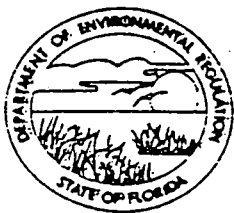


STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

A029-160258

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

D.E.R.



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BOB GRAHAM
GOVERNOR

FEB 03 1989

FEB 2 1989

VICTORIA J. TSCHINKEL
SECRETARY

SOUTHWEST DISTRICT
TAMPA

E.P.C. of H.C.

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. A029-80046

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 Unit 5 and 6 Fly Ash Silo

Source Location: Street: Port Sutton Road City: Tampa

UTM: East 360,061 North 3,087,459

Latitude: 2 7° 5 4' 2 3"N. Longitude: 8 2° 2 5' 1 8"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 11/21/88
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. Bag maintenance and replacement.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
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.

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)~~: Material Handling Rate = 13.1 tons/hr (Calculated)

C. Fuels Not Applicable

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	

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

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

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 FL 33601
City State Zip
2/01/89 (813) 228-4111
Date Telephone No.

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

Page 2 of 2

STATE OF FLORIDA
COUNTY OF HILLSBOROUGH

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

Sharon K. Hoyer
NOTARY PUBLIC
NOTARY PUBLIC STATE OF FLORIDA
Commission Expires: NOV 14, 1989
BONDED THRU GENERAL INS. UND.

F.J. GANNON STATION - UNITS 5 & 6 FLY ASH SILO

D. E. R.

Operation and Maintenance Plan

FEB 03 1989

SOUTHWEST DISTRICT
TAMPA

INTRODUCTION

The steel flyash silo for Units 5 & 6 is an integral part of the particulate control/collection system. Flyash that is collected from Units 5 and 6 ESP hoppers is transferred dry to the 25 feet diameter, 50 feet high silo. The silo acts as a temporary storage for the flyash prior to being fed into tanker-type trucks, thence transported to an offsite consumer.

Gannon's flyash is used as an ingredient in the manufacturing of cement.

PARTICULATE CONTROL EQUIPMENT DATA

Units 5 and 6 flyash silo is equipped with a bag-type dust collector for the control of particulate matter. The dust collector is automatically actuated during conveying, aerating or unloading operations.

Important design information and data applicable to the particulate control system are listed below:

BAGHOUSE DATA

Manufacturer	United States Filter Corporation
Model name and number	Mikro-Pulsaire Unit #1F3-24
Design flow rate (ACFM)	11,300
Efficiency (% of weight)	99.9
Pressure drop (inch H ₂ O)	2 (Clean), 5 (Dirty)
Gas Temperature (°F)	300 (average)
Air to cloth ratio	5:1
Bag material	Polyester HCE
Filter cleaning method	Pulse Jet

BAG FILTER CLEANING

Dust which accumulates on the bags is removed by a timed pulse of compressed air supplied at 18.4 scfm and 100 psig.

The filters are cleaned in sequence on a continuous basis whenever the baghouse is being operated, that is, whenever aeration is provided or dust is entering the silo.

Filters are changed whenever the pressure drop between inlet and outlet of the bag filter is approximately 5 inches of water.

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SILLO SYSTEM PERFORMANCE PARAMETERS

The following is a list of operating conditions that can be monitored from the flyash silo control panel:

1. Conveying blower high differential temperature
2. Conveying blower filter clogged
3. Flyash system high pressure
4. Silo filter bag failure
5. Silo level
6. Airlock sequency failure

The pressure drop between the inlet and outlet of the baghouse is measured with a manometer that is connected to the baghouse.

MAINTENANCE AND INSPECTION SCHEDULES

Routine on-line preventive maintenance, daily checks for leakage, daily checks on baghouse pressure drops and monitoring of the control panel for abnormal operating conditions, ensure proper operations of the silo system. Should these procedures indicate repairs are necessary, maintenance job requests are initiated. All repair information is stored for a minimum of two years.

The pressure differential between the inlet and outlet of the bag filter is read 3 times daily. These readings are recorded in an operator's log book kept in the control room, and are retained for at least two years.

D. E. R.

FEB 03 1989

SOUTHWEST DISTRICT
TAMPA

2-194614

CHECK NO.

194614



POST OFFICE BOX 111
TAMPA, FLORIDA 33601

63-27
631

PAY:

SEVEN HUNDRED FIFTY AND NO/100 DOLLARS

DATE

01 30 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

⑈ 194614 ⑈ ⑆ 063100277⑆ 3600401262⑈

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

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
GAN 586	012489	513754	750.00		750.00
F. J. Gannon Station Unit 5 and 6 Fly Ash Silo					
				DO NOT U.S. MAIL	
				HOLD FOR	SEND TO <u>CALL</u>
				348.45	
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME	TOTAL AMOUNT	
5-194614	013089	FLC004	FLORIDA DEPT OF ENVIR	750.00	

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D.E.R.

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SOUTHWEST DISTRICT
TAMPA

E.P.C. of H.C.

2-194608

CHECK NO.

194608



POST OFFICE BOX 111
TAMPA, FLORIDA 33601

63-27
631

PAY:

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

DATE

01 30 89

TO
THE
ORDER
OF

ENVIRONMENTAL PROTECTION
COMMISSION OF HILLSBOROUGH COU

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

NCNB NATIONAL BANK OF FLORIDA • TAMPA, FLORIDA

⑈194608⑈ ⑆063100277⑆ 3600401262⑈

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

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
647 588	012489	514376	355.00		355.00
F. J. Gannon Station Unit 5 and 6 Fly Ash Silo					
DO NOT U.S. MAIL HOLD FOR SEND TO <u>CALL</u> 34845					
CHECK NO.	DATE	VENDOR NO.	VENDOR NAME	TOTAL AMOUNT	
5-194608	013089	ENV901	ENVIRONMENTAL PROTECT	355.00	

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