

Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

In the Matter of an Application
for permit by:

DER File No.: A029-252615
County: Hillsborough

Mr. Patrick Ho
Manager - Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601

Enclosed is Permit Number A029-252615 to operate the combustion turbine at your F.J. Gannon Station located on Port Sutton Road in Tampa, issued pursuant to Section 403, Florida Statutes. Please read this new permit thoroughly as there are changes from the previous permit. Also please note that Rule references have changed from 17-XXX to 62-XXX due to a renumbering of the rules. There is no change to the content of the rules.

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 the 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;
- (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 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.

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 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.

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



David R. Zell
Air Permitting Engineer
Phone (813) 744-6100 Ext. 412

DRZ/
Attachment

copy to:
Environmental Protection Commission of Hillsborough County

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on AUG 31 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.


Clerk

AUG 31 1994
Date



Department of Environmental Protection

Lawton Chiles
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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. : AO29-252615

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. : AO29-252615

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. : AO29-252615

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

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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.

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Tampa Electric Company

PERMIT/PROJECT:
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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

ATTACHMENT - GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

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

3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver 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, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

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

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

GENERAL CONDITIONS:

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

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

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

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

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

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

10. The permittee agrees to comply with changes in Department rules 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 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

GENERAL CONDITIONS:

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

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 (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates 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 corrected promptly.