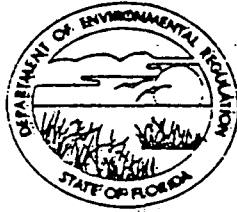


A029-160272

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



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E.P.C. of H.C.

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

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: Air Pollution Renewal of DER Permit No. A029-85099

Company Name: Tampa Electric Company County: Hillsborough

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

F.J. Gannon Station Combustion Turbine

Source Location: Street: Port Sutton Road City: Tampa

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

Latitude: 2 7° 5 4' 2 5"N. Longitude: 8 2° 2 5' 2 2"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. Submitted 03/10/88
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. Not Applicable
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No Not Applicable
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach. Will be submitted prior to deadline.

D.E.R.

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TAMPA

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process: Not Applicable

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): Not Applicable

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	BBLs/HR Max/hr**	
No. 2 Fuel Oil	0.67 ⁺	44.88	256.5

D. Normal Equipment Operating Time: hrs/day 24; days/wk 7; wks/yr 52;
hrs/yr (power plants only) 8760; if seasonal, describe _____

⁺Average value, 1986 and 1987 emissions inventories

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

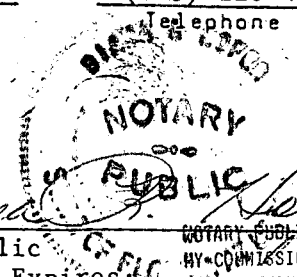
**Units: Natural Gas-MMCF/hr;
Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

Jerry L. Williams
Signature, Owner or Authorized Representative
(Notarization is mandatory)
Jerry L. Williams, Director-Environmental
Typed Name and Title
P.O. Box 111
Address
Tampa City FL State 33601 Zip
2/01/89 Date (813) 228-4111 Telephone No.

STATE OF FLORIDA
COUNTY OF HILLSBOROUGH

Sworn to and subscribed before me this 1st
day of February, 1989.


Quana
 Notary Public
 Commission Expires NOV 14, 1989
 BONDED THRU GENERAL INS. UND.

F.J. GANNON STATION - COMBUSTION TURBINE

Operation and Maintenance Plan

The combustion turbine uses number 2 fuel oil and is typically used only in emergency situations. The unit may be started at the plant or remotely from the generation control center.

The combustion turbine is very important to the overall reliability of the electrical system. Because of its importance, a thorough preventive maintenance plan is followed to assure service when needed from the combustion turbine. The preventive maintenance plan requires that a mechanic each month check:

- condition of inlet air filters
- tightness of louvre arm
- oil and fuel leaks
- belts for condition and tension
- air compressor fan condition
- the CO₂ fire protection system
- to insure that the batteries are properly charged
- lube oil flow and level
- cooling water level
- radiator fins for damage or blockage
- motors and brushes
- oil and fuel pumps
- lube oil filter pressure differential
- compartment heaters

If any problems are detected in the above equipment, the problem is either fixed immediately or a job request form is filled out to have the repair scheduled for a later time.

The maintenance plan also requires that mechanics monthly:

- lubricate fan bearings
- clean water pump strainer

The preventive maintenance plan requires a mechanic to semi-annually:

- change oil in gear reducer and in diesel engine crankcase
- lubricate pump seal with grease
- remove and clean fuel oil line strainers
- change oil, fuel, and air filters
- clean or replace water filter
- clean crankcase breather
- check water level alarm

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Each time the combustion turbine is started, an operator inspects the unit for oil and fuel leaks, and checks the cooling water level. The operator also checks the exhaust stack for excess emissions. The combustion turbine has alarms on all of the critical operating components to alert plant operators of any major problems during operation.

Fuel flow is measured by a flow integrater and reported in the yearly emissions inventory.

LL032.DOC

D. E. R.
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SOUTHWEST DISTRICT
TAMPA

2- 194325

CHECK NO.

194325



POST OFFICE BOX 111
TAMPA, FLORIDA 33601

63-27
631

PAY:

SEVEN HUNDRED FIFTY AND NO/100 DOLLARS

DATE

01 27 89

\$ ***** 750.00

TO
THE
ORDER
OF
FLORIDA DEPT OF ENVIRONMENTAL
REGULATION

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

NCNB NATIONAL BANK OF FLORIDA • TAMPA, FLORIDA

⑈ 194325⑈ ⑆063100277⑆ 3600401262⑈

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

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
GANNON	012489	513953	750.00		750.00
F. J. Gannon Station Combustion Turbine					
				DO NOT U.S. MAIL HOLD FOR SEND TO <u>CALL</u>	
				34845	
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME	TOTAL AMOUNT	
5- 194325	012789	FLO004	FLORIDA DEPT OF ENVIR	750.00	

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D. E. R.

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SOUTHWEST DISTRICT
TAMPA

2-194607

CHECK NO.

194607



POST OFFICE BOX 111
TAMPA, FLORIDA 33601

63-27
631

PAY:

THREE HUNDRED FIFTY FIVE AND NO/100 ** 01 30 89 \$ *****355.00
DOLLARS *****

TO ENVIRONMENTAL PROTECTION
THE COMMISSION OF HILLSBOROUGH COU
ORDER OF

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

NCNB NATIONAL BANK OF FLORIDA • TAMPA, FLORIDA

⑈ 194607 ⑈ ⑆ 063100277⑆ 3600401262 ⑈

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

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
GANNON	012489	514373	355.00		355.00
F. J. Gannon Station Combustion Turbine					
				DO NOT U.S. MAIL HOLD FOR SEND TO <u>CALL</u>	
				34845	
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME	TOTAL AMOUNT	
3-194607	013089	ENV901	ENVIRONMENTAL PROTECT	355.00	

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