/15/97
Project: Gannon Station Unit
No. 6

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code 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 of hereof and specifically described as follows:

For the operation of a 3798 MMBTU/hr. coal fired steam generator designated as Unit No. 6. This wet bottom boiler was manufactured by Riley Stoker Corporation and is of the opposed firing type. The generator has a nameplate capacity of 414 MW. Particulate emissions are controlled by a Research Cottrell, Inc. electrostatic precipitator, Model G.O. 3118.

Location: Port Sutton Road, Tampa

UTM: 17-360.0 E 3087.5 N NEDS NO: 0040 Point ID: 06

Replaces Permit No.: A029-125992

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]
3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.] -
4. The maximum allowable SO₂ emission rate from Unit No. 6 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]
5. Excess Emissions:
 - A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]
 - B. Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition.
Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
 - C. Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

- D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

6. Unit No. 6 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of June 19, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed up to 5 days later. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

7. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 3798 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 3798 MMBtu/hr. The actual heat input rate shall be specified in each test.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

A. Process System Performance Parameters:

- 1. Source Designator: Gannon Unit No. 6
- 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
151.4 tons coal/hour
- 3. Operating Pressure: 2,600 psi
- 4. Operating Temperature: 1000° F.
- 5. Maximum Design Steam Capacity: 2,700,000 pounds per hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
3. Model Number: G.O. 3118
4. Design Flow Rate: 1,350,000 ACFM
5. Primary Voltage: 430-480 volts
6. Primary Current: 241 amps
7. Secondary Voltage: 53.5 kilovolts
8. Secondary Current: 1,500 milliamps
9. Design Efficiency: 98.5%
10. Pressure Drop: 0.5 inches of H₂O (avg)
11. Static Pressure: +15 inches of H₂O (avg)
12. Rapper Frequency: 1/2.0 minutes (avg)
13. Rapper Duration: Impact
14. Gas Temperature: 293° F. (avg)

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Opacity
Steam pressure
Steam temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
Observe operation of all rapper and transformer/rectifier controls.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

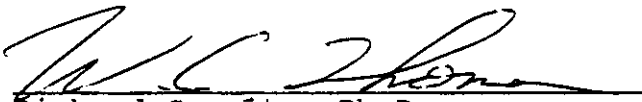
- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitator and the ductwork for gas leaks at least once a month. Note any problems and action taken.

13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

15. An original application to renew this operating permit and three (3) 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. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

For 
Richard Garrity, Ph.D.
Director of District Management

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33637-9544

813-985-7402
SunCom - 542-8000

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GANLEY
DISTRICT MANAGER

PERMITTEE:

Mr. A. Spencer Autry, Manager
Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-011

PERMIT/CERTIFICATION

Permit No.: A029-125992
County: Hillsborough
Issuance Date: 1-6-87
Amended Date: 3-26-87
Expiration Date: 1-2-92
Project: Cannon Station
Unit No. 6.

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 3798 MMBTU/hr coal fired steam generator designated as Unit No. 6. This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is of the opposed firing type. The generator has a nameplate capacity of 414 MW. Particulate emissions are controlled by a Research Cottrell, Inc. Electrostatic Precipitator.

Location: Port Sutton Rd., Tampa

UTM: 17-360.1W 3087.5N NEDS NO: 0040 Point ID: 06

Replaces Permit No.: A029-47727

DER Form, 17-1.201(5) Page 1 of 8.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-125992
Project: Gannon Station
Unit No. 6.

14. (con't)

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. The maximum allowable particulate emission rate from this source shall be 0.1 pounds per MMBTU heat input over a two hour average [Section 17-2.650(2)(c)2.b.(i), F.A.C.], except for any 3 hours during a 24 hour period in which the boiler is being cleaned by soot blowing or experiencing a load change. Under these operating conditions, the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input, providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized [Section 17-2.250(3), F.A.C.].

PERMITTEE:
Tampa Electric Company

Permit No.: A029-125992
Project: Gannon Station
Unit No. 6.

2. The maximum opacity from this source shall be 20 percent [Section 17-2.650(2)(c)2.b.(ii), F.A.C.] except for: any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent [Section 17-2.600(5), F.A.C.]; any 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by soot blowing or experiencing a load change the opacity shall not exceed 60%; and excess emissions otherwise allowed under Section 17-2.250(1) through (3), F.A.C.

3. The maximum allowable SO₂ emission rate from this unit shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Cannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].

4. This unit shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of June 19, 1986 or within ninety (90) days prior to this date. The Method 9 test period on this source shall be sixty (60) minutes. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. A copy of test data shall be submitted to the Air Section of the Hillsborough County Environmental Protection Commission and a copy to the Southwest District Office of the Department of Environmental Regulation, within 45 days of such testing.

5. Compliance with the SO₂ emission standards set for the Cannon Station shall be achieved in part by adhering to the Francis J. Cannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Hillsborough County Environmental Protection Commission and the Department of Environmental Regulation shall each receive a copy of this report.

6. A report shall be submitted to both the Florida Department of Environmental Regulation and Hillsborough County Environmental Protection Commission within 30 days following each calendar quarter detailing any excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent, except as specified in Specific Condition No. 2.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-125992
Project: Gannon Station
Unit No. 6.

The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Section 17-2.710(1), F.A.C.].

7. Submit for this facility, each calendar year, on or before 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 fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

A copy of the report shall be submitted to the Southwest District Office of the Department of Environmental Regulation and a copy to the Hillsborough County Environmental Protection Commission.

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

A. Process System Performance Parameters:

- (1) Source Designator: Gannon Unit No. 6
- (2) Design Fuel Consumption Rate at Maximum Continuous Rating: 151.4 tons coal/hour
- (3) Operating Pressure: 2600 psi
- (4) Operating Temperature: 1000° F
- (5) Maximum Design Steam Capacity: 2,700,000 pounds per hour

B. Particulate Control Equipment Data:

- (1) Control Equipment Designator: Electrostatic Precipitator
- (2) Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
- (3) Model Numbers: G.O. 3118
- (4) Design Flow Rates: 1,350,000 ACFM
- (5) Primary Voltage: 430-480 volts
- (6) Primary Current: 241 amps
- (7) Secondary Voltage: 53.5 kilovolts
- (8) Secondary Current: 1500 milliamps
- (9) Design Efficiency: 98.5%
- (10) Pressure Drop: 0.5 inches of H₂O(ave)
- (11) Static Pressure: +15 inches of H₂O(ave)
- (12) Rapper Frequency: 1/2.0 minutes(ave)
- (13) Rapper Duration: Impact
- (14) Gas Temperature: 290° F (ave)

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-125992
Project: Gannon Station
Unit No. 6.

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions
Steam Pressure
Steam Temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
Observe operation of all rapper and transformer/rectifier controls.

- D. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Hillsborough County Environmental Protection Commission upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

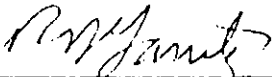
9. A continuous emission monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Section 17-2.710(1), F.A.C.

10. An original application to renew this operating permit and three (3) copies, with original seals and signatures, shall be submitted to the Hillsborough County Environmental Protection Commission at least 60 days prior to the expiration date of this permit.

Issued: 1-6-87

Amended this 26 day of March
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager



Department of Environmental Protection

Unit 7

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

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

PERMIT/PROJECT:

Permit No: A029-252615
County: Hillsborough
Expiration Date: 08/31/99
Project: Combustion Turbine
(F.J. Gannon Station)

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-200 through 297, and Chapter 62-4. 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 the F.J. Gannon Station self-contained combustion turbine generating unit with a power output rating of 14 MW. This unit is an integrated simple cycle, single shaft, three bearing machine with the load connected at the exhaust end of the unit. The turbine is fired with virgin No. 2 fuel oil, with a maximum sulfur content of 0.5% by weight, at a maximum fuel firing rate of 1,885 gallons/hour (corresponds to a heat input rate of approximately 256.5 MMBtu/hour).

Location: F.J. Gannon Station, Port Sutton Road, Tampa

UTM: 17-360.0 E 3087.5 N **NEDS No:** 0040 **Point ID No:** 07

Replaces Permit No.: A029-160272

(Additional Permitting Note: This source was never covered by a construction permit. This first permit issued for this source was an operation permit (A029-19057 issued on June 28, 1979.)

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : A029-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

1. A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-297, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

Operation and Emission Limitations

3. This unit is permitted for continuous operation (i.e. 8,760 hours/year). [Permit renewal application dated 06/15/94 and previous permits]
4. The combustion turbine shall be fired only with the following fuel:

| <u>Permitted Fuel</u> | <u>Max. Sulfur Content</u> | <u>Max. Fuel Firing Rate</u> |
|-----------------------|----------------------------|--|
| Virgin No. 2 Oil | 0.5% by weight | 1,885 gallons/hour (approx. 256.5 MMBtu/hr) |

No used or recycled oil shall be fired in this unit. [Permit renewal application dated 06/15/94 and previous permits]

5. Visible emissions from the combustion turbine shall not be equal to or greater than 5% opacity. [Rule 62-296.712(2), F.A.C. and previous permits]
6. Particulate matter emissions shall not exceed 0.03 grains/dscf. Based upon a design flow rate of 475,000 dscf/minute, this corresponds to a maximum emission rate of 122.1 pounds/hour. [Rule 62-296.712(2), F.A.C. and previous permits]

Testing and Compliance Documentation Requirements

7. In order to document compliance with the visible emissions and particulate matter limitations of Specific Condition Nos. 5 and 6, the combustion turbine exhaust stack shall be tested for visible emissions annually on or during the 60 day period prior to the date of March 15 of each year (however, see Specific Condition No. 8). A report of the test data shall be submitted to the Air Compliance Sections of the Southwest District Office of the Department and the Environmental Protection Commission of Hillsborough County within 45 days of the testing. [Rules 62-297.340 and 62-297.570, F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : A029-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

8. The annual visible emission test requirement of Specific Condition No. 7 shall be waived on a year by year basis if the operating hours for the previous calendar year were less than 400 hours/year. The annual operating report (Specific Condition No. 17), which will show annual operating hours, shall be considered as notification and documentation that this source qualifies for this waiver. Regardless of annual operating hours this source shall be tested for visible emission during the 12 month period prior to submitting an application for an operation permit renewal.

[Rule 62-297.340(1)(h), F.A.C.]

9. Compliance with the visible emission limitation of Specific Condition No. 5 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 62-297, F.A.C. ~~The visible emissions test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration. The test observation period shall include the period during which the highest opacity can reasonably be expected to occur. The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 62-297, F.A.C. and 40 CFR 60, Appendix A.~~

[Rule 62-297.330(1)(b), and Table 297.330-1, F.A.C.]

10. The permittee shall notify the Air Compliance Section of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.

[Rules 62-297.340(1)(i), F.A.C.]

11. Visible emissions testing shall be conducted while firing No. 2 fuel oil at a rate within 90-100% of the maximum permitted fuel firing rate of 1,885 gallons per hour (corresponds to a heat input rate of approximately 256.5 MMBtu/hour), if feasible. A compliance test submitted at a rate less than 90% of the maximum permitted rate will automatically constitute an amended permitted fuel firing rate at that lesser rate plus 10%. Within 30 days of that lower amended permitted rate being exceeded by more than 10%, a new compliance test shall be conducted at the higher rate. The test results shall be submitted to the Air Compliance Sections of the Southwest District Office of the Department and the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher tested rate, but in no case shall the maximum permitted No. 2 fuel oil firing rate of 1,885 gallons per hour be exceeded.

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

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : A029-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

12. A statement of the gas turbine No. 2 fuel oil firing rate (gallons/hour) and corresponding heat input rate (MMBtu/hour) during the test period shall be included with each test report. Failure to submit this information with the test report may fail to provide reasonable assurance of compliance. [Rule 62-4.070(3), F.A.C.]

13. Proof of compliance with the fuel oil sulfur content limitation of Specific Condition No. 4 shall be submitted with all required visible emissions compliance test reports. This documentation may take the form of results of a fuel analysis done in accordance with an appropriate ASTM method, or by fuel supplier documentation that the fuel oil delivered for use in the gas turbine met the specifications for No. 2 fuel oil. (See Specific Condition No. 14). [Rule 62-4.070(3), F.A.C.]

14. Documentation of compliance with the 5% visible emissions limitation will be accepted as demonstration of compliance with the particulate emission limitation in lieu of particulate matter emissions stack testing. However, should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standard be demonstrated by stack testing in accordance with Rule 62-297, F.A.C. [Rule 62-297.620(4), F.A.C.]

Recordkeeping Requirements

15. In order to document continuing compliance with Specific Condition No. 4, records shall be maintained of the sulfur content, in % by weight, of No. 2 fuel oil delivered for use in this combustion turbine. On the basis of the requirements of Department of Agriculture and Consumer Services Rule 5F-2001 (which requires that No. 2 oil sold in Florida have a maximum sulfur content not to exceed 0.5%), reasonable assurance that the sulfur content requirement is being met can also be provided through vendor supplied documentation that the fuel oil delivered for use in the gas turbine meets the above specifications for No. 2 fuel oil. These records shall be recorded in a permanent form suitable for inspection by the Department and the Environmental Protection Commission of Hillsborough County upon request, and shall be retained for at least a two year period. [Rule 62-4.070(3), F.A.C.]

16. In order to document compliance with Specific Condition Nos. 8 and 17, the permittee shall maintain a record of the combustion turbine operating hours. These records shall be recorded in a permanent form suitable for inspection by the Department and the Environmental Protection Commission of Hillsborough County upon request, and shall be retained for at least a two year period. [Rule 62-4.070(3), F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : AO29-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

Operation and Maintenance Plan

17. In accordance with the Requirements of Rule 62-297.700(6) (PM RACT O&M Plan), F.A.C., the following Operation and Maintenance Plan is specified for this source.

A. Process Parameters

1. Fuel: Distillate No. 2 Fuel Oil
2. Maximum Fuel Firing Rate: 44.88 Barrels/hr (1885 gal/hr)
3. Power Output Rating: 14 MW
4. The combustion turbine is equipped with alarms on all of the critical operating components.
5. Fuel flow is to be measured by a flow integrator.

B. Operation and Maintenance Plan

1. The preventative maintenance plan requires that an operator do the following each time that the combustion turbine is started:
 - a. Inspect the unit for oil and fuel leaks;
 - b. Check the cooling water level;
 - c. Check the exhaust stack for excess emissions.
2. The preventative maintenance (PM) plan requires that at least each quarter a mechanic complete a PM checklist for the following combustion turbine systems:
 - a. Cooling water system
 - b. Accessory gear compartment
 - c. Gas turbine
 - d. Reduction gear compartment
 - e. Generator tail end compartment
 - f. Air cooling inlet compartment
 - g. Fuel forwarding house
 - h. Gas turbine control cabinet
 - i. Gas turbine roof
3. The preventative maintenance plan requires that semi-annually preventative maintenance activities shall be conducted specifically on the electrical systems and the diesel starting engine. Any problems that are detected in the combustion turbine equipment are either fixed immediately or a maintenance job request is initiated.

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : AO29-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

C. Records

Records shall be kept of all combustion turbine inspections, checks and maintenance. Combustion turbine operating parameters shall be recorded at least once per month during months when the equipment is on line. The above records shall be maintained in a form suitable for inspection, retained for a minimum of two years, and made available to the Department and the Environmental Protection Commission of Hillsborough County upon request.

[Rule 62-296.700(6), F.A.C.]

Reporting Requirements

18. The permittee shall submit to the Air Programs of the Southwest District Office of the Department and the Environmental Protection Commission of Hillsborough County each calendar year on or before March 1, completed DEP Form 62-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year.

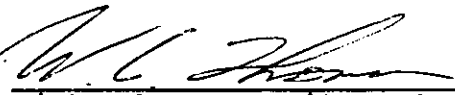
[Rule 62-210.370(2), F.A.C.]

Permits

19. At least two applications to renew this operating permit shall be submitted to the Air Program of the Southwest District Office of the Department, with a copy to the Environmental Protection Commission of Hillsborough County, no later than June 20, 1999 (60 days prior to the expiration date of this permit). A Title V application submitted prior to July 1, 1999 shall negate this requirement.

[Rule 62-4.090(1), F.A.C.]

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION


For Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

3c

Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

Assistant Secretary
Deputy Assistant Secretary
RECEIVED

September 20, 1989

SEP 20 1989

NOTICE OF PERMIT

E.P.C. OF H.C.
AIR PROGRAM

Mr. Jerry Williams
Director - Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

Dear Mr. Williams:

RE: Hillsborough County - AP
F.J. Gannon Station
Combustion Turbine

Enclosed is Permit Number A029-160272 for the operation of the F.J. Gannon Station Combustion Turbine, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

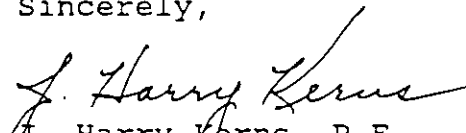
Tampa Electric Company
Tampa, FL 33601

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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, 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/AJW/bb

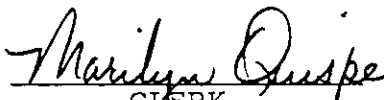
Attachment:

cc: Environmental Protection Commission
of Hillsborough County

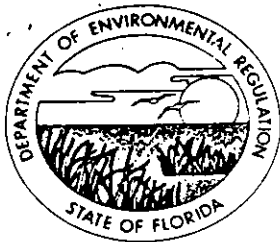
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on SEP 20 1989 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.


CLERK

SEP 20 1989
DATE



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-160272
County: Hillsborough
Expiration Date: 08/15/94
Project: F.J. Gannon Station
Combustion Turbine

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station self-contained combustion turbine generating unit. The unit is a predesigned integrated simple cycle, single shaft, three-bearing machine with load connected at the exhaust end of the unit. The turbine is fired on No. 2 fuel oil. This unit is rated at 14 MW.

Location: Port Sutton Road, Tampa

UTM: 17-360.0 E 3087.5 N NEDS NO: 0040 Point ID: 07

Replaces Permit No.: AO29-85099

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160272
PROJECT: F.J. Gannon Station
Combustion Turbine

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Pursuant to Subsection 17-2.650(2)(c)12.b., F.A.C. the maximum allowable emissions for this turbine based on a design flow of 475,000 dscfm shall not exceed:

| <u>Pollutant</u> | <u>Emission Limitation</u> |
|--------------------|---|
| Particulate Matter | 0.03 grains/dscf |
| Visible Emissions | None (visible emissions less than or equal to 5% opacity) |

= 122.1 #/hr

3. Test the emissions for the following pollutant(s) at intervals of 12 months from March 15, 1989 or within a ninety (90) day period prior to this date and submit one copy of the test data to both the Air Section of the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within 45 days of such testing. Testing procedures shall be consistent with the requirements of 40 CFR 60 and Section 17-2.700, F.A.C.:

- | | |
|---|---|
| <input type="checkbox"/> Lead | <input type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Particulate Matter | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity | <input type="checkbox"/> Hydrocarbons |
| | <input type="checkbox"/> Total Reduced Sulfur |

- 4. This source may operate continuously up to 8760 hours per year.
- 5. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method 9 test interval on this source shall be for thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.
- 6. Testing of emissions must be accomplished within ± 10% of the unit rated power output. The actual fuel consumption rate and the power output of the unit shall be specified in each test result. Failure to include the actual power output of the unit and fuel consumption in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].
- 7. The Environmental Protection Commission of Hillsborough County shall be notified 15 days prior to compliance testing.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160272
PROJECT: F.J. Gannon Station
Combustion Turbine

SPECIFIC CONDITIONS: (continued)

8. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes:

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

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

9. This unit must be fired on No. 2 fuel oil

10. Should annual hours of operation be less than 400 hours per calendar year, the visible emissions compliance test could be waived on a year by year basis pursuant to Subsection 17-2.700(2)(a)8., F.A.C. The annual operating report will serve as the notification to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation to request the compliance test be waived.

11. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing using EPA Method 5.

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

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

A. Process Parameters:

- 1. Fuel: Distillate Fuel Oil #2
- 2. Average consumption rate: 25.48 BBLS/hr.
- 3. Maximum consumption rate: 44.88 BBLS/hr.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160272
PROJECT: F.J. Gannon Station
Combustion Turbine

SPECIFIC CONDITIONS: (continued)

4. Power Output: 14 MW
5. The combustion turbine is equipped with alarms on all of the critical operating components.
6. Fuel flow is to be measured by a flow integrater.

B. Operation and Maintenance Plan:

1. The preventive maintenance plan requires that a mechanic each month check:
 - a. condition of inlet air filters
 - b. tightness of louver arm
 - c. oil and fuel leaks
 - d. belts for condition and tension
 - e. air compressor fan condition
 - f. the CO₂ fire protection system
 - g. to insure that the batteries are properly charged
 - h. lube oil flow and level
 - i. cooling water level
 - j. radiator fins for damage or blockage
 - k. motors and brushes
 - l. oil and fuel pumps
 - m. lube oil filter pressure differential
 - n. compartment heaters
 - o. lubricate fan bearings
 - p. clean water pump strainer
2. The preventive maintenance plan requires a mechanic semi-annual check:
 - a. change oil in gear reducer and in diesel engine crankcase
 - b. lubricate pump seal with grease
 - c. remove and clean fuel oil line strainers
 - d. change oil, fuel, and air filters
 - e. clean or replace water filter
 - f. clean crankcase breather
 - g. check water level alarm
3. Each time the combustion turbine is started, the operator shall inspect the unit for oil and fuel leaks, and check the cooling water level. The operator shall also check the exhaust stack for excess emissions.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160272
PROJECT: F.J. Gannon Station
Combustion Turbine

SPECIFIC CONDITIONS: (continued)

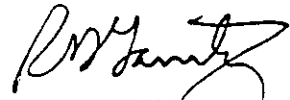
C. Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Environmental Protection Commission of Hillsborough County upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

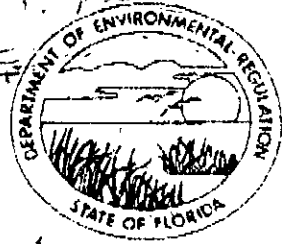
14. An original application with notarized signature to renew this operating permit and three copies shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 19 day of Sept.
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Deputy Assistant Secretary



Florida Department of Environmental Regulation

Southwest District
Lawton Chiles, Governor

3804 Coconut Palm
813-734-6100

Tampa, Florida 33619
Virginia B. Wetherell, Secretary

Unit 8 INFO

4/23/93

PERMITTEE:

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

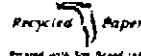
PERMIT/CERTIFICATION

Permit No: AO29-216480
County: Hillsborough
Expiration Date: 09/12/97
Project: Gannon Station Coal
Yard

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-209, 17-210, 17-212, 17-272, 17-275, 17-296, 17-297, 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 of hereof and specifically described as follows:

For the operation of a bituminous coal yard (yard) serving the Gannon Station boiler units 1 through 6. Yard activities includes barge (East and West) and railcar unloading of coal, truck unloading of limestone or iron ore, and transfer and storage of these materials. The iron ore is shipped, stored and handled in the same manner as limestone. Particulate control media and other yard activity parameters are listed below:

| Source Designator | Particulate Control Method | Efficiency Rating at Design Capacity | Maximum Design Material Handling Rate (TPH) |
|-----------------------------------|----------------------------|--------------------------------------|---|
| Barge to East Grab Bucket | Grab Bucket | ---- | 1500 |
| East Grab Bucket to East Hopper | Side Enclosure | 25% | 1500 |
| Barge to West Continuous Unloader | Enclosure | 40% | 1500 |
| Barge to West Grab Bucket | Grab Bucket | ----- | 1500 |
| West Grab Bucket to West Hopper | Side Enclosure | 25% | 1500 |
| East Hopper to Feeder | ----- | ----- | 1500 |



-0040 - 08

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

PROCESS DESCRIPTIONS: (continued)

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|---|---|--|
| West Hopper to Feeder | ---- | ---- | 1500 |
| Continuous System to Feeder | Enclosure | 70% | 1500 |
| East/West Feeder to Conveyor B | Enclosure | 50% | 1500 |
| Continuous System Feeder to Conveyor B | Enclosure | 70% | 1500 |
| Conveyor B to Conveyor C | Enclosure | 50% | 3000 |
| 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% | ---- |
| Live Limestone Stockpile | ---- | ---- | ---- |

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

PROCESS DESCRIPTIONS: (continued)

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|--|---|--|
| 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 & Wet Sprays | 70% | 1600 |
| Conveyors H1/H2 to Conveyor J1/J2 | Enclosure | 70% | 1600 |
| Conveyor J1/J2 to Bunkers | Enclosure | 70% | 1600 |
| Conveyor D1/D2 to Conveyor 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: 17-360.0 E 3087.5 N NEDS NO: 0040 Point ID: 08

Replaces Permit No.: AO29-136682

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The annual coal throughput shall not exceed 2.85 million tons per year.
3. Visible emissions generated by fugitive or unconfined particulate matter from coal handling systems and storage areas shall not exceed 5% opacity. [Construction Permit AC29-152987]
4. All controls associated with 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.
5. Dead coal storage piles shall not be used in day to day activities. Their use shall be restricted to those times when normal deliveries cannot supply boiler requirements.
6. The west coal unloading system shall consist of two separate barge unloading systems. No more than two of the three barge unloading systems at the barge unloading facility shall be in operation at any time.
7. A thirty (30) minute visible emissions test shall be performed at the following material transfer operations at 12 month intervals from or starting ninety (90) days prior to December 31, 1991. 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: [Rule 17-297, F.A.C.]
 - A) The east bucket to the east hopper
 - B) The west bucket to the west hopper
 - C) The railcar to the hopper
 - D) Either the conveyor E1 or E2 to their respective stockpiles where the initial free fall is at least 30 feet
 - E) The hammermill crusher to either the conveyor H1 or H2
 - F) The conveyors D1 or D2 to either conveyor G1 and G2
 - G) Either the conveyor J1 or J2 to their respective bunkers
8. Compliance with the emission limitation of Specific Condition No. 3 shall be determined using DER Method 9. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with Rule 17-297, F.A.C.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

9. All compliance testing shall be conducted during normal operation and at the maximum material (including limestone or iron ore where applicable) transfer rate attainable during the test period. Actual material handling rates will be determined using the totalizer readings obtained from scales located on C, L, and H conveyors. The readings from these scales will be recorded at the start and finish of the visible emissions test. The difference between the values recorded divided by the test duration will be the value used to represent the material handling rate. Alternatively, values from the circular chart recorders located in the coal field control room will be used in the event a problem with a scale totalizer arises. The test results shall indicate if iron ore has been included in the corresponding material transfer rate. Failure to include the actual process or production rate in the results may invalidate the test. [Rule 17-4.070(3), F.A.C. and Supplement to Application, December 18, 1992]

10. 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%. Other appropriate methods may be applied to maintain this opacity, after they are approved by the Department.

11. Should the Department have reason to believe the visible emission standards are not being met, the Department may require that compliance with the visible emission standards be demonstrated by testing in accordance with Rule 17-297, F.A.C.

12. Operation and Maintenance Plan for Particulate Control: [Rule 17-296.700, F.A.C. and Application for Renewal, July 16, 1992]

A) Process Parameters:

1. For all sources covered under this permit, permitted operation schedule: 24 hrs./day, 7 days/wk.; 52 wks./yr.
2. Equipment Data:
Conveyor Hoods: Corrugated Aluminum
Transfer Point Enclosures: Carbon Steel
3. Wet Dust Suppression: *CC-4000*
Manufacturer: Martin Marietta

B) Inspection and Maintenance Procedures:

The coal yard particulate control equipment receives regular preventative maintenance as follows:

Conveyor Enclosures:

1. Daily random visual inspections of conveyor hoods.
2. Daily random visual inspections of the transfer points chute work.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

Dust Suppression System:

1. Quarterly inspection of system for water leaks.
2. Quarterly inspection of spray nozzles.

The pumps, tanks, etc., that make-up the dust suppression system undergo normal maintenance including lubrication, flushing, and draining.

Should these procedures indicate repairs are necessary, maintenance job requests are initiated. All records are maintained for a minimum of two years.

13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-296.310, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

14. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

The report shall be submitted only to the Environmental Protection Commission of Hillsborough County.

15. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit. The changes may include, but are not limited to, the following, and may also require prior authorization before implementation: [Rules 17-209.200, 17-210.300 and 17-4.070(3), F.A.C.]

- A) Alteration or replacement of any equipment or parameter listed on page 1 of this permit.
- B) Installation or addition of any equipment which is a source of air pollution.
- C) Any changes in the method of operation, raw materials, products or fuels.

* Not applicable to normal maintenance and repairs, and vehicles used for transporting material.

PERMITTEE:
Tampa Electric Company

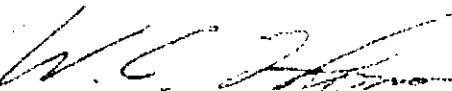
PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

16. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-209, 17-210, 17-212, 17-272, 17-275, 17-296, and 17-297, F.A.C., or any other requirements under federal, state, or local law. [Section 17-210.300, F.A.C.]

17. Four copies of an application for renewal of the permit to operate this source shall be submitted to the Florida Department of Environmental Regulation at least 60 days prior to its expiration date. [Rules 17-4.050 and 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Director of District Management
Southwest District



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

revised?
12/15/89

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION
Permit No.: A029-136682
County: Hillsborough
Issued Date: 09/25/87
Amendment Date: 12/15/89
Expiration Date: 09/16/92
Project: ~~Gannon Station Coal~~
Yard

This permit amendment 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 bituminuous 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, transfer and storage of both materials are covered under this permit. These include but are not limited to the following:

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|-----------------------------------|-----------------------------------|---|--|
| Barge to East Grab Bucket | Grab Bucket | - - | 1500 |
| East Grab Bucket to East Hopper | Windshield & Side Enclosure | 25% | 1500 |
| Barge to West Continuous Unloader | Enclosure | 40% | 1500 |
| Barge to West Grab Bucket | Grab Bucket | - - | 1500 |
| West Grab Bucket to West Hopper | Side Enclosure | 25% | 1500 |

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-136682
Project: Gannon Station Coal Yard

PROCESS DISCRIPTION: (continued)

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|--|---|--|
| East Hopper to Feeder | - - | - - | 1500 |
| West Hopper to Feeder | - - | - - | 1500 |
| Continuous System to Feeder | Enclosure | 70% | 1500 |
| Feeder to Conveyor B | Enclosure | 50% | 1500 |
| Continuous System Feeder to Conveyor B | Enclosure | 70% | 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% | - - |

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-136682
Project: Gannon Station Coal Yard

PROCESS DISCRIPTION: (continued)

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|---|---|--|
| Dead Coal Stockpile | Moisture Content (approximately 8-11%) & Compaction | 70% | - - |
| 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 to Conveyor J1/J2 | Enclosure | 70% | 1600 |
| Conveyor J1/J2 to Bunkers | Enclosure | 70% | 1600 |
| Conveyor D1/D2 to Conveyor G1/G2 | Enclosure & Wet Sprays | 95% | 1500 |
| Vehicular Entrainment | - - | - - | - - |
| Stockpile Maintenance | Moisture Content (approximately 8-11%) | 50% | - - |

Loaction: Port Sutton Road, Port Sutton, Tampa

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

Incorporates Permit No.: A029-136682 & AC29-152987

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-136682
Project: Gannon Station Coal Yard

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The annual coal throughput shall not exceed 2.85 million tons per year.
3. 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, Subsection 17-2.700(6)(a)9., F.A.C.
4. All controls listed in applications 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.
5. Dead coal storage piles shall not be used in day to day activities. Their use shall be restricted to those times when normal deliveries cannot supply boiler requirements.
6. The west coal unloading system shall consist of two separate barge unloading systems. No more than two of the three barge unloading systems at the barge unloading facility shall be in operation at any time.
7. At 12 month intervals from or ninety (90) days prior to September 30, 1989, the permittee shall conduct thirty (30) 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 30 feet, the hammermill crusher to either the conveyor H1 or H2, the conveyors D1 or D2 to either 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.
8. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on these sources.
9. All compliance testing shall be conducted during normal operation and at the maximum rate attainable during the test period.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-136682
Project: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

10. 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%. Other appropriate methods may be applied to maintain this opacity, after they are approved by the Department.

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

12. Operation and Maintenance Plan for Particulate Control (Subsection 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 checked.

Monthly

Visually inspect the chutework system for the transfer points.

Quarterly

- (1) Proportional 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 nozzels

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-136682
Project: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

Semi-annual

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

Annual

- (1) Perform semi-annual preventive mainteance
 - (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
13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provisions in Section 17-2.610(3), F.A.C.
14. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following:
- (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.

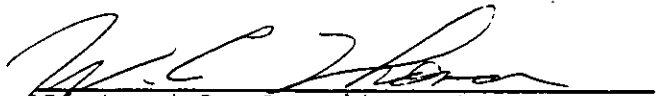
Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County.

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

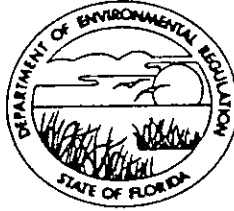
Issued this 25th day of September
1987.

Amended this 15 day of Dec.
1989.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


For Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
 TAMPA, FLORIDA 33610-7347
 813-623-5561
 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 Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling 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

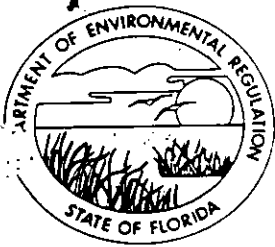
- (1) Perform semi-annual preventive maintenance
- (2) Inspect pump valve and repair as necessary
- (3) Check for movement in pipes that could put strain on pump casing
- (4) Check pump motor alignment

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



Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Carol M. Browner, Secretary

Unit 9

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-218858
County: Hillsborough
Expiration Date: 11/06/97
Project: F. J. Gannon Station
Unit 4 Economizer
Ash Silo with
Baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code 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 of hereof and specifically described as follows:

For the operation of the F. J. Gannon Station Unit 4 Economizer Ash Handling System and Silo. Economizer ash collected in the economizer section of the boiler is either re-injected into the boiler or pneumatically conveyed to a 16 ft. diameter, 20 ft. high silo at a maximum rate of 1500 lbs./hr. The ash in the silo is gravity fed by tubing into closed tanker trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by an 830 ACFM Mikropul Corporation Model 365-10-30 baghouse.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 09

Replaces Permit No.: AO29-160260

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum allowable emissions for this baghouse, based on a design flow of 496 DSCFM (830 ACFM), shall not exceed: [Rule 17-296.711(2), F.A.C.]

| <u>Pollutant</u> | <u>lbs./hr.</u> | <u>tons/yr.</u> | <u>Emission Limitation</u> |
|--------------------|-----------------|-----------------|---|
| Particulate Matter | 0.13 | 0.56 | 0.03 grains/dscf |
| Visible Emissions | | | None (visible emissions less than or equal to 5% opacity) |

3. The maximum allowable emission rate for particulate matter for this source is set by Specific Condition No. 2. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby allows the particulate testing to be waived in lieu of a visible emission limitation not to exceed an opacity of 5% for the duration of the thirty-(30) minute test.

4. The permittee shall notify the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [Rules 17-297.340(1)(i) and 17-209, F.A.C.]

5. Testing of emissions must be accomplished at 90-100% of the maximum electrical generating capacity (normally 187 MW) of Unit 4, with 100% of the economizer ash available directed to the silo. The actual MW generation rate shall be specified in each test report. Failure to include the actual generating rate in the report may invalidate the test. [Rule 17-4.070(3), F.A.C.]

6. Test the emissions within 30 days of start-up and annually thereafter within thirty (30) days of the anniversary of the start-up date. Submit one copy of the test report to the Environmental Protection Commission of Hillsborough County and one to the Florida Department of Environmental Regulation within forty-five (45) days of testing. Testing procedures shall be consistent with the requirements of Rule 17-297, F.A.C.

7. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing. [Rule 17-297, F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

8. Operation and Maintenance Plan for Particulate Control: [Rule 17-296.700, F.A.C.]

A) Process Parameters:

1. Source Designators: Economizer Ash Silo
2. Baghouse Manufacturer: Micropul Corporation
3. Model Name and Number: 365-10-30
4. Design Flow Rate: 830 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 6 in. H₂O max.
7. Air to Cloth Ratio: 2:1
8. Bag Weave: Not Specified
9. Bag Material: Nomex
10. Bag Cleaning Conditions: Pulse Jet @ 100 psig.
11. Gas Flow Rate: 830 ACFM
12. Gas Temperatures: inlet; 350 F.; outlet; 350 F.
13. Stack Height Above Ground: 72 ft.
14. Exit Diameter: 8 in.
15. Exit Velocity: 21 f.p.s.
16. Water Vapor Content: 29%
17. Process Controlled by Collection System: Fly Ash Handling
18. Material Handling Rate: 1500 lbs./hr. (estimated)
19. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wk./yr.

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily

1. Check pressure drop and operation of manometer at each shift change (three times daily).
2. Observe stack (visual), and change filter bags as necessary. Document date and number of bags replaced.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel for abnormal operation.
6. Check reverse air pressure.
7. Assure that dust is being removed from system. Unplug hopper if required.

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Environmental Protection Commission of Hillsborough County upon request. [Rule 17-296.700(6)(e), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, loading or transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

10. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Chapter 1-3.22(3) of the Rules of the Environmental Protection Commission of Hillsborough County]

11. Effective upon start-up, submit for the silo ash handling system each calendar year on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

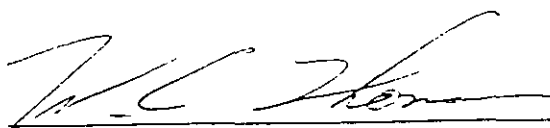
- A) Annual amount of materials and/or fuels utilized.
- B) Annual emissions (note calculation basis).
- C) Any changes in the information contained in the permit application.

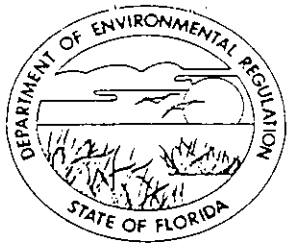
The report shall be submitted only to the Environmental Protection Commission of Hillsborough County.

12. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 17-200, F.A.C. series rules, or any other requirements under federal, state, or local law. [Section 17-210.300, F.A.C.]

13. Two applications for renewal of permit to operate this source shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date. If this source is not reactivated before the expiration of this permit, the permit shall not be renewed. [Rules 17-4.090 and 17-210.300, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard Garrity, Ph.D.
Director of District Management



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Richard Garrity, Deputy Assistant Secretary

RECEIVED

SEP 6 1989

E.P.C. OF H.C.
AIR PROGRAM

August 29, 1989

NOTICE OF PERMIT

Mr. Jerry L. Williams
Director Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

Dear Mr. Williams:

RE: Hillsborough County - AP
F.J. Gannon Station
Unit 4 Economizer Ash Silo
with Baghouse

Enclosed is Permit Number AO29-160260 for the operation of the F.J. Gannon Station Unit 4 Economizer Fly Ash Silo with Baghouse, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

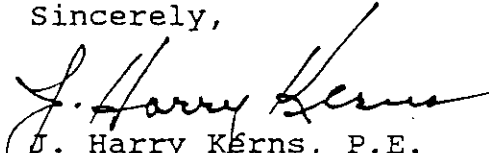
Tampa Electric Company
Tampa, FL 33601

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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, 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/AJW/bb

Attachment:

cc: ✓ Environmental Protection Commission
of Hillsborough County

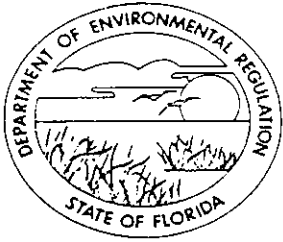
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on AUG 29 1989 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.


CLERK

AUG 29 1989
DATE



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-160260
County: Hillsborough
Expiration Date: 11/06/92
Project: F.J. Gannon Station
Unit 4 Economizer Ash
Silo with Baghouse

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station Unit 4 Economizer Ash System. Economizer ash collected in the economizer section of the boiler is either re-injected into the boiler or pneumatically conveyed to a 16 ft. diameter, 20 ft. high silo at a maximum material handling and loading rate of 1500 lbs./hr. The ash in the silo is gravity fed by tubing into closed tanker type trucks for transport to an offsite consumer. Particulate emissions generated during the material handling and loading of the silo are controlled by a 1070 ACFM Mikropul Corporation Model 365-10-30 baghouse.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 09

Replaces Permit No.: AO29-87409

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160260
PROJECT: F.J. Gannon Station
Unit 4 Economizer Ash Silo
with Baghouse

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Pursuant to Subsection 17-2.650(2)(c)11.b., F.A.C. the maximum allowable emissions for this baghouse based on a design flow of 541 dscfm shall not exceed:

| <u>Pollutant</u> | <u>lbs./hr.</u> | <u>tons/yr.</u> | <u>Emission Limitation</u> |
|--------------------|-----------------|-----------------|---|
| Particulate Matter | 0.14 | 0.61 | 0.03 grains/dscf |
| Visible Emissions | | | None (visible emissions less than or equal to 5% opacity) |

3. Test the emissions for the following pollutants within 30 days of start-up and annually thereafter from this date or within a ninety (90) day period prior to the annual date, and submit one copy of the test data to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within forty five days of such testing. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Particulates* | <input type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Fluorides | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity | <input type="checkbox"/> Hydrocarbons |
| | <input type="checkbox"/> Total Reduced Sulfur |

* Source is exempt from particulate testing if a visible emissions test indicating no visible emissions is submitted pursuant to Subsection 17-2.700(1)(d)6., F.A.C.

4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method #9 test interval on this source shall be for a thirty (30) minute duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160260
PROJECT: F.J. Gannon Station
Unit 4 Economizer Ash Silo
with Baghouse

SPECIFIC CONDITIONS: (continued)

- ✓ 5. Testing of emissions must be accomplished at approximately maximum silo loading conditions which corresponds to maximum ($\pm 10\%$ of 187 MW) Unit 4 generating capacity. The actual Unit 4 generating capacity shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].
- ✓ 6. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source.
- ✓ 7. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes.

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

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

- ✓ 8. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing in accordance with Section 17-2.700, F.A.C.
- ✓ 9. Operation and Maintenance Plan for Particulate Control [Subsection 17-2.650(2), F.A.C.].

A. Process Parameters:

- 1. Source Designators: Economizer Ash Silo
- 2. Baghouse Manufacturer: Micropul Corporation
- 3. Model Name and Number: 365-10-30
- 4. Design Flow Rate: 830 ACFM
- 5. Efficiency Rating at Design Capacity: 99.9%
- 6. Pressure Drop: 6 in. water (maximum)
- 7. Air to Cloth Ratio: 2:1
- 8. Bag Material: Nomex

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160260
PROJECT: F.J. Gannon Station
Unit 4 Economizer Ash Silo
with Baghouse

SPECIFIC CONDITIONS: (continued)

9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas flow rate: 830 ACFM
11. Gas temperatures: inlet and outlet: 350 F
12. Stack Height above ground: 72 ft.
13. Exit Diameter: 8 in.
14. Exit Velocity: 21 fps
15. Process controlled by collection system: material handling - fly ash
16. Material Handling Rate: calculated to be 1500 lbs. ash per hour
17. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wks./yr.

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

Daily Checks

1. Baghouse pressure drop - inspect manometer at each change in shift (3 times daily). Log information. Change filter bag if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document as necessary.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.)
4. Observe indicators on control panel for abnormal operation conditions.
5. Unplug hopper if necessary.

C. Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department of Environmental Protection Commission of Hillsborough County upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

10. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include but are not limited to the removal of fugitive economizer ash emissions from the grounds adjacent to the loadout area on an as-needed basis. Also, tubing from the silo into closed tanker type trucks shall be utilized during loadout.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160260
PROJECT: F.J. Gannon Station
Unit 4 Economizer Ash Silo
with Baghouse

SPECIFIC CONDITIONS: (continued)

11. In accordance with Subsection 17-2.210(2)(c), F.A.C., the expiration date of this permit is November 6, 1992.

12. Pursuant to Subsection 17-2.210(2)(d), F.A.C., at least 10 days prior to reactivation of this source, notify the Environmental Protection Commission of Hillsborough County and the Department of Environmental Regulation's Tampa office that such reactivation would not constitute reconstruction pursuant to Subsection 17-2.660(3)(g), F.A.C.

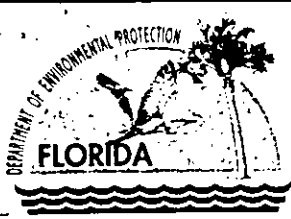
13. Pursuant to Section 17-4.09, F.A.C., an application for renewal of permit to operate this source shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 28 day of Aug
1989.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Deputy Assistant Secretary



Department of Environmental Protection

Unit 11

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: A029-250140
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 1-4 Fly Ash
Silo with Baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 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:

For the operation of F.J. Gannon Station Units 1-4 Fly Ash Silo (silo No. 2) with baghouse. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 1-4 is pneumatically conveyed to a 30 foot diameter, 45.5 foot high silo. The fly ash in the silo is gravity fed by tubing into enclosed tanker trucks for transport to an off-site consumer.

Particulate emissions generated during the filling of the silo are controlled by a 4,690 ACFM Allen-Sherman-Hoff Corporation Flex Kleen 84 WRW C112IIG baghouse system which is comprised of two (2) bag filters with three (3) common stacks.

Location: Port Sutton Road, Tampa, Hillsborough County

UTM: 17-360.1 3087.5 N NEDS NO: 0040 Point ID:
11-Fly Ash Silo No. 2

Replaces Permit No.: A029-160259

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Total allowable particulate matter emissions based on a design flow rate of 4,696 ACFM for the following source shall not exceed the following (Rule 17-296.711(2)(b), F.A.C.):

| <u>Source</u> | <u>pounds/hour</u> | <u>tons/year</u> | <u>Emission Limitation</u> |
|---------------|--------------------|------------------|----------------------------|
| Fly Ash Silo | 1.2 | 5.3 | 0.03 grains/dscf |

3. Visible emissions from the following source shall not exceed the following (Rule 17-296.711(2)(a), F.A.C.):

| <u>Source</u> | <u>Emission Limitation</u> |
|---------------|----------------------------|
| Fly Ash Silo | 5% Opacity |

4. Test the emissions from the fly ash silo annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.):

(X) Particulate Matter (X) Visible Emissions

5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2,3,4,5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests shall be conducted concurrently on the three common stacks and while loading the silo from at least 3 of the 4 units.

6. Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because the fly ash silo is equipped with a baghouse emission control device, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

7. All compliance tests will be conducted under the following conditions (Rule 17-4.070(3), F.A.C.):

- A) Conveyance blower will be turned off at least 1 hour prior to the test to allow an adequate build-up of fly ash in the precipitator hoppers.
- B) All conveyance hoppers will be operational during the tests.
- C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler system will occur during the tests.
- D) At least 3 of the 4 boilers shall be operational during the tests.

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

9. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

10. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

11. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but are not limited to, the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as needed basis. Also, tubing from the silo into the enclosed tanker truck shall be utilized during loading.

12. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 1-4 Fly Ash Silo
2. Baghouse Manufacturer: Allen-Sherman-Hoff Corporation
3. Model Name and Number: Flex Kleen 84 WRW C112IIG
4. Design Flow Rate: 4,696 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 8 in. water (maximum)
7. Air to Cloth Ratio: 2:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas Flow Rate: 4,696 ACFM
11. Gas Temperature: inlet, 300°F, outlet: 350°F
12. Stack Height Above Ground: 3 @ 107 feet
13. Exit Diameter: 3 @ 12 in.
14. Exit Velocity: 33 fps
15. Process Controlled by Collection System: Fly Ash
Material Handling
16. Material Handling Rate: Calculated to be 14.5 ton/hour
Fly Ash
17. Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop - inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

Specific Condition No. 12 continued:

3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag)
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper if necessary.

C) Records:


Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

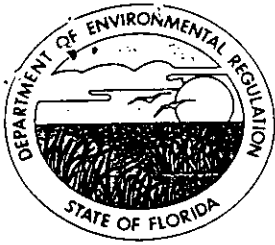
13. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

14. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

15. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For Dr. Richard D. Garrity, Ph.D.
Director of District Management
Southwest District



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

February 7, 1990

Mr. Jerry L. Williams
Director - Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

RECEIVED

FEB 12 1990

Dear Mr. Williams:

E.P.C. OF H.C.
AIR PROGRAM

Re: Hillsborough County - AP
Permit Amendment
F.J. Gannon Station Units 1-4
Fly Ash Silo with Baghouse

The Department acknowledges your request to amend permit number AO29-160259. The following changes are hereby made in the permit as agreed upon by the Department and Tampa Electric Company on Monday, January 29, 1990:

CHANGE PROCESS DESCRIPTION FROM:

For the operation of the F.J. Gannon Station Units 1-4 Fly Ash Handling System. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 1-4 is pneumatically conveyed to a 30 ft. diameter, 45.5 ft. high silo at a maximum loading rate of 14.4 tons/hr. The ash in the silo is gravity fed by tubing into closed tanker type trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by a 4,690 ACFM Allen-Sherman-Hoff Corporation Flex Kleen 84 WRW C112IIG baghouse system which is comprised of two (2) bag filters with three (3) common stacks.

CHANGE PROCESS DESCRIPTION TO:

For the operation of the F.J. Gannon Station Units 1-4 Fly Ash Handling System. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 1-4 is pneumatically conveyed to a 30 ft. diameter, 45.5 ft. high silo at the maximum loading rate. The ash in the silo is gravity fed by tubing into closed tanker type trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by a 4,690 ACFM Allen-Sherman-Hoff Corporation Flex Kleen 84 WRW C112IIG baghouse system which is comprised of two (2) bag filters with three (3) common stacks.

CHANGE SPECIFIC CONDITION NO. 6 FROM:

6. Testing the emissions must be accomplished at approximately the maximum silo feed rate of 14.4 tons fly ash per hour. The fly ash silo feed rate shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].

CHANGE SPECIFIC CONDITION NO. 6 TO:

6. All compliance tests shall be conducted while loading the silo at approximately the maximum feed rate. Failure to submit the input rate or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

Persons whose substantial interests are affected by this permit amendment have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

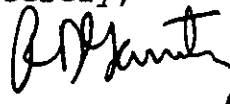
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399; 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 the Final Order is filed with the Clerk of the Department.

Mr. Jerry L. Williams
Tampa, FL 33601

Page Three

A copy of this letter must be attached to and becomes a part of permit number A029-160259. If you have any questions, please call Mr. J. Harry Kerns of my staff at (813) 623-5561.

Sincerely,



Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

RDG/SKB/bb

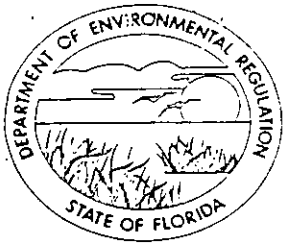
cc: ✓ Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on FEB - 7 1990 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to Subsection 120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Marilyn Quispe FEB - 7 1990
Clerk Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John S. ...
Richard ...
RECEIVED

August 29, 1989

SEP 6 1989

NOTICE OF PERMIT

E.P.C. OF H.C.
AIR PROGRAM

Mr. Jerry L. Williams
Director Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

Dear Mr. Williams:

RE: Hillsborough County - AP
F.J. Gannon Station
Units 1-4 Fly Ash Silo
with Baghouse

Enclosed is Permit Number A029-160259 for the operation of the F.J. Gannon Station Units 1-4 Fly Ash Silo with Baghouse, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

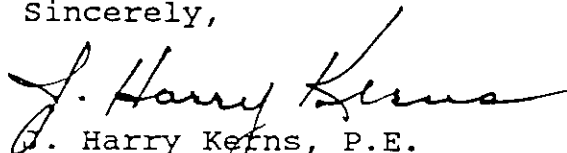
Tampa Electric Company
Tampa, FL 33601

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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, 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/AJW/bb

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

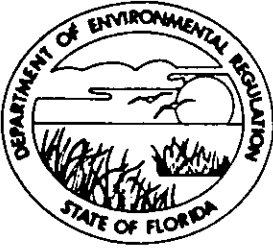
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on AUG 29 1989 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.


CLERK

AUG 29 1989
DATE



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-160259
County: Hillsborough
Expiration Date: 06/30/94
Project: F.J. Gannon Station
Units 1-4 Fly Ash
Silo with Baghouse

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station Units 1-4 Fly Ash Handling System. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 1-4 is pneumatically conveyed to a 30 ft. diameter, 45.5 ft. high silo at a maximum loading rate of 14.4 tons/hr. The ash in the silo is gravity fed by tubing into closed tanker type trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by a 4,690 ACFM Allen-Sherman-Hoff Corporation Flex Kleen 84 WRW C112IIG baghouse system which is comprised of two (2) bag filters with three (3) common stacks.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 11

Replaces Permit No.: A029-80048

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-160259
PROJECT: F.J. Gannon Station
Units 1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Pursuant to Subsection 17-2.650(2)(c)11.b., F.A.C. the maximum allowable emissions for this baghouse system based on a design flow of 4,690 ACFM shall not exceed:

| Pollutant | lbs./hr. | tons/yr. | Emission Limitation |
|--------------------|----------|----------|---|
| Particulate Matter | 1.2 | 5.3 | 0.03 grains/dscf |
| Visible Emissions | | | None (visible emissions less than or equal to 5% opacity) |

3. Test the emissions for the following pollutant(s) at intervals of 12 months from March 14, 1989 or within a ninety (90) day period prior to this date, and submit one copy of the test data to both the Air Section of the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within forty five days of such testing. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C.

- | | |
|---|---|
| <input checked="" type="checkbox"/> Particulates* | <input type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Fluorides | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity | <input type="checkbox"/> Hydrocarbons |
| | <input type="checkbox"/> Total Reduced Sulfur |

* Source is exempt from particulate testing if a visible emissions test indicating no visible emissions is submitted pursuant to Subsection 17-2.700(1)(d)6., F.A.C.

4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method #9 test interval on this source shall be for a thirty (30) minute duration, and the test shall be conducted concurrently on the three common stacks of the control equipment. Visible emissions tests shall be conducted while loading the silo from 3 of the 4 units. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-160259
PROJECT: F.J. Gannon Station
Units 1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

5. All compliance tests will be conducted under the following conditions:

A) Conveyance blower will be turned off at least 1 hour prior to the test to allow for an adequate build up of fly ash in the precipitator hoppers.

B) All conveyance hoppers will be operational during the test.

C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler system will occur during the test.

6. ~~Testing of emissions must be accomplished at approximately the maximum silo feed rate of 14.4 tons fly ash per hour. The fly ash silo feed rate shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].~~

7. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source.

8. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 10, Chapter 84-446, Laws of Florida.

(A) Annual amount of materials and/or fuels utilized.

(B) Annual emissions (note calculation basis).

(C) Any changes in the information contained in the permit application.

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

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

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160259
PROJECT: F.J. Gannon Station
Units 1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

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

A. Process Parameters:

1. Source Designators: Units 1-4 Fly Ash Silo
2. Baghouse Manufacturer: Allen-Sherman-Hoff Corporation
3. Model Name and Number: Flex Kleen 84 WRW C112IIG
4. Design Flow Rate: 4,690 ACFM
5. Efficiency Rating at Design Capacity: 99.8%
6. Pressure Drop: 8 in. water (maximum)
7. Air to Cloth Ratio: 2:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas flow rate: 4,690 ACFM
11. Gas temperatures: inlet; 300 F, outlet: 350 F
12. Stack Height above ground: 3 @ 107 ft.
13. Exit Diameter: 3 @ 12 in.
14. Exit Velocity: 33 fps
15. Process controlled by collection system: material handling - fly ash
16. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wks./yr.

- B. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily Checks

1. Baghouse pressure drop - inspect manometer at each change in shift (3 times daily). Log information. Change filter bag if necessary
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document as necessary.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.)
4. Observe indicators on control panel for abnormal operation conditions.
5. Unplug hopper if necessary.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160259
PROJECT: F.J. Gannon Station
Units 1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

C. Records:

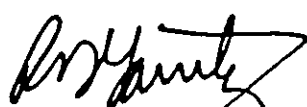
Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Environmental Protection Commission of Hillsborough County upon request [Subsection 17-2.650(2)(g)5., F.A.C.].

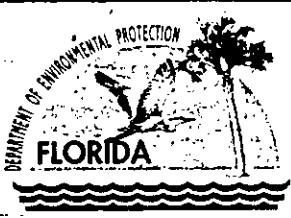
11. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include but are not limited to the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as-needed basis. Also, tubing from the silo into closed tanker type trucks shall be utilized during loadout.

12. Pursuant to Section 17-4.09, F.A.C., an application for renewal of permit to operate this source shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 28 day of Aug
1989.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard Garrity, Ph.D.
Deputy Assistant Secretary



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Units 10-12
Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: A029-250137
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 5 and 6 Fly
Ash Silo with
Baghouse and Pugmill

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 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:

For the operation of F.J. Gannon Station Units 5 and 6 Fly Ash Silo (silo No. 1) with baghouse and pugmill. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 5 and 6 is pneumatically conveyed to a 25 foot diameter, 50 foot high silo. The fly ash in the silo is gravity fed by chute into enclosed tanker trucks or to a pugmill where it is "conditioned" by wetting with water and gravity fed by chute into open bed trucks. The fly ash is then transported to an off-site consumer.

Particulate emissions generated during the filling of the silo are controlled by a 11,300 ACFM United States Filter Corporation Mikro-Pulsaire Model 1F3-24 baghouse.

Location: Port Sutton Road, Tampa, Hillsborough County

UTM: 17-360.1 3087.5 N NEDS NO: 0040 Point ID:
10-Fly Ash Silo/Baghouse
12-Fly Ash Silo/Truck
Loading

Replaces Permit No.: A029-160258

Page 1 of 5.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Total allowable particulate matter emissions based on a design flow rate of 11,300 ACFM for the following source shall not exceed the following (Rule 17-296.711(2)(b), F.A.C.):

| <u>Source</u> | <u>pounds/hour</u> | <u>tons/year</u> | <u>Emission Limitation</u> |
|---------------|--------------------|------------------|----------------------------|
| Fly Ash Silo | 2.9 | 12.7 | 0.03 grains/dscf |

3. Visible emissions for the following sources shall not exceed the following (Rule 17-296.711(2)(a), F.A.C.):

| <u>Source</u> | <u>Emission Limitation</u> |
|-----------------------|----------------------------|
| Fly Ash Silo/Baghouse | 5% Opacity |
| Truck Loading | 5% Opacity |

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

*(X) Particulate Matter **(X) Visible Emissions
*(X) Visible Emissions

5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2,3,4,5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests on the truck loading shall alternate from year to year, so that over a two year period both conditioned and unconditioned fly ash loading will be tested.

6. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

7. All compliance tests will be conducted under the following conditions (Rule 17-4.070(3), F.A.C.):

- A) Conveyance blower will be turned off at least 1 hour prior to the test to allow an adequate build-up of fly ash in the precipitator hoppers.
- B) All conveyance hoppers will be operational during the tests.
- C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler systems will occur during the tests.
- D) Both boilers shall be operational during the tests.

8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.05 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum loading rate, is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

9. Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because the fly ash silo is equipped with a baghouse emission control device, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

10. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

11. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but are not limited to, the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as needed basis.

12. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 5 and 6 Fly Ash Silo
2. Baghouse Manufacturer: United States Filter Corporation
3. Model Name and Number: Mikro-Pulsaire Unit #1F3-24
4. Design Flow Rate: 11,300 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 5 in. water (maximum)
7. Air to Cloth Ratio: 5:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas Flow Rate: 11,300 ACFM
11. Gas Temperature: inlet and outlet; 300°F
12. Stack Height Above Ground: 104 feet
13. Exit Diameter: 18 in. X 26 in.
14. Exit Velocity: 58 fps
15. Process Controlled by Collection System: Fly Ash
Material Handling
16. Material Handling Rate: Calculated to be 13.05 ton/hour
Fly Ash
17. Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop - inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

Specific Condition No. 12 continued:

3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.).
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper if necessary.

C) Records:

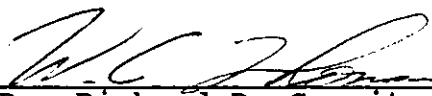
Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

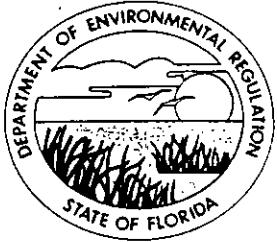
13. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

14. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

15. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For, Dr. Richard D. Garrity, Ph.D.
Director of District Management
Southwest District



SW

Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

JUL 23 1992

E.P.C. OF H.C.
AIR PROGRAM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

Mr. Lynn F. Robinson
Director Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

DER File No.: A029-160258
County: Hillsborough

Enclosed is amended Permit Number A029-160258 for the operation of the F.J. Gannon Station Units 5 and 6 Fly Ash Silo with Baghouse and Pugmill, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this amended permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this amended permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. 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.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

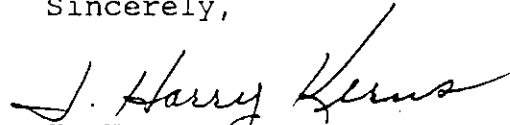
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amended permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This amended permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (amended Permit) is final, any party to the Order has the right to seek judicial review of the Order 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/SKW/bm

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

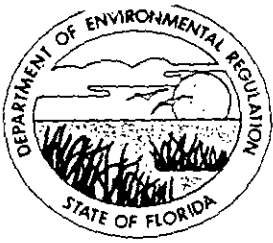
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on JUL 24 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.


Clerk

JUL 24 1992
Date



Florida Department of Environmental Regulation.

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-160258
County: Hillsborough
Amendment Date: 07/24/92
Expiration Date: 06/30/94
Project: F.J. Gannon Station
Units 5 and 6 Fly
Ash Silo with
Baghouse and Pugmill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code 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 of hereof and specifically described as follows:

For the operation of the F.J. Gannon Station Units 5 and 6 fly ash silo with baghouse and pugmill. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 5 and 6 is pneumatically conveyed to a 25 ft. diameter, 50 ft. high silo. The ash in the silo is gravity fed by chute into closed tanker trucks or to a pugmill where it is "conditioned" by wetting with water and gravity fed by chute into open bed trucks. The ash is then transported to an off-site consumer.

Particulate emissions generated during the loading of the silo are controlled by a 11,300 ACFM United States Filter Corporation Mikro-Pulsaire Unit 1F3-24 baghouse.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 NEDS NO: 0040 Point ID: 10 - Fly Ash Silo
11 - Truck Loading

Amends Permit No.: A029-160258
Replaces Permit No.: A029-80046

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160258
PROJECT: F.J. Gannon Station Units 5
and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Total allowable particulate matter emissions based upon a design flow rate of 11,300 ACFM for the following sources shall not exceed: [Rule 17-2.650(2)(c)11.b., F.A.C.]

| <u>Source</u> | <u>lbs./hr.</u> | <u>tons/yr.</u> | <u>Emission Limitation</u> |
|---------------|-----------------|-----------------|----------------------------|
| Fly Ash Silo | 2.9 | 12.7 | 0.03 grains/DSCF |

3. Visible emissions for the following sources shall not exceed: [Rule 17-2.650(2)(c)11.b., F.A.C.]

| <u>Source</u> | <u>Emission Limitation</u> |
|---------------|----------------------------|
| Fly Ash Silo | 5% |
| Truck Loading | 5% |

4. Test the emissions from the fly ash silo and the truck loading for the following pollutant(s) at intervals of 12 months (\pm 90 days) from March 14, 1989 and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700(2), F.A.C.:

- (X) Particulates*
- (X) Opacity

* A visible emissions test indicating no visible emissions (5% opacity) may be submitted in lieu of a particulate stack test in accordance with Rule 17-2.700(1)(d)6., F.A.C.

5. Compliance with the emission limitations of Specific Condition Nos. 2 and 3 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. The Method #9 test interval shall be at least thirty (30) minutes in duration. The visible emission readings on the truck loading shall alternate from year to year, so that over a two year period both conditioned and unconditioned fly ash loading will be read. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160258
PROJECT: F.J. Gannon Station Units 5
and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS: (continued)

6. All compliance tests will be conducted under the following conditions: [Rule 17-4.070(3), F.A.C.]

- A) Conveyance blower will be turned off at least 1 hour prior to the test to allow for an adequate build-up of fly ash in the precipitator hoppers.
- B) All conveyance hoppers will be operational during the test.
- C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler system will occur during the test.
- D) Both boilers shall be operated during the test.

7. All compliance tests during silo and truck loading should be conducted within 90%-100% of the maximum rate (13.05 tons fly ash per hour). Failure to submit the input rate or operation at conditions which do not reflect actual operating conditions may invalidate the data. [Section 403.161(1)(c), Florida Statutes and Rule 17-4.070(3), F.A.C.]

8. The permittee shall notify the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the contact person who will be responsible for coordinating and having such test conducted. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

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

The emission report shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

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

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

- A) Process Parameters:

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160258
PROJECT: F.J. Gannon Station Units 5
and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS: (continued)

1. Source Designators: Units 5 and 6 Fly Ash Silo
2. Baghouse Manufacturer: United States Filter Corporation
3. Model Name and Number: Mikro-Pulsaire Unit #1F3-24
4. Design Flow Rate: 11,300 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 5 in. water (maximum)
7. Air to Cloth Ratio: 5:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas Flow Rate: 11,300 ACFM
11. Gas Temperatures: inlet and outlet; 300° F.
12. Stack Height Above Ground: 104 ft.
13. Exit Diameter: 18 in. x 26 in.
14. Exit Velocity: 58 f.p.s.
15. Process Controlled by Collection System: Material Handling
Fly Ash
16. Material Handling Rate: Calculated to be 13.05 tons fly
ash per hour
17. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wk./yr.

- B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily

1. Baghouse pressure drop - inspect manometer at each change in shift (3 times daily). Log information. Change filter bag if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document as necessary.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.)
4. Observe indicators on control panel for abnormal operation conditions.
5. Unplug hopper if necessary.

- C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular

PERMITTEE:
Tampa Electric Company

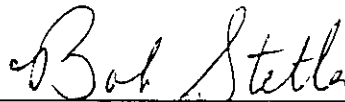
PERMIT/CERTIFICATION NO.: AO29-160258
PROJECT: F.J. Gannon Station Units 5
and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS: (continued)

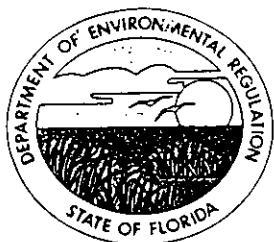
movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but are not limited to, the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as needed basis.

13. An application for renewal of permit to operate this source, completed in quadruplicate, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Director of District Management



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

February 7, 1990

Mr. Jerry L. Williams
Director - Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

RECEIVED

FEB 12 1990

Dear Mr. Williams:

Re: Hillsborough County - AP
Permit Amendment
F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse

E.P.C. OF H.C.
AIR PROGRAM

The Department acknowledges your request to amend permit number A029-160258. The following changes are hereby made in the permit as agreed upon by the Department and Tampa Electric Company on Monday, January 29, 1990:

CHANGE PROCESS DESCRIPTION FROM:

For the operation of the F.J. Gannon Station Units 5 and 6 Fly Ash Handling System. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 5 and 6 is pneumatically conveyed to a 25 ft. diameter, 50 ft. high silo at a maximum loading rate of 13.05 tons/hr. The ash in the silo is gravity fed by tubing into closed tanker trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by a 11,300 ACFM United States Filter Corporation Mikro-Pulsaire Unit 1F3-24 baghouse.

CHANGE PROCESS DESCRIPTION TO:

For the operation of the F.J. Gannon Station Units 5 and 6 Fly Ash Handling System. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 5 and 6 is pneumatically conveyed to a 25 ft. diameter, 50 ft. high silo at the maximum loading rate. The ash in the silo is gravity fed by tubing into closed tanker trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by a 11,300 ACFM United States Filter Corporation Mikro-Pulsaire Unit 1F3-24 baghouse.

CHANGE SPECIFIC CONDITION NO. 6 FROM:

6. Testing the emissions must be accomplished at approximately the maximum silo feed rate of 13.05 tons fly ash per hour. The fly ash silo feed rate shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].

CHANGE SPECIFIC CONDITION NO. 6 TO:

6. All compliance tests shall be conducted while loading the silo at approximately the maximum feed rate. Failure to submit the input rate or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

Persons whose substantial interests are affected by this permit amendment have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

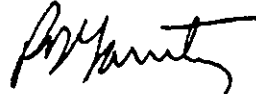
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399; 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 the Final Order is filed with the Clerk of the Department.

Mr. Jerry L. Williams
Tampa, FL 33601

Page Three

A copy of this letter must be attached to and becomes a part of permit number A029-160258. If you have any questions, please call Mr. J. Harry Kerns of my staff at (813) 623-5561.

Sincerely,



Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

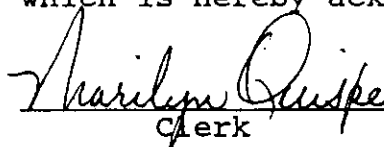
RDG/SKB/bb

cc: ✓ Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on FEB - 7 1990 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.


Clerk

FEB - 7 1990
Date



Department of Environmental Protection

Units
13-18

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: A029-250139
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 1-6 Coal
Bunkers with Six
Roto-Clones

720/11

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 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:

For the operation of F.J. Gannon Station Units 1-6 coal bunkers with an exhaust fan/cyclone collector (Roto-Clone) controlling dust emissions from each unit's respective bunker. Two moving transfer stations via their respective conveyor belts route coal through enclosed chutes to each of the six bunkers. Coal bunkers No. 1-4 and 6 are each equipped with a 9,600 ACFM American Air Filter Company Type D Roto-Clone to abate dust emissions during ventilation. Coal Bunker No. 5 is equipped with a 5,400 ACFM American Air Filter Company Type D Roto-Clone to abate dust emissions during ventilation. A number of vent pipes convey air from each bunker to a Roto-Clone during particulate removal. Particulate matter removed by the Roto-Clones is returned to a coal bunker via a hopper and return line. Units 1-6 coal bunkers are situated in a west to east fashion. Unit 1 coal bunker is located furthest to the west and Unit No. 6 coal bunker furthest to the east.

Location: Port Sutton Road, Tampa, Hillsborough County

| | | | |
|---------------|----------|---------------|----------------------|
| UTM: 17-360.1 | 3087.5 N | NEDS NO: 0040 | Point ID: |
| | | | 13-Unit No. 1 Bunker |
| | | | 14-Unit No. 2 Bunker |
| | | | 15-Unit No. 3 Bunker |
| | | | 16-Unit No. 4 Bunker |
| | | | 17-Unit No. 5 Bunker |
| | | | 18-Unit No. 6 Bunker |

Replaces Permit No.: A029-163823

Page 1 of 5.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Since a source having emissions of less than 1.0 tons/year is exempt from the provisions of particulate RACT, the maximum allowable particulate matter emission rate from each of the six coal bunkers shall not exceed 0.99 tons/year (Rule 17-296.700(2)(c), F.A.C.). Also, the maximum allowable particulate matter emission rate from each of the six coal bunkers shall not exceed 0.19 pounds/hour, as determined from the applicable emission factors described in AP-42, Section 11.2.3 (May, 1983).
3. Visible emissions from each of the six coal bunkers shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 60 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2,3,4,5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests shall be conducted on 2 of the six coal bunkers annually so that over a three year period all six coal bunkers will have been tested. Coal bunkers 5 and 6 shall be tested within 60 days prior to or on March, 29, 1995.
6. The maximum allowable emission rate of particulate matter for each of the six coal bunkers is set by Specific Condition No. 2. Because of the expense and complexity of conducting a stack test on a minor source of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.340(3), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

8. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

9. Should the Department have reason to believe the particulate matter emission standard specified in Specific Condition No. 2 is not being met, the Department may require that compliance with the particulate matter emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

10. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

11. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 1-6 Coal Bunkers
2. Baghouse Manufacturer: American Air Filter Company
3. Model Name and Number: Roto-Clone Dynamic Precipitator
Type D
4. Design Flow Rate: 9,600 ACFM, Units 1-4 and 6
5,400 ACFM, Unit 5
5. Efficiency Rating at Design Capacity: 75.0%
6. Process Controlled by Collection System: Units 1-6 Coal
Bunkers
7. Coal Handling Rate: 1,600 tons/hour for each of
the six coal bunkers
8. Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Quarterly:

1. Motor Inspection

Annually:

1. Piping Inspection
2. Fan Inspection

C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

12. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).


PERMITTEE:
Tampa Electric Company

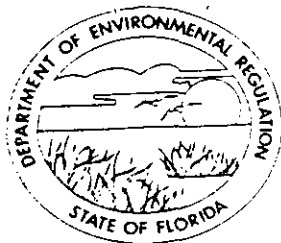
Permit No.: AO29-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

13. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

14. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For Dr. Richard D. Garrity, Ph.D.
Director of District Management
Southwest District



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Steiner, Assistant Secretary

Richard Garity, Deputy Assistant Secretary

RECEIVED

October 6, 1989

OCT 9 1989

NOTICE OF PERMIT

E.P.C. OF H.C.
AIR PROGRAM

Mr. Jerry L. Williams
Director Environmental
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

Dear Mr. Williams:

RE: Hillsborough County - AP
F.J. Gannon Station
Units 1-6 Coal Bunkers with
Six Roto-Clones

Enclosed is Permit Number AO29-163823 to operate Units 1-6 Coal Bunkers with Six Roto-Clones, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399, within fourteen (14) days of receipt of this notice. Failure to file a petition within fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time, this permit will not be effective until further Order of the Department.

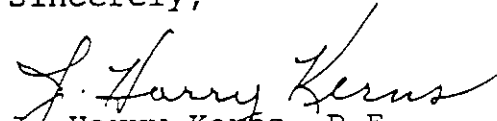
Tampa Electric Company
Tampa, FL 33601

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order 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, 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 the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/AJW/bb

Attachment:

cc: ✓ Environmental Protection Commission
of Hillsborough County
Thomas W. Davis, P.E.

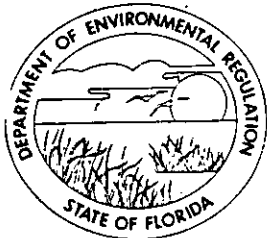
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on OCT - 6 1989 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to
Subsection 120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of which
is hereby acknowledged.


CLERK

OCT - 6 1989
DATE



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-163823
County: Hillsborough
Expiration Date: 06/30/94
Project: F.J. Gannon Station
Units 1-6 Coal
Bunkers with Six
Roto-Clones

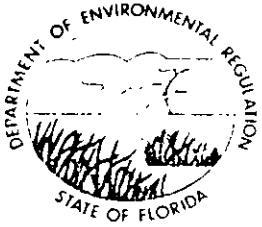
This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached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

For the operation of F.J. Gannon Station Units 1-6 coal bunkers with an exhaust fan/cyclone collector (Roto-Clone) controlling dust emissions from each unit's respective bunker. Two moving transfer stations via their respective conveyor belts route coal through enclosed chutes to the various bunkers. Coal Bunkers 1-4 and 6 are each equipped with a 9600 ACFM American Air Filter (AAF) Company Type D Roto-Clone to abate dust emissions during ventilation. Coal Bunker 5 is equipped with a 5400 ACFM American Air Filter (AAF) Company Type D Roto-Clone to abate dust emissions during ventilation. A number of vent pipes convey air from each bunker to a Roto-Clone during particulate removal. Particulate matter removed by the Roto-Clones is returned to the coal bunkers via a hopper and return line. Units 1-6 coal bunkers are situated in a west to east fashion. Unit No. 1 Coal Bunker is located furthest to the west and Unit No. 6 Coal Bunker furthest to the east.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 13 Unit No. 1
Bunker
14 Unit No. 2
Bunker
15 Unit No. 3
Bunker
16 Unit No. 4
Bunker
17 Unit No. 5
Bunker
18 Unit No. 6
Bunker

Replaces Permit No.: N/A



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

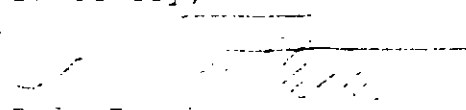
Dear Mr. Williams:

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



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

Office of the Secretary

for FROM: Steve Smallwood *St. Smallwood*

DATE: March 8, 1989

SUBJ: Amendment of Construction Permit

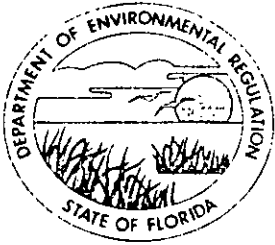
Attached for your approval and signature is a letter that will extend the expiration date of a construction permit issued to Tampa Electric Company for their Gannon Coal Unloader located in Tampa, Florida. The extension is needed because of delays in equipment delivery and other construction related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

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

DT/ks

attachment

St. Smallwood



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

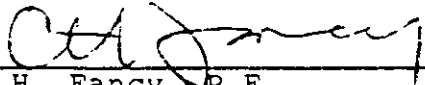
December 8, 1988

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, 1968.

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.

Maitra J. Wise December 8, 1968
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

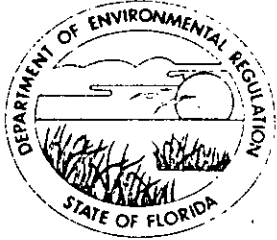
Final Determination

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 Twachmann, 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 reports 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.

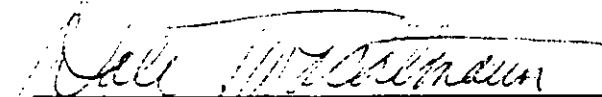
5. A 30 minute visible emissions test shall be conducted annually on the barge and west coal unloading station while it is in operation at its permitted capacity.

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 15 day of September
1988

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary

11/10/88

RECEIVED

Sub...



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,

Jerry L. Williams
Director
Environmental

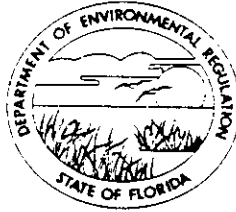
JLW/ams/LL016.DOC

Attachment

[Faint handwritten notes or scribbles]

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

April 14, 1983

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. John B. Ramil
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601

Dear Mr. Ramil:

Enclosed is Permit Number AC 29-61276, dated April 12, 1983 to Tampa Electric Company issued pursuant to Section 403, Florida Statutes.

Acceptance of the permit constitutes notice and agreement that the Department will periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement actions for violation of the conditions and requirements thereof.

Sincerely,

John P. Svec P.E.

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

CHF/bjm

Enclosure

cc: Mr. Lynn F. Robinson, P.E., Tampa Electric Company
Mr. Dan Williams, DER Southwest District
Mr. Iwan Choronenko, Hillsborough County Environmental
Protection Commission

Final Determination

Tampa Electric Company

Gannon Coal Yard

Permit Number
AC 29-61276

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

April 12, 1983

Response to Public Comment

AC 29-61276
Tampa Electric Company
Gannon Coal Yard

The company's construction permit application for modification of the existing Gannon coal yard in Hillsborough County, Florida has been reviewed by FDER. Public Notice of the Department's Intent to Issue was published in the Tampa Tribune on March 12, 1983. Copies of the preliminary determination and application were available for public inspection at DER's Southwest District Office in Tampa and the Bureau of Air Quality Management in Tallahassee.

There were no comments from the public as a result of the public notice period.

The final action of the department will be to issue the permit as noticed in the public review process.

PERMITTEE: Tampa Electric
Company

I. D. Number:
Permit Number: AC 29-61276
Date of Issue:
Expiration Date: December 31, 1984

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

I. D. Number:
Permit Number: AC 29-61276
Date of Issue:
Expiration Date: December 31, 1984

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

I. D. Number:
Permit Number: AC 29-61276
Date of Issue:
Expiration Date: December 31, 1984

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 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)
- () 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

I. D. Number:
Permit Number: AC 29-61276
Date of Issue:
Expiration Date: December 31, 1984

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. Construction shall be in accordance with the attached permit application and additional information except as otherwise noted in the following conditions.
2. Reasonable precautions to prevent fugitive particulate emissions at the site, such as coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed soils or coal, shall be taken by the permittee.
3. The hours of operation may be up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

PERMITTEE: Tampa Electric
Company

I. D. Number:
Permit Number: AC 29-61276
Date of Issue:
Expiration Date: December 31, 1984

SPECIFIC CONDITIONS:

4. Visible emissions caused by fugitive or unconfined particulate from coal handling systems and storage areas shall not be greater than 5 percent opacity at 90% of design capacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
5. Visible emissions from each cyclone shall not be greater than 5 percent opacity and 0.03 grains/dscf. The cyclone sources shall be subject to compliance tests for mass emission rate by DER Method 5 (Rule 17-2.700(6)(a)5, FAC).
6. Wet sprays shall be installed at new transfer points of the coal handling system.
7. Dead storage coal pile shall not be used on day to day activities. Its use shall be restricted to those times when normal deliveries cannot supply boiler requirements.
8. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to DER Southwest District Office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.

Issued this 2 day of June, 1983

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION**



VICTORIA J. TSCHINKEL, Secretary

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

| For Routing To District Offices And/Or To Other Than The Addressee | | |
|---|--------------------|----------------|
| To: _____ | Loctn.: _____ | |
| To: _____ | Loctn.: _____ | |
| To: _____ | Loctn.: _____ | |
| From: _____ | Date: _____ | |
| Reply Optional [] | Reply Required [] | Info. Only [] |
| Date Due: _____ | Date Due: _____ | |

TO: Victoria J. Tschinkel
FROM: *for* Clair Fancy *John Svec*
DATE: April 13, 1983
SUBJ: Approval of Attached Air Construction Permit

Attached for your approval and signature is one Air Construction Permit for which the applicant is Tampa Electric Company. The proposed project is for modification of the Gannon Station coal yard in Tampa, Hillsborough County, Florida.

The waiver date, after which the permit would be issued by default, is April 15, 1983.

The Bureau recommends your approval and signature.

CF/pa

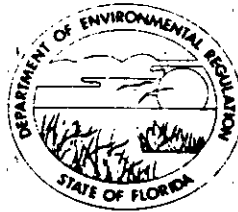
Attachment

APR 13 1983

Office of the Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT

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


May 14, 1987

Enclosed is construction permit No. AC 29-114676 to Tampa Electric Company for a modification to the Gannon Station coal yard to allow an increase in annual coal throughput to the yard to 2.85 million tons. 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:

Dan Williams
Victor San Agustin
Lynn F. Robinson, P.E.

Final Determination

Tampa Electric Company (TECO)
Tampa, Florida
Hillsborough County

Permit Number:
AC 29-114676

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

May 14, 1987

Final Determination

The Technical Evaluation and Preliminary Determination for the modification of the Gannon Coal Yard to increase the annual throughput of coal to the coal yard from 2.4 million tons to 2.85 million tons was distributed on April 8, 1987. The Notice of Proposed Agency Action on the permit application was published in the Tampa Tribune on April 18, 1987. Following a meeting with representatives from the company on April 28, 1987, the Bureau received letters on April 29 and May 7, 1987, requesting a change to a requirement listed as a specific condition in the draft permit. No other comments were received. Day ninety, after which the permit would be issued by default, is June 5, 1987.

Our response to Tampa Electric Company's (TECO) comments are discussed below:

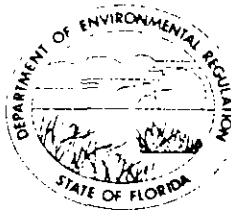
Tampa Electric Company requested a change in Specific Condition No. 5 and a clarification of the rationale for requiring this condition.

Specific Condition No. 5 states that water sprays, chemical wetting agents and stabilizers will be applied to both live and dead storage piles as necessary to maintain an opacity of less than or equal to 5 percent. TECO does not believe that water spray or chemical additives are necessary to meet the opacity limitation that is applicable to the storage pile. TECO's suggested change in wording states that water sprays or chemical wetting agents and stabilizers are acceptable methods to be used on both live and dead storage piles as necessary to maintain an opacity of less than or equal to 5 percent.

The bureau agrees with this request and has reworded Specific Condition No. 5 to reflect the suggested change. The Bureau's rationale for this condition is further clarified by stating that this condition is not to require purchasing or installation of on-site control systems, but to state what potential control methods are acceptable to the Department as corrective measures should the specified opacity standard not be met.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY

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

Permit Number: AC 29-114676
Expiration Date: September 30, 1987
County: Hillsborough
Latitude/Longitude: 27° 54' 25" N
82° 25' 21" W
Project: Gannon Station Coal Yard
Modification

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 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:

For the modification of the Gannon coal yard. Throughput of coal to the coal yard is to be increased from 2.4 million tons per year to 2.85 million tons per year.

The project shall be in accordance with the attached permit application, plans, documents, and drawings, except as noted in the Specific Conditions of this permit.

Attachments:

1. Hillsborough County's comments received on December 23, 1985.
2. Application to Construct Air Pollution Sources, DER Form 17-1.202(1), received January 10, 1986.
3. Hillsborough County's comments received on January 31, 1986.
4. DER's incompleteness letter to TECO, dated February 7, 1986.
5. TECO's response to DER, received on March 3, 1986.
6. DER's incompleteness letter to TECO, dated April 2, 1986.
7. TECO's response to DER, received on January 30, 1987.
8. Hillsborough County's comments received on March 27, 1987.
9. TECO's response to proposed construction permit and technical evaluation and preliminary determination, received on April 29, 1987.
10. TECO's response to proposed construction permit and technical evaluation and preliminary determination, received on May 7, 1987.

PERMITTEE:
Tampa Electric Company

Permit Number: AC 29-114676
Expiration Date: September 30, 1987

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 29-114676
Expiration Date: September 30, 1987

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 29-114676
Expiration Date: September 30, 1987

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 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)
- () 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 29-114676
Expiration Date: September 30, 1987

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. Construction shall be in accordance with the attached permit application and additional information except as otherwise noted in the following conditions.
2. Reasonable precautions to prevent fugitive particulate emissions at the site, such as coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed soils or coal, shall be taken by the permittee.
3. The hours of operation may be up to 24 hours per day, 7 days per week, 52 weeks per year or 8,760 hours per year.

PERMITTEE:
Tampa Electric Company

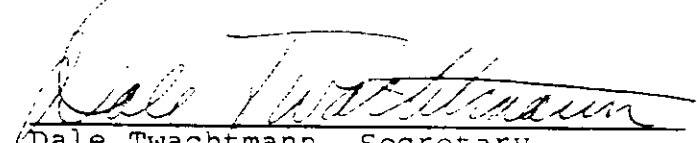
Permit Number: AC 29-114676
Expiration Date: September 30, 1987

SPECIFIC CONDITIONS:

4. Visible emissions caused by fugitive or unconfined particulate from coal handling systems and storage areas shall not be greater than 5 percent opacity at 90% of design capacity demonstrated in accordance with DER Method 9 (Rule 17-2.700(6)(a)9, FAC).
5. 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.
6. Dead storage coal pile shall not be used on day to day activities. Its use shall be restricted to those times when normal deliveries cannot supply boiler requirements.
7. Prior to 90 days before the expiration of this permit, a complete application for an operating permit shall be submitted to the Hillsborough County Environmental Protection Commission office. Full operation of the source may then be conducted in compliance with the terms of this permit until its expiration or until receipt of an operating permit.
8. The annual coal throughput shall not exceed 2.85 million tons per year.

Issued this 19 day of May, 1987

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Dale Twachtmann, Secretary

___ pages attached.

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION



Interoffice Memorandum

TO: Dale Twachtmann
THRU: Howard Rhodes *[Signature]*
FROM: Clair Fancy *[Signature]*
DATE: May 14, 1987
SUBJ: Approval of Air Construction Permit

| FOR ROUTING TO OTHER THAN THE ADDRESSEE | |
|---|-------------|
| To: _____ | Locn: _____ |
| To: _____ | Locn: _____ |
| To: _____ | Locn: _____ |
| From: _____ | Date: _____ |

RECEIVED

MAY 18 1987

Office of the Secretary

Attached for your approval and signature is the air construction permit for Tampa Electric Company (TECO) to authorize the modification of the existing Gannon Station coal yard at the applicant's existing facility in Tampa, Hillsborough County, Florida. A meeting was held on April 28, 1987, with representatives of TECO and the Bureau to resolve any controversies associated with the proposed permit. TECO's comments are addressed in the Final Determination.

Day 90, after which the permit would be issued by default, is June 5, 1987.

The bureau recommends your approval and signature.

CF/ks

Attachment



April 23, 1987

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

Re: F.J. Gannon Coal Yard
AC 29-114676
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 April 18, 1987.

Please call me if you have any questions.

Sincerely,

Jerry L. Williams
Director
Environmental

JLW/jst/022/LL

Attachment

DER
APR 27 1987
3AQM

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
APRIL 18, 1987

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 18th day
of APRIL A.D. 19 87

Leticia A. Realta

(SEAL)

Notary Public, State of Florida
My Commission Expires Nov. 23 1990

Department of Environmental
Regulation
Notice of Intent
The Department gives notice of its intent to issue a permit to Tampa Electric Company to construct a modification to the Gannon Station coal yard to allow an increase in annual coal throughput to the yard to 2.85 million tons in Tampa, Hillsborough County, Florida.

A determination of Best Available Control Technology was not required.

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:

DER Bureau of Air Quality Management
Twin Towers
2600 Blair Stone Rd.
Tallahassee, Florida
32399-2400

DER Southwest District
7601 Highway 301 North
Tampa, Florida 33610
Hillsborough County
Environmental
Protection Commission
1900 9th Avenue
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.

2153

4/18/87

OF
HILLSBOROUGH COUNTY

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) 272-5980

DER

MAR 27 1987

BAQM

MEMORANDUM

Date March 26, 1987

To Cleve Holliday thru Bill Thomas

From Victor San Agustin thru Jerry Campbell *VSA JC*

Subject: Permit Modification to TECO's Gannon Coal Yard

The purpose of this memo is to request that you incorporate our comments to the above permit modification project.

Due to the bare nature of the source description page of AC29-61276, we recommend that description page of permit AC29-114676 be drafted in a manner similar to the existing operation permit AO29-94044. For the source description page, we suggest the following wording:

"For the modification of the bituminous coal yard serving the Gannon station units one through six. The modification is for the increase of coal through put rate from 2.4 million tons per year to 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. This includes but is not limited to the following:

| Source Designator | Particulate Control Method | Efficiency Rating at Design Capacity | Maximum Design Material Handling Rate (TPH) |
|---------------------------------|----------------------------|--------------------------------------|---|
| 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 | Windshield | 25% | 1500 |
| East Hopper to Feeder | - - | - - | 1500 |

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|-----------------------------------|---|--|
| 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 |
| Rail Car 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 | Wet Sprays | 50% | - - |
| Dead Coal Stockpile | Wet Sprays and Compaction | 70% | - - |
| 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 |

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|-----------------------------------|---|--|
| Conveyors G1/G2 to Hammermill Crushers | Enclosure | 70% | 1600 |
| Hammermill Crusher 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 | Wet Sprays | 50% | - - |

Location: Port Sutton Road, Port Sutton

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

Replaces Permit No: AC29-61276 & A029-94044

As for the specific conditions, two changes are proposed. The rest of the conditions should stay the same as AC29-61276.

Add a Specific Condition 9. which should be worded as:

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

Change Specific Condition 7. to read as follows:

"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 system requirements. All stockpile maintenance shall be in accordance with the plan stated in the application for A029-94044. Both live and dead storage coal piles shall be watered on an as needed basis to maintain no visible emissions from the coal piles."

Add a specific condition 10 which states,

"Within 30 days of achieving the capability of watering the live and dead coal stockpiles or at least 60 days prior to the expiration date of this permit whichever occurs first, the permittee shall submit a completed Certificate of Completion of Construction form and three copies with original seals and signatures to the Environmental Protection Commission of Hillsborough County."

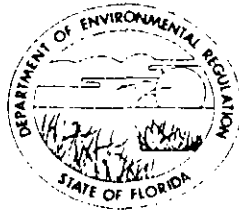
VSA/ch

cc: Bill - BSAW
B. Thomas (302)

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

October 25, 1985

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

Dear Mr. Autry:

Re: Hillsborough County - AP
Gannon Coal Yard

Attached is Permit No. A029-94044. Should you object to the issuance of this permit or the specific conditions of the permit, you have a right to petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes. The petition must be filed within fourteen (14) days from receipt of this letter. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code, (copies attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301. Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department.

In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have an opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witnesses and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.

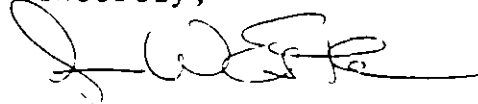
If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and

Mr. A. Spencer Autry
Tampa, FL

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place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

Sincerely,



James Wm. Estler
Air Permitting Engineer

JWE/js

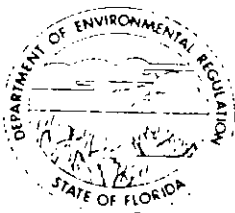
Attachment: as stated

cc: HCEPC

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

DR. RICHARD D. CARRITY
DISTRICT MANAGER

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No.: A029-94044
County: Hillsborough
Expiration Date: 9-25-90
Project: Gannon 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 the bituminous coal yard serving the Gannon station units one through six. 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. This includes but is not limited to the following:

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling 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 | Windshield | 25% | 1500 |

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-94044
Project: Gannon Coal Yard

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|----------------------------------|---|---|--|
| 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 |
| Rail Car 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/Certification No.: A029-94044
Project: Gannon Coal Yard

| <u>Source Designator</u> | <u>Particulate Control Method</u> | <u>Efficiency Rating at Design Capacity</u> | <u>Maximum Design Material Handling Rate (TPH)</u> |
|--|--|---|--|
| 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 Crusher 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

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

Replaces Permit No.: AC29-61276

DER Form 17-1.201(7) Page 3 of 10.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-94044
Project: Gannon 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/Certification No.: A029-94044
Project: Gannon 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

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Project: Gannon 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 403.111, 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 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/Certification No.: A029-94044
Project: Gannon Coal Yard

14. (con't)

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 five percent opacity (Section 17-2.650(2)(c)11., 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 rail car 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.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-94044
Project: Gannon Coal Yard

SPECIFIC CONDITIONS (con't):

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 system requirements. All stockpile maintenance shall be in accordance with the plan stated in the application.
 7. The annual coal throughput shall not exceed 2.4 million tons per year.
 8. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter from vehicular movements in accordance with the provisions listed in Section 17-2.610(3), F.A.C.
 9. The Hillsborough County Environmental Protection Commission shall be notified 15 days prior to compliance testing.
 10. Submit for this facility, each calendar year, on or before 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 fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.
- Duplicate copies of all reports shall be submitted to the Hillsborough County Environmental Protection Commission.
11. An application to renew this operating permit shall be submitted to the Hillsborough County Environmental Protection Commission 60 days prior to expiration date of this permit.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-94044
Project: Gannon Coal Yard

SPECIFIC CONDITIONS (con't):

12. Operation and Maintenance plan for particulate control (Section 17-2.650(2), F.A.C.)

A. Process Parameters:

1. For all sources the operation schedule: 24 hours/day; 7 days/week; 52 weeks/year
2. Equipment data:
 - i. Conveyor hoods consist of corrugated aluminum.
 - ii. Transfer point enclosures consist of carbon steel.
 - iii. Wet dust suppression surfactant is Compound JB from Dust Suppression Systems, Inc. of Kansas City, Missouri.
 - iv. The wet dust suppression system use a 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

1. Lubricate crankpin bearing on the proportioning pump every 100 hours of operation or monthly.
2. Drain and refill proportioning pump gear reducer lubricant at intervals of 1000 hours.
3. The chutework system for the transfer points are visually inspected.

Three Months

1. Inspect nozzles for proper operation. Clean or replace if necessary.
2. Flush strainers in spray flow control enclosure. A blowdown valve is provided for easy cleaning of strainer screen.
3. Clean strainers located at each spray manifold assembly and spray header assembly.

Six Months

1. Inspect nozzles for proper operation. Clean or replace if necessary.
2. Clean strainer in spray nozzle housing by removing 1" brass hexagonal plug. Spray nozzle housings are located on spray manifold assemblies at application points and hold the spray jets. (Necessary only where hard water is used in system.)

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-94044
Project: Gannon Coal Yard

SPECIFIC CONDITIONS (con't):

Nine Months

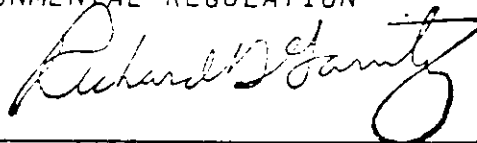
Repeat the procedure required at three months.

Twelve Months

1. Repeat maintenance procedure for six months.
2. Inspect hose assemblies and rotary ball joints for wear or potential leaks.

Issued this 25 day of October
1985

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



Richard D. Garrity, Ph.D.
District Manager

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on October 29, 1985 to the listed persons.

Clerk Stamp

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.

Jan Scherata 10/29/85
Clerk Date