

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

RICHARD D. GARRITY, PH.D.
DISTRICT MANAGER

August 24, 1984

Mr. John B. Ramil
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

Dear Mr. Ramil:

Re: Hillsborough County - AP
Gannon Station Turbine

Attached is Permit No. A029-85099. 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.

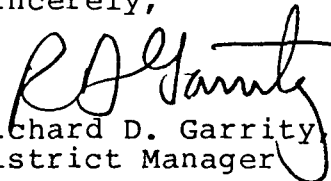
If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and

Mr. John B. Ramil
Tampa Electric Company

File No. A029-85099
Page Two

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,


Richard D. Garrity, Ph.D.
District Manager

JE/rb

Attachment: as stated

cc: HCEPC

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DEPARTMENT OF ENVIRONMENTAL REGULATION



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PERMITTEE:

Mr. John B. Ramil
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No.: A029-85099
County: Hillsborough
Expiration Date: July 25, 1989
Project: Gannon Station 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 a part hereof and specifically described as follows:

For the operation of a self contained combustion turbine generating unit fired on No. 2 fuel oil. This unit is rated at 14 MW.

Location: Port Sutton Road, Tampa

UTM: 17-360.0 E 3087.0 N NEDS NO: 0040 Point ID: 07

Replaces Permit No.: A029-19057

DER Form 17-1.201(7) Page 1 of 8.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: AO29-85099
Project: Gannon Station Turbine

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 Number: A029-85099
Project: Gannon Station Turbine

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/Certification No: A029-85099
Project: Gannon Station Turbine

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.: A029-85099
Project: Gannon Station Turbine

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. Test the emissions for the following pollutant(s) at intervals of 12 months from the date March 15, 1984 and submit 2 copies of test data to the Air Section of the Hillsborough County Environmental Protection Commission Office within forty five days of such testing (Section 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- () Particulates
- () Fluorides
- (X) Opacity

- () Sulfur Oxides
- () Nitrogen Oxides
- () Hydrocarbons
- () Total Reduced Sulfur

*Fuel analysis may be submitted for required sulfur dioxide emission test.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-85099
Project: Gannon Station Turbine

SPECIFIC CONDITIONS (con't):

2. Source shall be tested in accordance with EPA Method 9. The test interval shall be for a 30 minute duration.

3. Compliance testing shall be conducted with $\pm 10\%$ of 14 MW. The amount of fuel consumed shall be included in the test results.

4. The Hillsborough County Environmental Protection Commission shall be notified in writing 15 days prior to compliance testing.

5. 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.

6. This unit must be fired on No. 2 fuel oil with a maximum sulfur content of 0.3%.

7. 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)

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

A. Process Parameters:

1. Fuel: Distillate Fuel Oil #2
2. Average consumption rate: 1070 gal/hr.
3. Maximum consumption rate: 1885 gal/hr.
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.

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-85099
Project: Gannon Station Turbine

SPECIFIC CONDITIONS (con't):

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 louvre 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-annually 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.: A029-85099
Project: Gannon Station Turbine

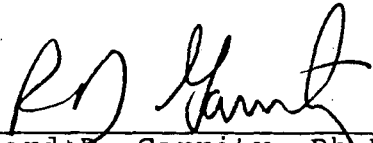
SPECIFIC CONDITIONS (con't):

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 Hillsborough County Environmental Protection Commission upon request (Subsection 17-2.650(2)(g)5., F.A.C.).

Issued this 24 day of Aug.
1987.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager

A029-85099
PAID APR 27 1984

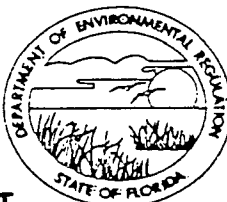
STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

D. E. R.

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

APR 02 1984



RECEIVED

MAR 27 1984

U.C.E.P.A.

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

SOUTH WEST DISTRICT

TAMPA APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Gannon Cranking Unit Renewal of DER Permit No. A029-19057

Company Name: Tampa Electric Company County: Hillsborough

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

F.J. Gannon Station Gas Turbine

Source Location: Street: Port Sutton Road City: Tampa

UTM: East 360,000 m North 3,087,500 m

Latitude: 27° 5' 4" 25" N. Longitude: 82° 2' 5" 22" W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach. N/A
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No N/A
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

DER Form 17-1.202(4)
Effective November 30, 1982

Page 1 of 2

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process: N/A

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr) ²
	Avg/hr ¹	Max/hr ²	
No. 2 Fuel Oil	25.48 bbl/hr	44.88 bbl/hr	256.5

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 365; if seasonal, describe This peaking unit is used only under extreme conditions, and therefore, the hours of operation may vary greatly based upon weather and load conditions.

The undersigned owner or authorized representative*** of Tampa Electric Company is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

John B. Ramil
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
John B. Ramil, Manager, Environmental Planning
 Typed Name and Title
P.O. Box 111
 Address
Tampa, Florida 33601
3-26-84 City Date
(813) 228-4110 Telephone No.
 State Zip

ER Form 17-1.202(4)
 Effective November 30, 1982

- 1983 Data
- Design characteristics

Page 2 of 2

STATE OF FLORIDA COUNTY OF HILLSBOROUGH
 SWORN TO AND SUBSCRIBED before me this 26th
 day of March, 1984.

NOTARY PUBLIC STATE OF FLORIDA AT LARGE
 MY COMMISSION EXPIRES NOV 14 1985
 Notary Public
 BONDED THRU GENERAL INS. UNDERWRITERS
 Commission Expires _____

Best Available Copy



RECORD OF VISIBLE EMISSIONS

Plant F J Cannon Station

Date 3-15-84

Wind Direction and Speed EAST 5-10

Stack GAS TURBINE

Time 0910 - 1010

Observer MARTIN DUFF

min. \ sec.	0	15	30	45
0	0	0	0	0
1	0	0	0	0
2	0	0	0	0
3	0	0	0	0
4	0	0	0	0
5	0	0	0	0
6	0	0	0	0
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min. \ sec.	0	15	30	45
30	0	0	0	0
31	0	0	0	0
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Sum of # Recorded 0

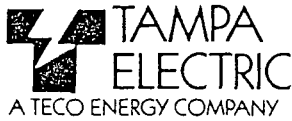
Total # of Readings 240

Opacity = $\frac{\text{Sum of \# Recorded}}{\text{Total \# of Readings}}$ = 0

Remarks Wind Speed 17 mph

Wind direction ENE

Ambient temperature 68°F



March 15, 1984

TO WHOM IT MAY CONCERN:

Please be advised that John B. Ramil, Manager of Environmental Planning, is the authorized representative of Tampa Electric Company concerning matters with which this permit application deals.

Very truly yours,

Heywood A. Turner
Senior Vice President
Production

HAT:tb

State of Florida



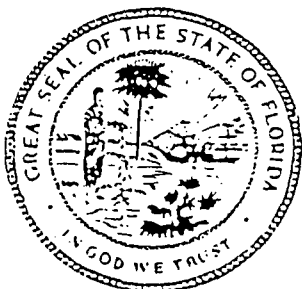
Department of State

I certify from the records of this office that TAMPA ELECTRIC COMPANY, is a corporation organized under the laws of the State of Florida, filed on April 18, 1949.

The charter number for this corporation is 157782.

I further certify that said corporation has filed all annual reports and paid all annual report filing fees due this office through December 31, 1982, and its status is active.

Given under my hand and the
Great Seal of the State of Florida,
at Tallahassee, the Capital, this the
6th day of December, 1982.



CER 101

A handwritten signature in cursive script, appearing to read "George Firestone".

George Firestone
Secretary of State