STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



A029-25'0/40

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

0040

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

If major alterations have occurred, the applicant should complete the Standard Air

3/2	494
•	174

Permit.	Applicatio	n form.		,
Source	Type: <u>· Ai</u>	r Operations	Renewal of DER Permit No.	A029-160259
Company	Name: Tar	mpa Electic Company	County: <u>Hillsborough</u>	
Kiln No	. 4 with V	ific emission point source(s) enturi Scrubber; Peaking Unit ation Units 1-4 FlyAsh Silo (t No. 2, Gas Fired):	ian (i.e., Lime
Saurce	Location:	Street: Port Sutton Road	City: Tam	npa
	uTM: East	360,071	North 3,087,449	
No.	Latitude:	2 7° 5 4' 2 2"N.	Longitude: <u>8 2° 2 5</u> '	<u>1 9 "Y.</u>

- 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 [X] 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 2/8/94
- 5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [] Yes [X] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
- 6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [] No
- 7. Has the annual operating report for the last calendar year been submitted? [X] Year [] No If no, please attach.

Submitted 2/28/94

ύξη Form 17-11202(4) Effective November 30, 1982

Control of March

Page 1 of 2

Description :	Contaminant Typa ≒W-t	Utilization Rate lbs/hr
	·	
B. Product Weight (lbs/	hr): <u>Materials Handling Rate = 1</u>	4.4 tons/hr (calculated)
C. Fuels Not Applica	ble	
Type (Be Specific)	Consumption* Avg/hr+ Hax/hr>+	Maximum Heat Input (MM8TU/hr)
<u> </u>		
ura/yr (power plants	s only) 8760; if seasonal, describ	e
fully aware that the starate an air pollution sou belief. Further, the u pollution control facil: 403, Florida Statutes, erstands that a permit,	ration P.O. Box 111	for a renewal of a permit to the best of his knowledge operate the pollution source with the provisions of Chapor of the Department. He also a be non-transferable and in the permitted facility. A contact the permitted facility. A contact the permitted facility of Authorized Representative ation is mandatory) Manager, Environmental Plant of Name and Title
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ajamanji ka ji

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Professional Engineer in Florida (as required by Subsection 17-4.05(3), F.A.C.)

There is reasonable assurance, in my professional judgement, that the pollution control facilities*, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and the regulations of the department.

Signed:	Sur	M.	Costel	lo
Date: 4/2	7/94		Telephone N	Jo.: 813/228-4111
Eric M. Costello				
Name (Please	type)			31075
				Affix Seal Here
Tampa Electric Com	pany			- Committee
Company Name				— "************************************
P.O. Box 111, Tamp	a, Florida 3	3601		_
Mailing Addres	s (Please ty	pe)		

Florida Registration No.: 31079

^{*} Air Operations Source - F.J. Gannon Units 1 - 4 Flyash Silo Permit Renewal.

F.J. GANNON STATION UNITS 1 - 4 FLYASH SILO

Operation and Maintenance Plan

INTRODUCTION

The steel flyash silo for Units 1 - 4 is an integral part of the particulate control/collection system. Flyash that is collected from Units 1 - 4 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 1 - 4 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 Allen-Shermann-Hoff Corp. Model name and number Flexkleen 84 WRW C112IIG Design flow rate (ACFM) 4696 (total) Efficiency (% of weight) 99.8 Pressure drop (inch H₂0) 2 (clean), 5 (dirty) Gas temperature (°F) 300 (inlet), 350 (outlet) (averages) Air to cloth ratio 2:1 Bag material Nomex 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, whatever 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.

SILO 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.
- 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.



TO WHOM IT MAY CONCERN:

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

Very Truly Yours,

William N. Cantrell

Vice President

Energy Resources Planning

sn/GG399

STATE OF FLORIDA

A029-160259

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2500 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301

UER Form 17-1.202(4)

Effective November 30, 1982



RECEIVED

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

FEB 2 1989

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

Perm	it.Application Form.	•			
Sour	ce Type: Air Pollution	Renewal o	f DER Permit No.	A029-80048	
Comp	any Name: Tampa Electric Compa	ny County: _	County: Hillsborough		
Kiln	tify the specific emission point No. 4 with Venturi Scrubber; Pe J. Gannon Station Units 1-4 Fly	aking Unit No. 2, Ga		ion (i.e., Lime	
Sour	ce Location: Street: Port Sut	ton Road	City:Ta	ımpa	
	UTM: East360,071	North	3,087,449		
	Latitude: 2 7 • 5 4 • 2 2	"N. Longitud	e: <u>8 2° 2 5</u>	<u>1</u> 9"".	
			•		
•	Attach a check made payable to twith operation permit fee sche 17-4.05. Have there been any alterations If minor alterations have occurr Attach the last compliance test previously. Submitted 1: Have previous permit conditions	to the plant since led, describe on a sereport required per 1/14/88	Florida Adminis last permitted? [eparate sheet and	trative Code Rule [] Yes [X] No attach. as if not submitted	
5.	separate sheet and attach. Has there been any malfunction o rent permit? [x] Yes [] No and what action was taken on a s	If yes, and not prev	viously reported,	give brief details atenance and	
6.	Has the pollution control equip ciency last permitted by the Dep		d to preserve th		
7.	Has the annual operating report $[x]$ No. If no, please attach.			e. ::,*	

A. Raw Materials and Ch	emical Used	111 , 001 1100634	. NOT APPII	.cable	
Description	Type	Contaminant	%Wt Rat	Utilization e lb	s/hr
8. Product-Weight-(-168/	(hr): Materi	al Handling Ra	te = 14.4 to	ns/hr (Calculate	 d)
C. Fuels Not Applica					
Type (Be Specific)	Avg/hr*	Consumption⇒ Ma	x/hr**	Maximum Heat Input (MM8TU/h	.)
				<u>.</u>	
D. Normal Equipment Ope	rating Time:	hrs/day 24	; days/wk	7 ; wks/yr 52	
hrs/yr (power plants	only) 8760				-
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MY COMMISSION EXP. NOV 14,1989 BONDED THRU GENERAL INS. UND.

F.J. GANNON STATION - UNITS 1-4 FLY ASH SILO

Operation and Maintenance Plan

INTRODUCTION

The steel flyash silo for Units 1 thru 4 is an integral part of the particulate control/collection system. Flyash that is collected from Units 1 thru 4 ESP hoppers, is transferred dry to the 30 feet diameter, 45.5 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 1 thru 4 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:

BACHOUSE DATA

Manufacturer Allen-Shermann-Hoff Corp. Model name and number Flexkleen 84 WRW C112IIG Design flow rate (ACFM) 4696 (Total) Efficiency (% by weight) 99.8 Pressure drop (inch H,0) 2 (Clean), 5 (Dirty) Gas Temperature ("F) 300 (inlet), 350 (outlet) (averages) Air to cloth ratio 2:1 Bag material Nomex 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.

RECEIVED

FEB 2 1989

E.P.C. of H.C.



SILO SYSTEM PERFORMANCE PARAMETERS

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

- 1. Conveying blower "A" high differential temperature
- 2. Conveying blower "A" filter clogged
- 3. Fly ash system "A" high pressure
- 4. Silo filter bag "A" failure
- 5. Conveying blower "B" high differential temperature
- 6. Conveying blower "B" filter clogged
- 7. Fly ash system "B" high pressure
- 8. Silo filter bag "B" failure
- 9. Silo high level
- 10. Spare conveying blower high differential temperature
- 11. Spare conveying blower filter clogged
- 12. Airlock sequence failure
- 13. PC failure

Operating conditions that can be monitored from the fly ash silo control panel are as follows:

- 1. High differential temperature/low inlet pressure aeration blowers "A" and "B"
- 2. Aeration heater "A" overheat
- 3. Aeration heater "B" overheat
- 4. Vent filter "west" bag failure
- 5. Vent filter "east" bag failure
- 6. Silo full
- 7. Silo 4/5 full
- 8. Silo Aeration Temperature low

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.

D. E. R.

FEB 0 3 1989

SOUTHWEST DISTRICT TAMPA

LL026.DOC

2-194616 CHECK NO.

63-27

631

POST OFFICE BOX 111 194610 TAMPA, FLORIDA 33601

PAY:

SEVEN HUNDRED FIFTY AND NO/100 DOLLARS DL 30 89

TO THE

FLORIDA DEPT OF ENVIRONMENTAL REGULATION

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

ORDER OF

NCNB NATIONAL BANK OF FLORIDA . TAMPA, FLORIDA

#194616# #1063100277# 3600401262#

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

INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
JAN 1-4	012459 F. J.	513957 Gannon St	750.00 cation Units 1-4	Fly Ash Silo	750.00
				DO NOT FOLD FOR S	U.S MAIL CALL
				347	45
CHECK NO. 194525	DATE -013559	VENDOR NO.	VENDOR N	AME TOFENVIR	TOTAL AMOUNT

TAMPA ELECTRIC COMPANY • P.O. BOX 111 TAMPA, FL. 33601 • (813) 228-4111

RECEIVED

E.P.C. of H.C.

D.E.R.

553031969

SOUTHWEST DESTRICT ASSAT

2- 194610 CHECK NO.

194610

POST OFFICE BOX 111 TAMPA, FLORIDA 33601

DATE

THREE HUNDRED FIFTY FIVE AND NO/100 ## 01 30 89 DULLARS *****************

ENVIRONMENTAL PROTECTION TO COMMISSION OF HILLSBORDUGH COU THE

ORDER OF

PAY:

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

NCNB NATIONAL BANK OF FLORIDA . TAMPA, FLORIDA

#194610# #1063100277# 3600401262#

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

1	INVOICE NO.	DATE	VOUCHER	GROSS AMOUNT	DISCOUNT	NET AMOUNT
	GAN 1-4	012489 F. J.	514379 Gannon Sta	355.00	-	355.0€
				The state of the s		U.S MAIL SEND TO CALL 4845
t	CHECK NO. 194510	DATE 013539	VENDOR NO.	VENDOR N		TOTAL AMOUNT

TAMPA ELECTRIC COMPANY • P.O. BOX 111 TAMPA, FL. 33601 • (813) 228-4111

D.E.R.

FEB 0 3 1969

SOUTHWEST DISTRICT

MECEIVED

FEB 2 1989

E.P.C. of H.C.

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

August 20, 1987

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

Dear Mr. Autry:

The Department is in receipt of your request to amend DER permit no. A029-80048. The following changes are hereby made in the permit:

Specific Condition No. 2 -

FROM:

The compliance test shall be conducted using EPA Method #9 (opacity). The Method #9 test interval on this source shall be thirty (30) minutes. Two copies of the test data shall be submitted to the Air Section of the Hillsborough County Environmental Protection Commission within 45 days of testing.

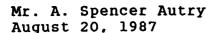
TO:

The compliance test shall be conducted using EPA Method #9 (opacity). The Method #9 test interval on this source shall be thrity (30) minutes. 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 testing.

Specific Condition No. 7 -

FROM:

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.





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.

This letter must be attached to your permit and becomes a part of that permit. If you have any questions, please call Tom John of my staff at (813) 623-5561.

Sincerely,

Richard D. Garriby, Ph.D.

District Manager Southwest District

EPCHC cc:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and all copies were mailed before the close of business on \mathcal{E} -2/-87 to the listed persons.

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

Jan Lebesta 8-21-87



Mr. A. Spencer Autry August 20, 1987



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

TO:

Submit for this facility, each calendar year, on or before March 1, an emissions report for the preceding 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 emission (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 Florida Department of Environmental Regulation.

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, FAC, 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, FAC. 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.