



TAMPA
ELECTRIC

A TECO ENERGY COMPANY

Tampa, Florida

F.J. GANNON STATION

TITLE V OPERATION
PERMIT APPLICATION

Prepared by:

ECT

Environmental Consulting & Technology, Inc.

3701 Northwest 98th Street
Gainesville, Florida 32606

ECT No. 94500-0011

June 1996

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ELECTRONIC SUBMITTAL

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INTRODUCTION

The Tampa Electric Company (TEC) F.J. Gannon Station located in Tampa, Hillsborough County, Florida is a nominal 1,317 megawatt (MW) electric generation facility. The F.J. Gannon Station consists of six steam boilers (Unit Nos. 1 through 6), six steam turbines, one simple-cycle combustion turbine (CT No. 1), a once-through cooling water system, solid fuels, fluxing material, fly ash, slag, and storage and handling facilities, fuel oil storage tanks, and ancillary support equipment. Unit Nos. 1, 2, 3, 4, 5, and 6 have nominal maximum heat inputs of 1,257, 1,257, 1,599, 1,876, 2,284, and 3,798 million British thermal units per hour (MMBtu/hr), respectively. CT No. 1 has a nominal maximum heat input of 256 MMBtu/hr. Units Nos. 1 through 6 are all fired with solid fuels, the majority coal, tire-derived fuel (TDF)/coal, petroleum coke/coal, and TDF/petroleum coke/coal fuel blends with some paper pellets, yard clippings, and used oil. No. 2 fuel oil is used for ignition during startups. The combustion turbine is fired with No. 2 distillate fuel oil.

Current Florida Department of Environmental Protection (FDEP) Operation Permits for the F.J. Gannon Station are summarized in the following table:

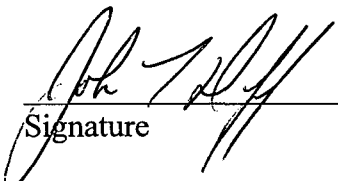
Emission Unit	Permit No.	Issuance Date	Expiration Date
Unit No. 1	AO29-204434	01/17/92	01/31/97
Unit No. 2	AO29-189206	02/07/91	02/06/96
Unit No. 3	AO29-172179	04/26/90	04/19/95
Unit No. 4	AO29-225208	12/02/94	10/14/99
Unit No. 5	AO29-203511	01/13/92	01/01/97
Unit No. 6	AO29-205512	02/21/92	02/15/97
CT No. 1	AO29-252612 ⁵	08/31/94	08/31/99
Solid Fuel Bunkers	AO29-250139	07/20/94	07/12/99
Solid Fuel Handling and Storage	AO29-216480	04/23/93	09/12/97
Fly Ash Silo No. 2	AO29-250140	07/20/94	07/12/99
Fly Ash Silo No. 1	AO29-250137	07/20/94	07/12/99

Emission Unit	Permit No.	Issuance Date	Expiration Date
Unit No. 4 Economizer Fly Ash Silo	AO29-218858	01/15/93	11/06/97
Fly Ash Handling and Storage (Fugitive Sources)	AO29-250140 AO29-250137	07/20/94	07/12/99
Other Material Handling	AO29-216480	04/23/93	09/12/97

Pursuant to Chapter 62-210.300(2)(a)3.a., the expiration dates of emission units subject to the Title V permitting program are automatically extended until 60 days after the due date for submittal of the facility's Title V permit application; i.e., until August 14, 1996 for the F.J. Gannon Station. Facilities that file a timely and complete Title V permit application are authorized to continue to operate under the terms of existing operation permits until the Title V permit is issued.

The TEC F.J. Gannon Station qualifies as a Title V Source pursuant to Chapter 62-210.200(173), Florida Administrative Code (F.A.C.), because potential emissions of a regulated air pollutant exceed 100 tons per year. This application package, prepared using Electronic Submission of Application (ELSA) Version 1.2.1, constitutes TEC's Title V permit application for the F.J. Gannon Station and is submitted to satisfy the requirements of Chapter 62-213.400, F.A.C.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: John Duff, General Manager, F.J. Gannon Station
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Tampa Electric Company Street Address: P.O. Box 111 City: Tampa State: Florida Zip Code: 33601-0111
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (813) 228-1874 Fax: (813) 228-1905
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i> Signature  Date <u>6-7-96</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: **Thomas W. Davis**
Registration Number: **36777**

2. Professional Engineer Mailing Address:

Organization/Firm: **Environmental Consulting & Technology, Inc.**
Street Address: **3701 NW 98th Street**
City: **Gainesville** State: **FL** Zip Code: **32606**

3. Professional Engineer Telephone Numbers:

Telephone: **(352) 332-0444** Fax: **(352) 332-6722**

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

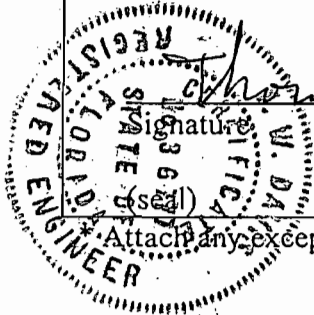
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emission units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.



W. D. Adams

Signature

6/5/96

Date

* Attach any exception to certification statement.

DOCUMENT II.D.1
AREA MAP SHOWING FACILITY LOCATION

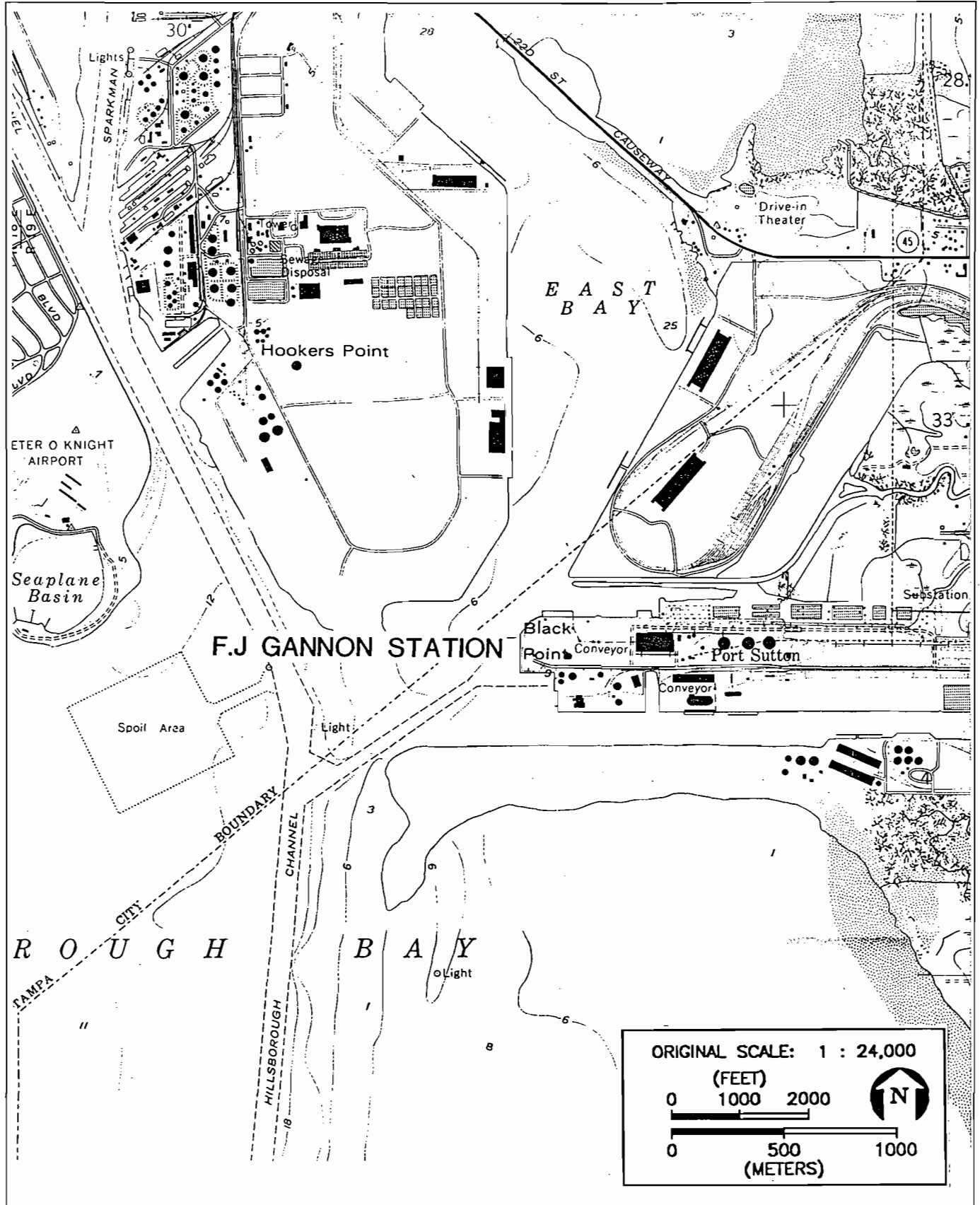
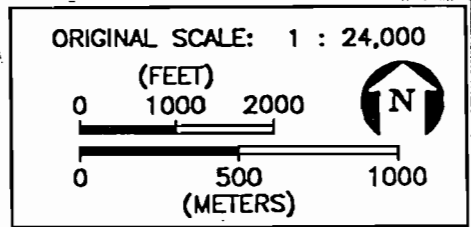


FIGURE II.D.1.1
 F.J. GANNON STATION AREA MAP

Sources: USGS Quad, Tampa, FL 1981.



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DOCUMENT II.D.2
FACILITY PLOT PLANS



SCALE: 1"=200'

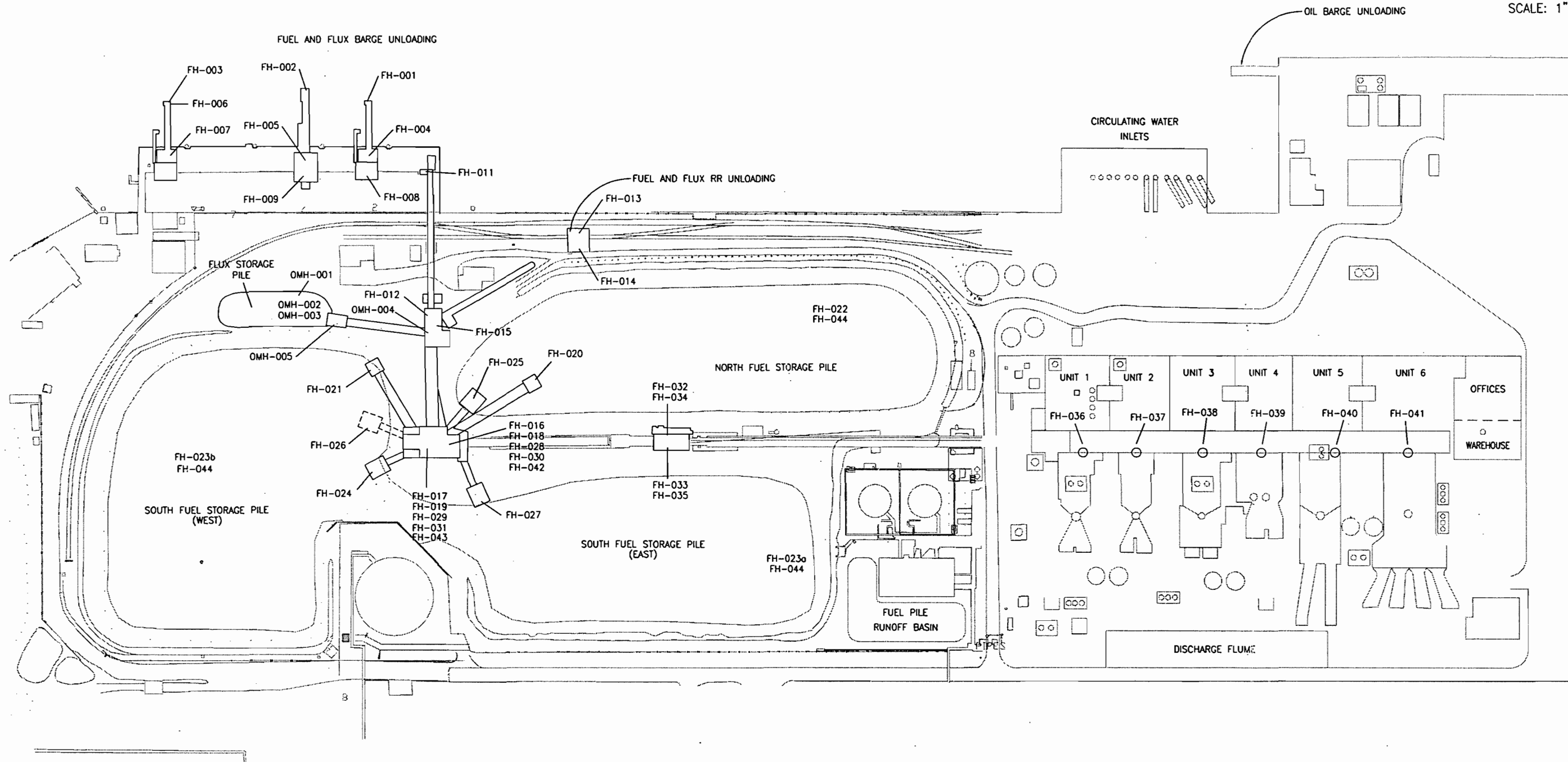


FIGURE I.I.D.2.3.
 F.J. GANNON STATION
 FUEL AND OTHER MATERIAL HANDLING AND STORAGE EMISSION SOURCES

Source: TEC; ECT, 1996.





SCALE: 1"=250'

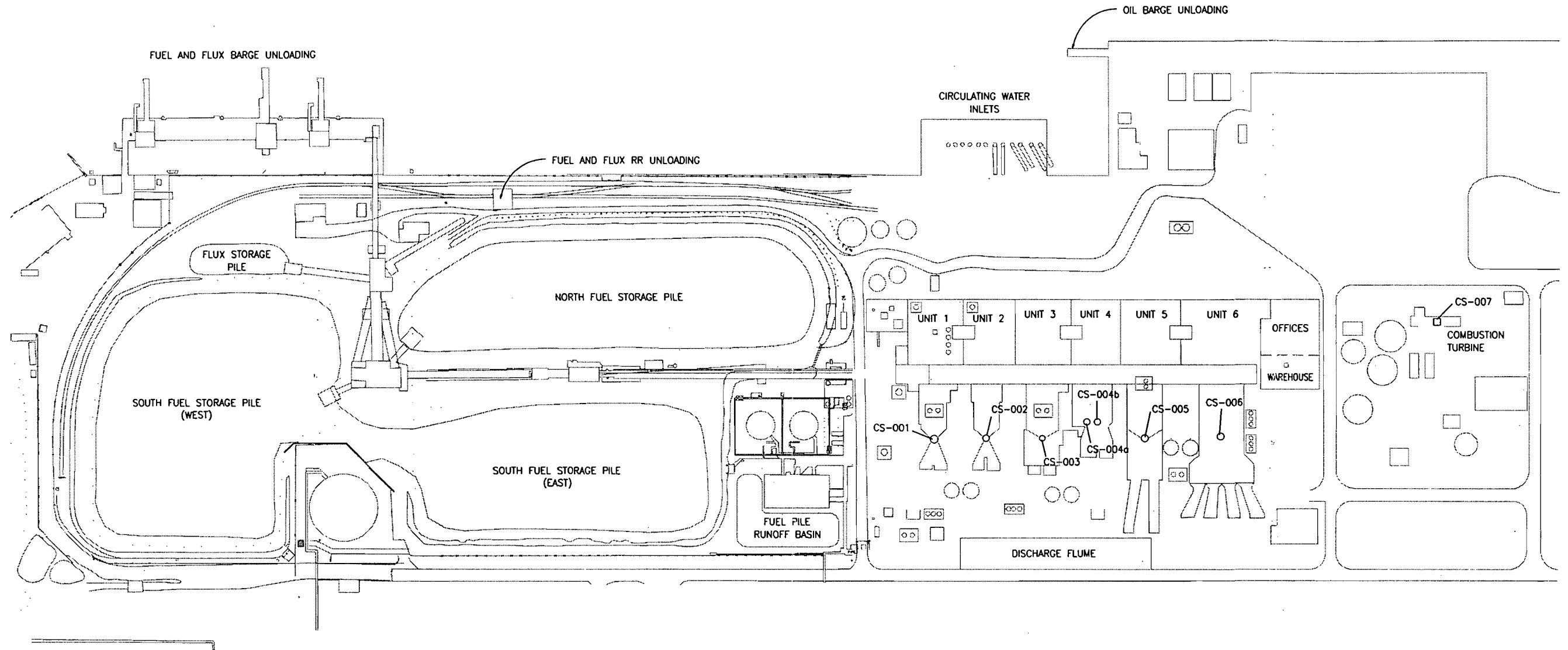


FIGURE II.D.2.4.
 F.J. GANNON STATION
 COMBUSTION EMISSION SOURCES
 Source: TEC; ECT, 1996.





SCALE: 1"=250'

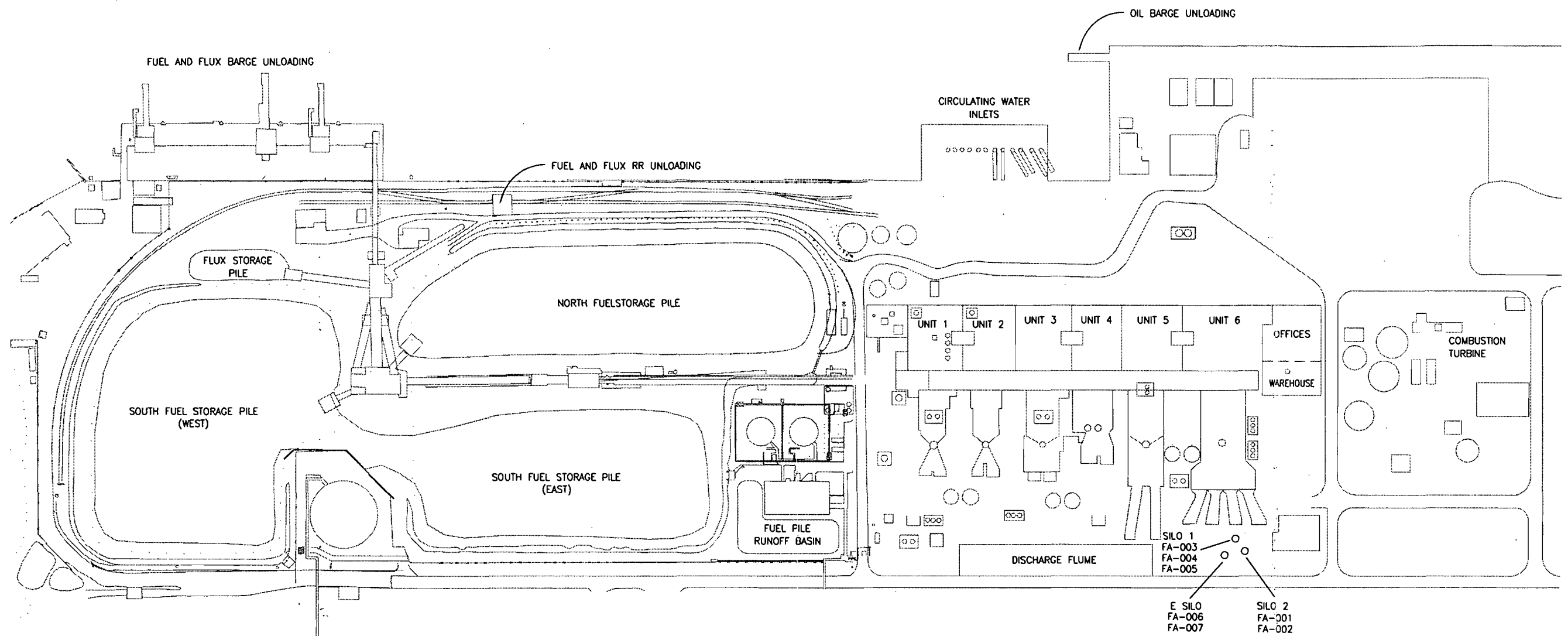


FIGURE II.D.2.5.

F.J. GANNON STATION
FLY ASH HANDLING AND STORAGE EMISSION SOURCES

Source: TEC; ECT, 1996.



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Fuel Handling and Storage Sources (FH)

Description	Source ID	Figure No.
Barge to East Clamshell (Spillage) *	FH-001	II.D.2.3.
Barge to West Clamshell (Spillage) *	FH-002	II.D.2.3.
Barge to Continuous Unloader (Spillage) *	FH-003	II.D.2.3.
East Clamshell to East Hopper *	FH-004	II.D.2.3.
West Clamshell to West Hopper *	FH-005	II.D.2.3.
Continuous Unloader to Conveyor A *	FH-006	II.D.2.3.
Conveyor A to Continuous Feeder *	FH-007	II.D.2.3.
East Hopper to Conveyor B *	FH-008	II.D.2.3.
West Hopper to Conveyor B *	FH-009	II.D.2.3.
Conveyor B to Conveyor C *	FH-011	II.D.2.3.
Conveyor C to Conveyor D1/D2 (Flux to Flux Storage Pile)	FH-012	II.D.2.3.
Railcar to Hopper *	FH-013	II.D.2.3.
Hopper to Conveyor L *	FH-014	II.D.2.3.
Conveyor L to Conveyor D1/D2 (Flux to Flux Storage Pile)	FH-015	II.D.2.3.
Conveyor D1 to Conveyor M1	FH-016	II.D.2.3.
Conveyor D2 to Conveyor M2	FH-017	II.D.2.3.
Conveyor M1 to Conveyor E1	FH-018	II.D.2.3.
Conveyor M2 to Conveyor E2	FH-019	II.D.2.3.
Conveyor E1 to Storage Pile	FH-020	II.D.2.3.
Conveyor E2 to Storage Pile	FH-021	II.D.2.3.
North Storage Pile	FH-022	II.D.2.3.
East Portion of South Storage Pile	FH-023a	II.D.2.3.
West Portion of South Storage Pile	FH-023b	II.D.2.3.
Underground Reclaim System to Conveyor F1	FH-024	II.D.2.3.
Underground Reclaim System to Conveyor F4	FH-025	II.D.2.3.
Underground Reclaim System to Conveyor F3	FH-026	II.D.2.3.
Underground Reclaim System to Conveyor F2	FH-027	II.D.2.3.
Conveyor F1 to Conveyor G1/G2	FH-028	II.D.2.3.
Conveyor F4 to Conveyor G1/G2	FH-029	II.D.2.3.
Conveyor F3 to Conveyor G1/G2	FH-030	II.D.2.3.
Conveyor F2 to Conveyor G1/G2	FH-031	II.D.2.3.
Conveyor G1 to Hammermill Crusher 1 *	FH-032	II.D.2.3.
Conveyor G2 to Hammermill Crusher 2 *	FH-033	II.D.2.3.
Hammermill Crusher 1 to Conveyor H1 *	FH-034	II.D.2.3.
Hammermill-Crusher 2 to Conveyor H2 *	FH-035	II.D.2.3.
Conveyors H1/H2 to Conveyors J1/J2, Conveyors J1/J2 to Bunker 1 *	FH-036	II.D.2.3.
Conveyors J1/J2 to Bunker 2 *	FH-037	II.D.2.3.
Conveyors J1/J2 to Bunker 3 *	FH-038	II.D.2.3.
Conveyors J1/J2 to Bunker 4 *	FH-039	II.D.2.3.
Conveyors J1/J2 to Bunker 5 *	FH-040	II.D.2.3.
Conveyors J1/J2 to Bunker 6 *	FH-041	II.D.2.3.
Conveyor D1 to Conveyor G1/G2 (By-Pass Storage) *	FH-042	II.D.2.3.
Conveyor D2 to Conveyor G1/G2 (By-Pass Storage) *	FH-043	II.D.2.3.
Storage Pile Maintenance	FH-044	II.D.2.3.

* THIS EQUIPMENT MAY ALSO BE USED TO TRANSFER FLUX

Other Material Handling and Storage Sources (OMH)

Description	Source ID	Figure No.
Truck Dump to Flux Storage Pile	del OMH-001	II.D.2.1.
Conveyor S To Conveyor D1/D2	OMH-004	II.D.2.1.
Flux Storage Pile Maintenance	OMH-002	II.D.2.1.
Flux Storage Pile	OMH-003	II.D.2.1.
Underground Reclaim System To Conveyors	OMH-005	II.D.2.1.

Combustion Sources (CS)

Description	Source ID	Figure No.
Unit No. 1	CS-001	II.D.2.4.
Unit No. 2	CS-002	II.D.2.4.
Unit No. 3	CS-003	II.D.2.4.
Unit No. 4	CS-004a,b	II.D.2.4.
Unit No. 5	CS-005	II.D.2.4.
Unit No. 6	CS-006	II.D.2.4.
Combustion Turbine No. 1	CS-007	II.D.2.4.

Fly Ash Handling Sources (FA)

Description	Source ID	Figure No.
Units 1-4 Silo	del FA-001	II.D.2.5.
Units 1-4 Silo to Tanker Truck	FA-002	II.D.2.5.
Units 5 and 6 Silo	del FA-003	II.D.2.5.
Units 5 and 6 Silo to Tanker Truck	FA-004	II.D.2.5.
Units 5 and 6 Silo Pugmill	FA-005	II.D.2.5.
Unit 4 Economizer Ash Silo	del FA-006	II.D.2.5.
Unit 4 Economizer Ash Silo to Tanker Truck	FA-007	II.D.2.5.

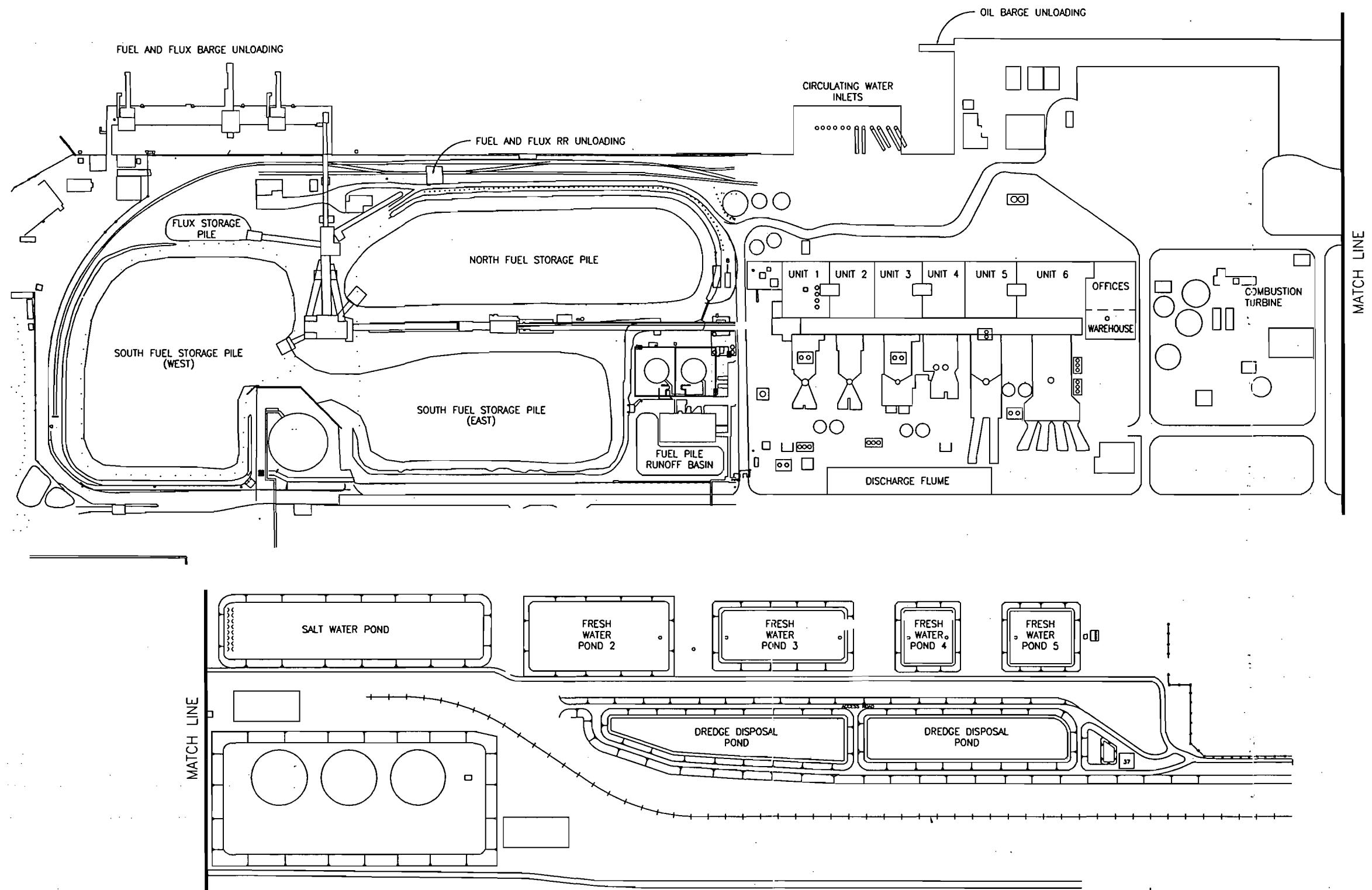
FIGURE II.D.2.1.

F.J. GANNON STATION EMISSION SOURCE IDENTIFICATION KEY SHEET

Source: TEC; ECT, 1996.



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SCALE: 1"=300'

FIGURE II.D.2.2.

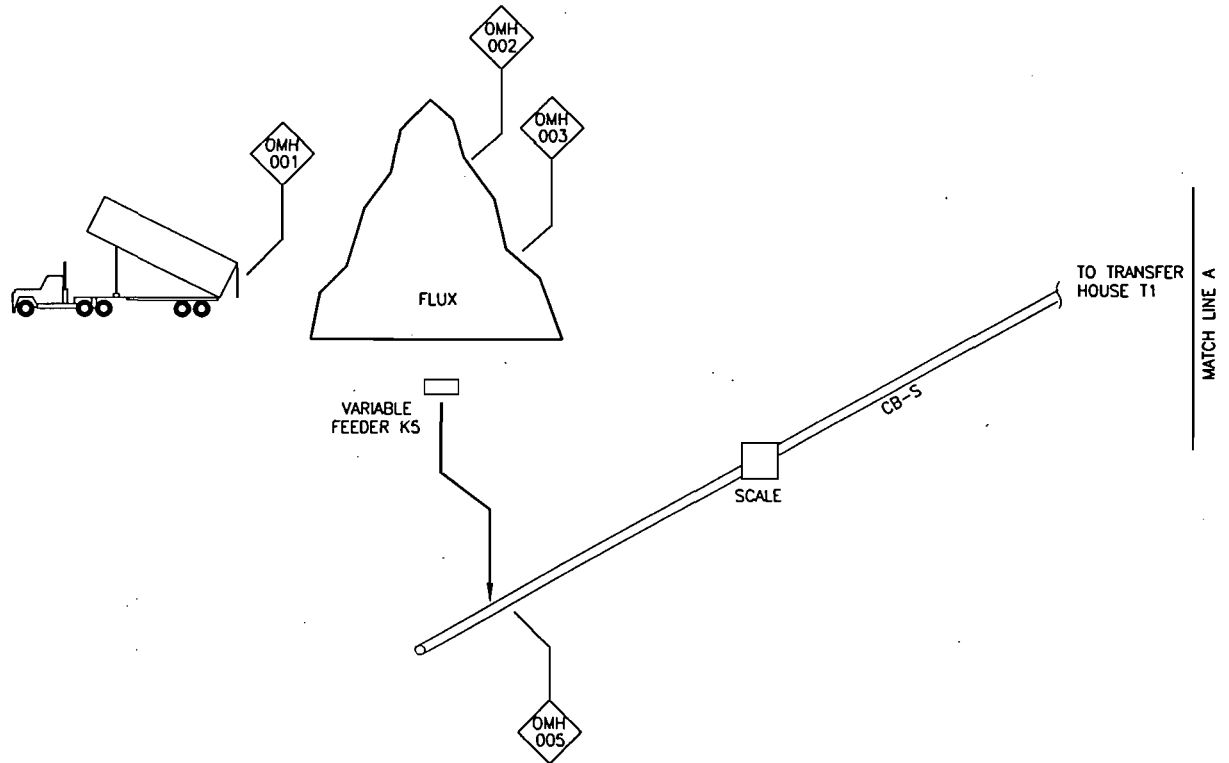
F.J. GANNON STATION
OVERALL FACILITY PLOT PLAN

Source: TEC; ECT, 1996.

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DOCUMENT II.D.3
PROCESS FLOW DIAGRAMS



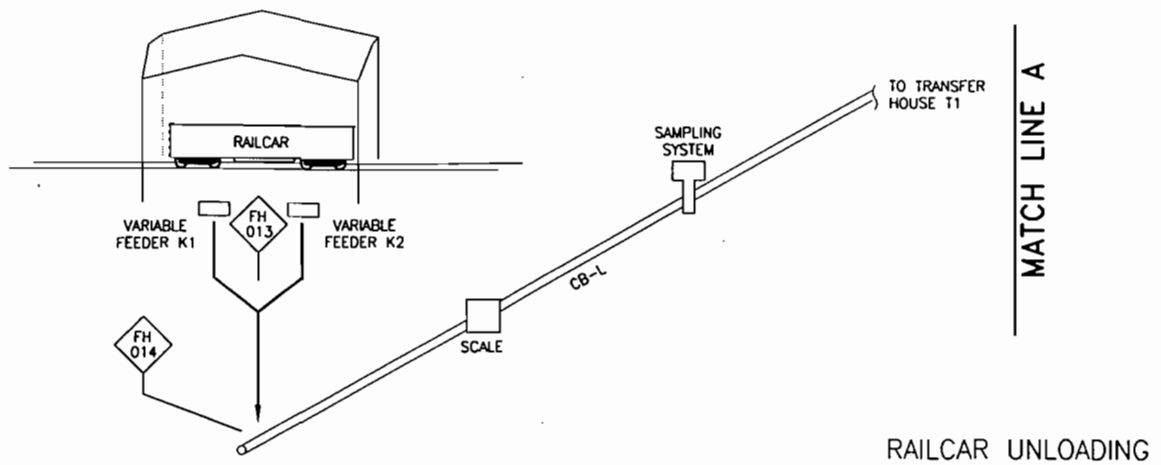
LEGEND

 EMISSION POINT

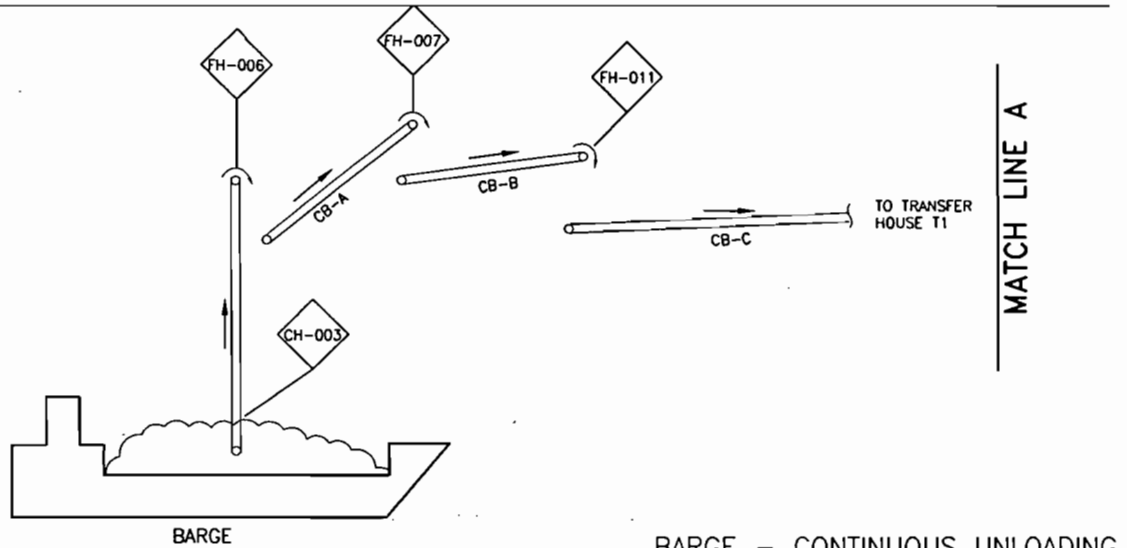
FIGURE I.I.D.3.1.
FLUX HANDLING AND STORAGE PROCESS FLOW
DIAGRAM, FLUX UNLOADING

Source: ECT, 1996.

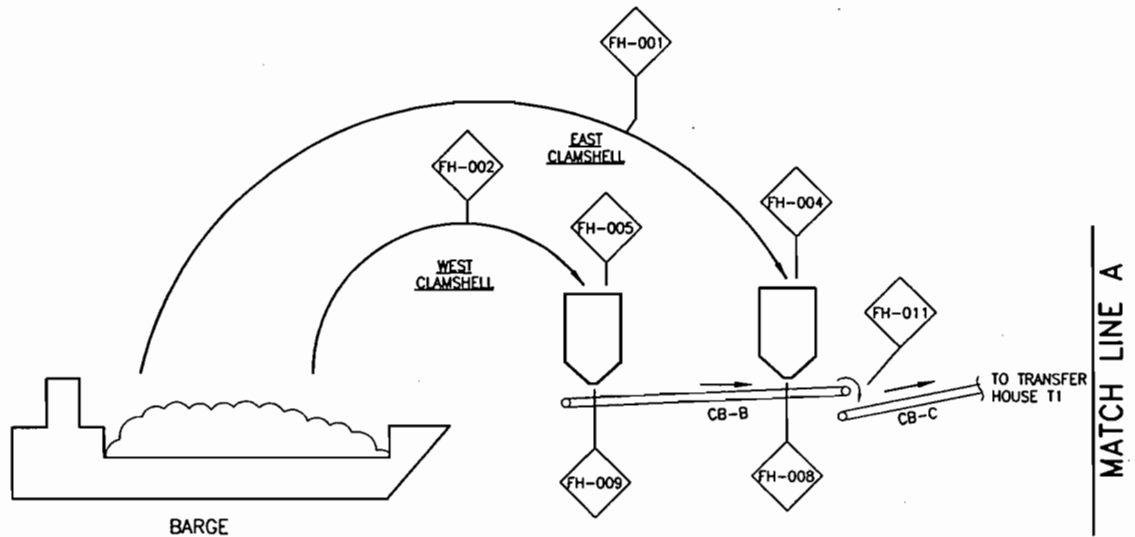
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RAILCAR UNLOADING



BARGE - CONTINUOUS UNLOADING



BARGE - CLAMSHELL UNLOADING

LEGEND


 EMISSION POINT

FIGURE I.D.3.2.




FUEL AND FLUX HANDLING AND STORAGE PROCESS FLOW DIAGRAM, BARGE AND RAILCAR UNLOADING

Source: ECT, 1996.

ECT

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LEGEND

-  EMISSIONS POINT
-  ENCLOSURE
-  MOVING CONVEYOR BELT

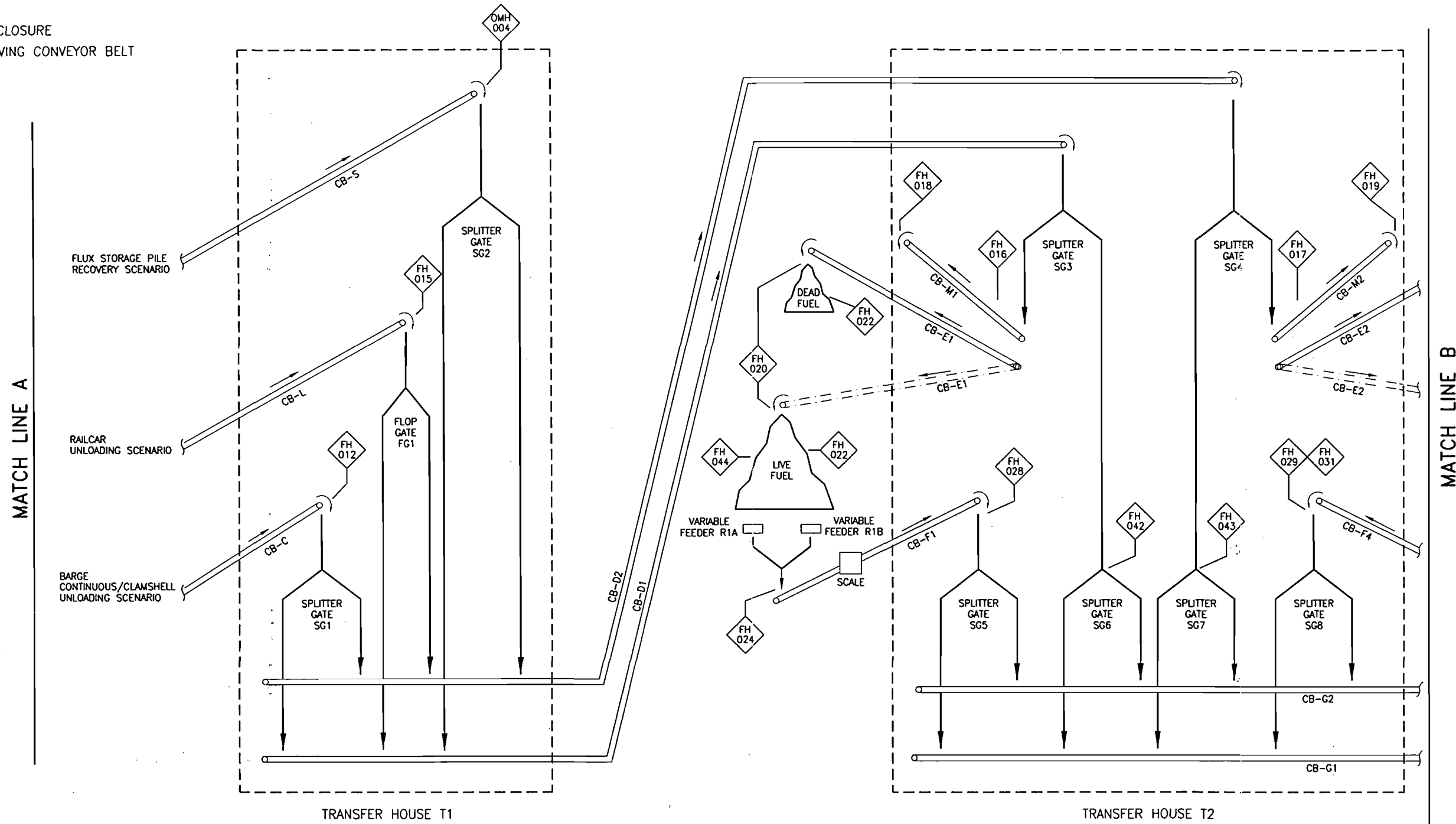


FIGURE I.I.D.3.3.

F.J. GANNON STATION

FUEL AND FLUX HANDLING AND STORAGE PROCESS FLOW DIAGRAM

Source: ECT, 1996.

ECT

Environmental Consulting & Technology, Inc.

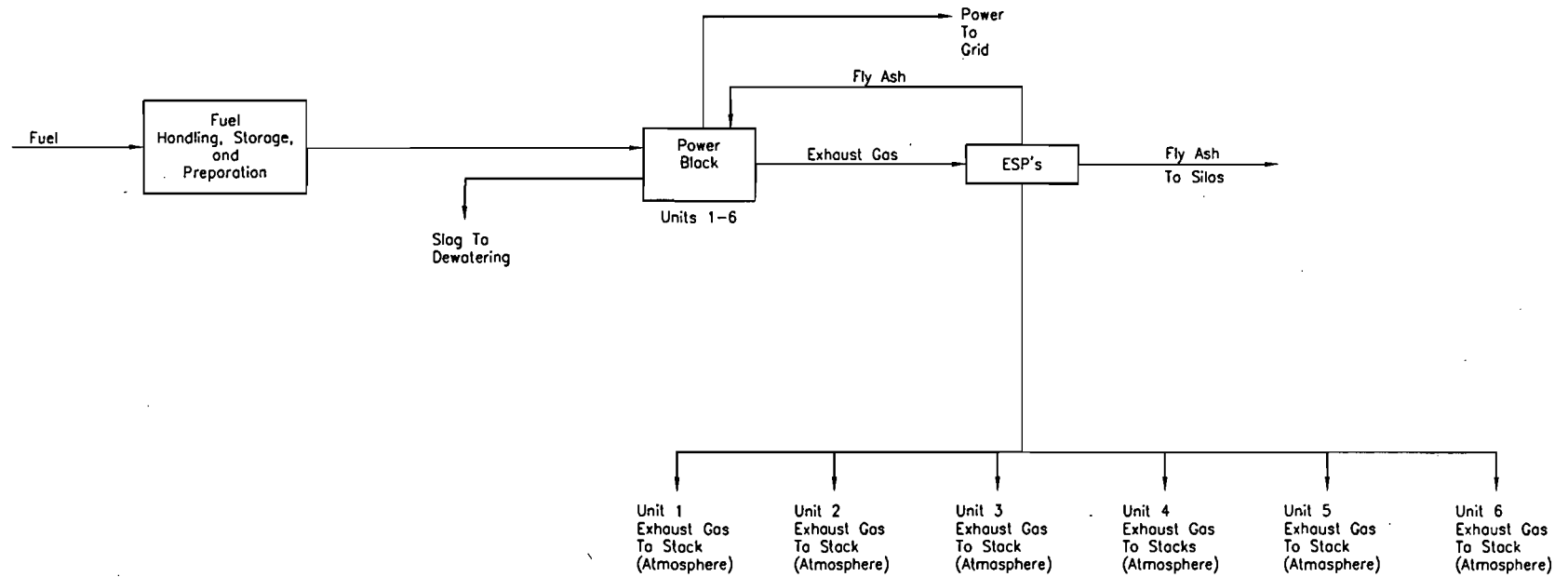





FIGURE II.D.3.5.

F.J. GANNON STATION
OVERALL BOILER PROCESS FLOW DIAGRAM

Source: ECT, 1996.



LEGEND

-  EMISSION POINT
-  ENCLOSURE
-  MOVING CONVEYOR BELT

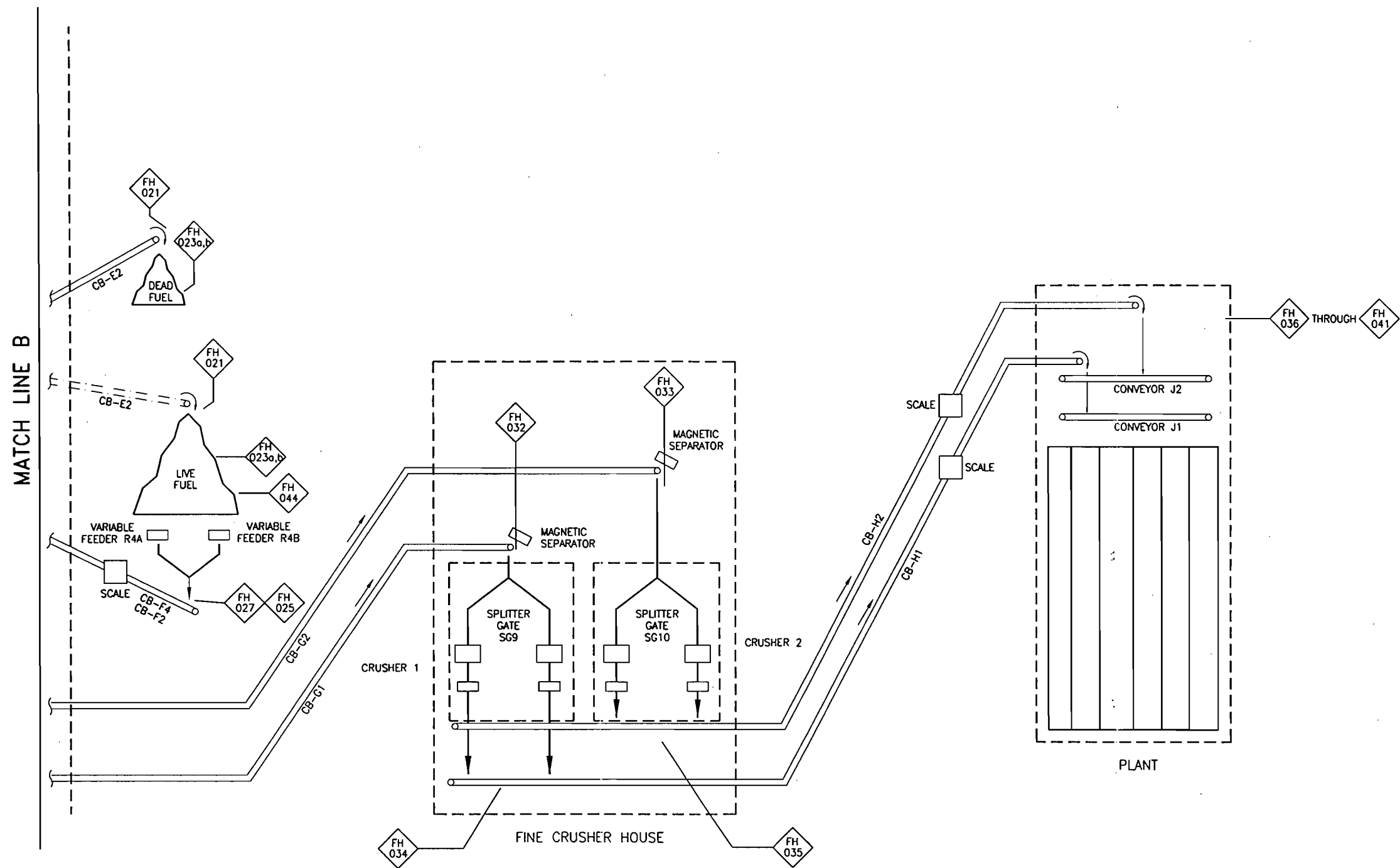
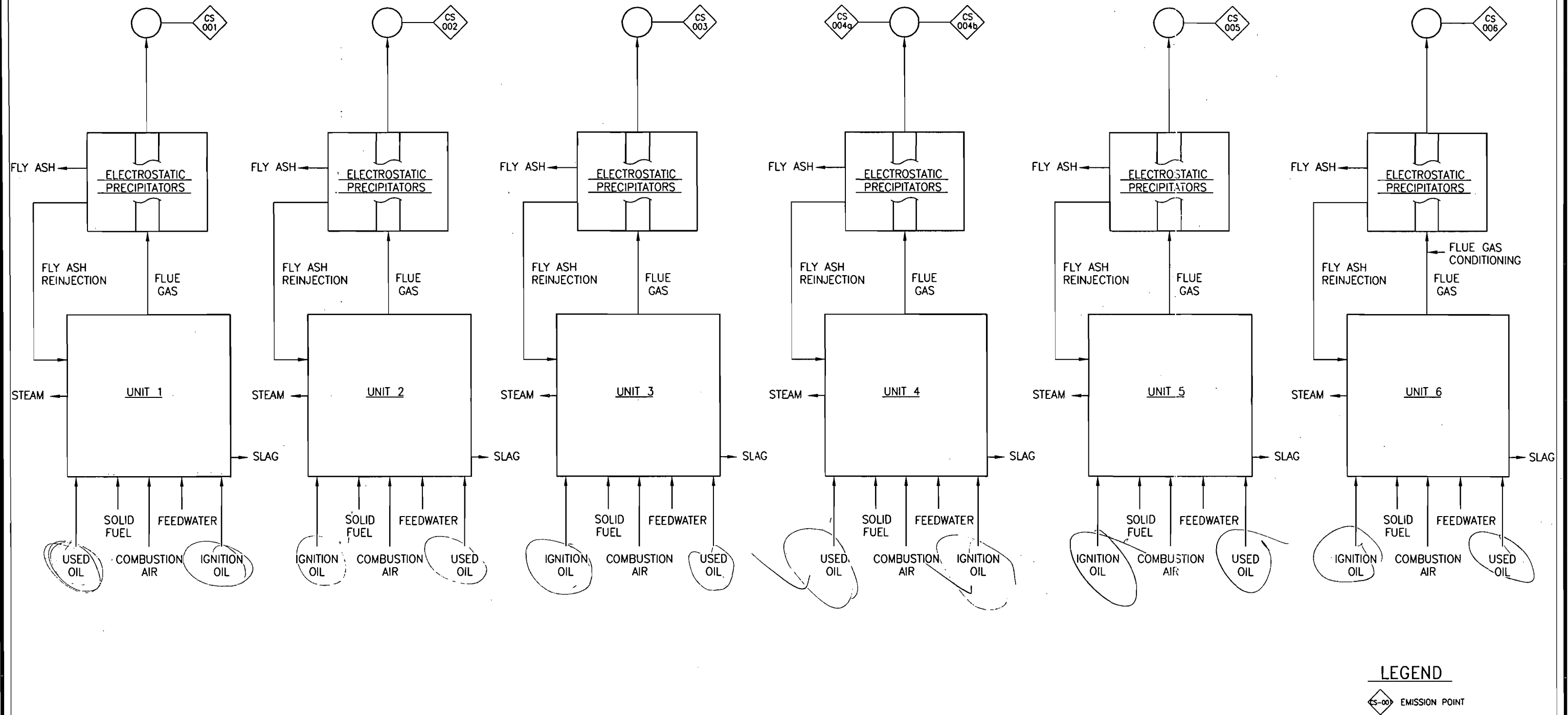


FIGURE II.D.3.4.

F.J. GANNON STATION
FUEL AND FLUX HANDLING AND STORAGE PROCESS FLOW DIAGRAM

Source: ECT, 1996.



LEGEND

CS-00 EMISSION POINT

FIGURE II.D.3.6.

F.J. GANNON STATION
BOILER PROCESS FLOW DIAGRAM

Source: ECT, 1996.

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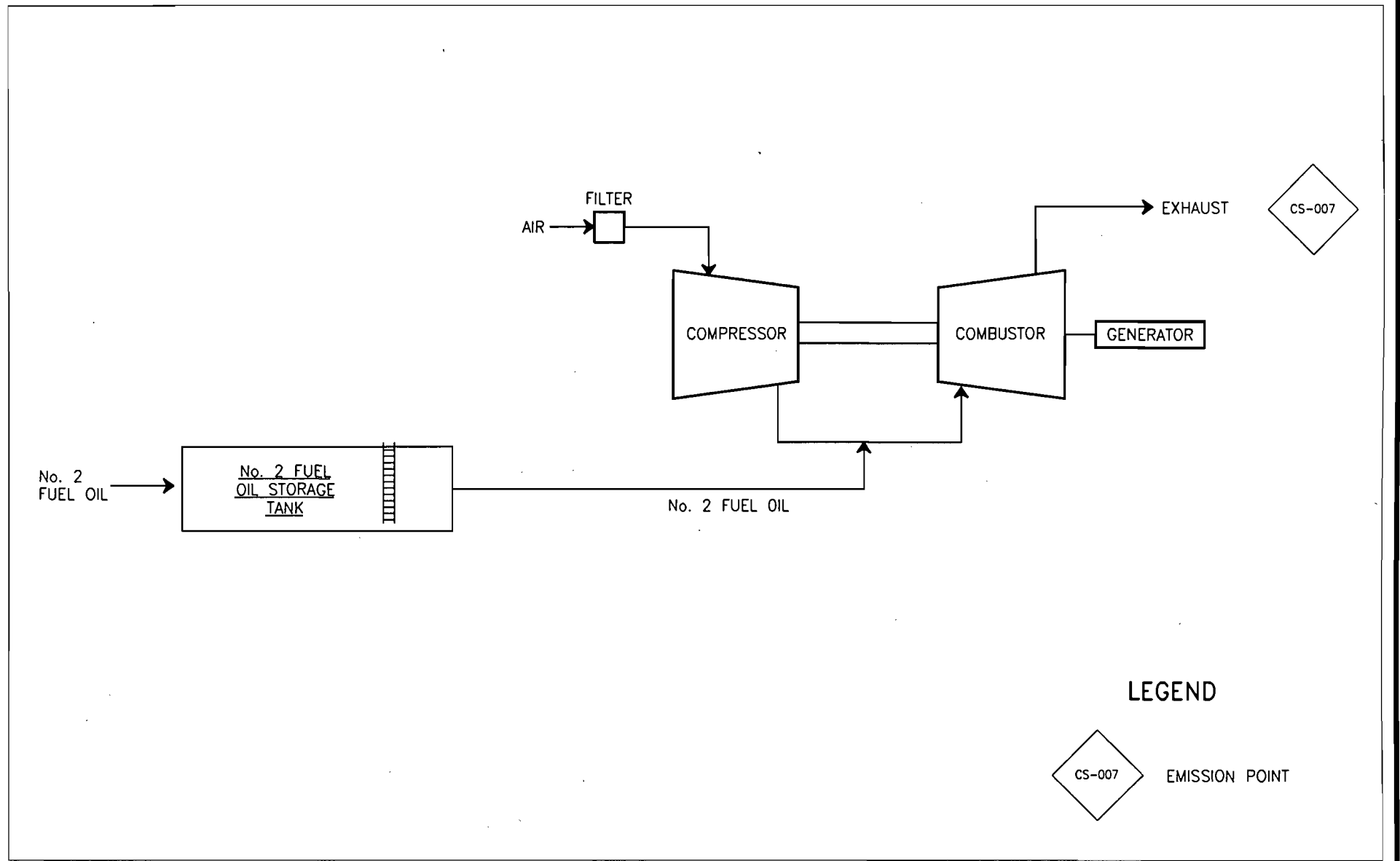
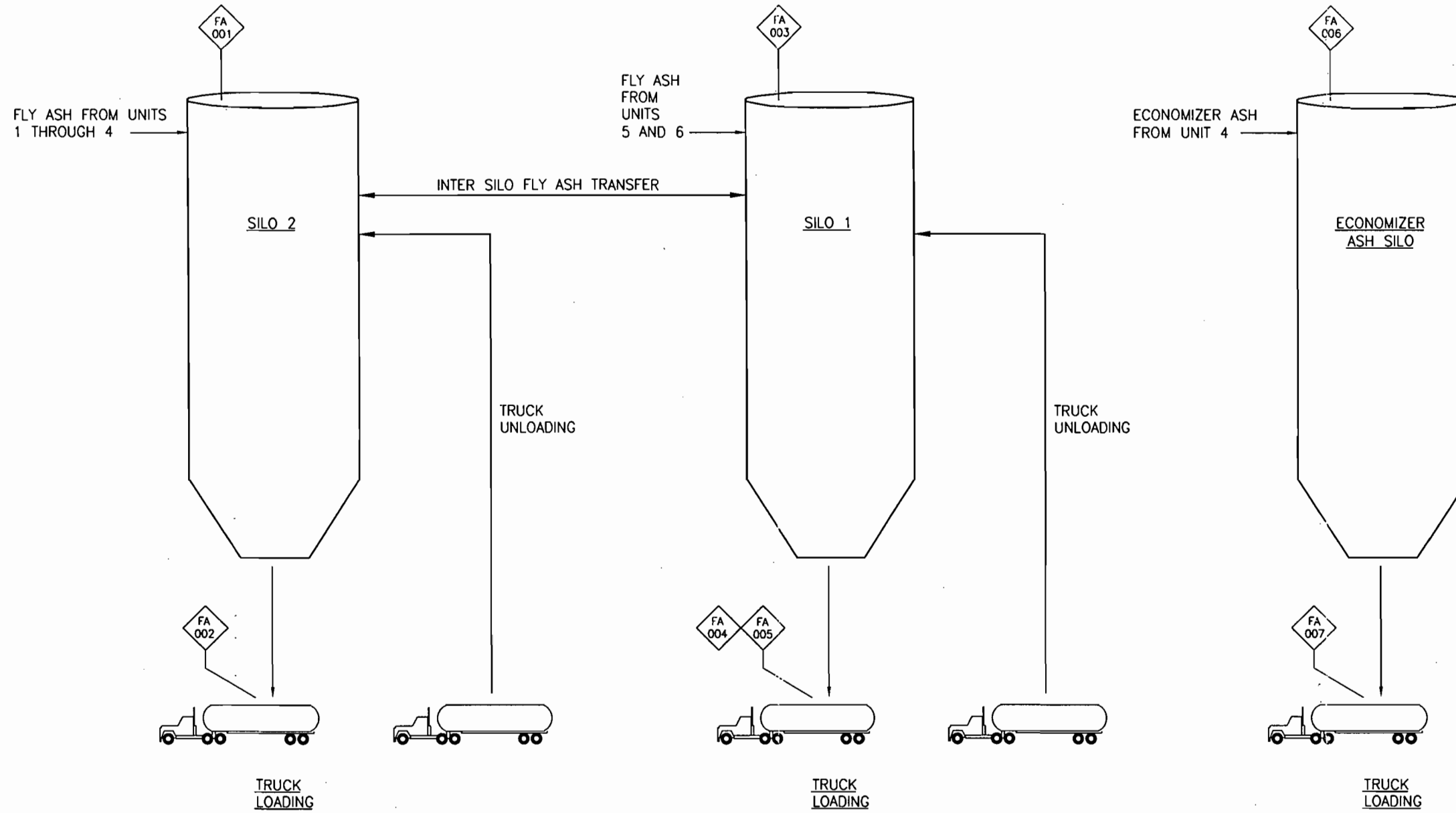


FIGURE II.D.3.7.
F.J. GANNON STATION
COMBUSTION TURBINE - PROCESS FLOW DIAGRAM
Source: ECT, 1996.

LEGEND

CS-007 EMISSION POINT

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LEGEND

 EMISSION POINT

FIGURE I.D.3.8.
 F.J. GANNON STATION
 FLY ASH HANDLING AND STORAGE PROCESS FLOW DIAGRAM
 Source: ECT, 1996.

DOCUMENT II.D.13 AND 14
COMPLIANCE REPORT, PLAN, AND STATEMENT

**COMPLIANCE REPORT, PLAN,
AND CERTIFICATION**

1. Compliance Report and Plan

Appendix A to this application identifies the requirements that are applicable to the emission units that comprise this Title V source. Each emissions unit is in compliance, and will continue to comply, with the respective applicable requirements.

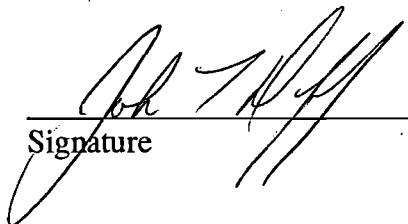
The emission units that comprise this Title V source will comply with future-effective applicable requirements on a timely basis.

2. Proposed Schedule for the Submission of Periodic Compliance Statements Throughout the Permit Term

Periodic compliance statements are proposed to be submitted on an annual basis consistent with FDEP Rule 62-213.440(3)(b), F.A.C.

3. Compliance Certification

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.



Signature

6-7-96

Date

DOCUMENT III.I.2
FUEL ANALYSES

F.J. Gannon Station No. 2 Fuel Oil Analysis*

	Ash (weight percent)	Heat Content (Btu/gallon)	Sulfur (weight percent)
Mean	0.001	138,130	0.186
Minimum	0.001	136,280	0.061
Maximum	0.002	139,150	0.393
Range	0.001	2,870	0.332

*Data are based on sampling and analysis from May 5, 1995, through April 30, 1996.

F.J. Gannon Station Coal Analysis*

	Ash*	Heat Content**	Sulfur**	Moisture
	(weight percent)	(Btu/gallon)	(weight percent)	(weight percent)
Mean	7.62	13,662	1.29	9.77
Minimum	5.00	13,238	1.08	5.59
Maximum	11.20	14,425	1.68	15.80
Range	6.20	1,187	0.60	10.21

*Data are based on weekly composite sampling and analysis from May 1, 1995, through May 7, 1996.

**Dry basis.



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1819 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 • TEL: 708-953-9300 FAX: 708-953-9306

Member of the SGS Group (Société Générale de Surveillance)

PLEASE ADDRESS ALL CORRESPONDENCE TO:
18130 VAN DRUNEN RD.
SOUTH HOLLAND, IL 60473
TEL: (708) 331-2900
FAX: (708) 333-3060

May 13, 1996

TAMPA ELECTRIC
Corporate Environmental Svcs.
5010 Causeway Blvd.
Tampa, FL 33619
Attn: Robert L. Dorey

Sample identification by
Tampa Electric

F.J. Gannon Station - Tire-Derived Fuel, only

Kind of sample reported to us TDF
Sample taken at -----
Sample taken by -----
Date sampled -----
Date received May 1, 1996

Sample ID: TDF

P.O. No. EN35816

REVISED REPORT 5/13/96

Analysis Report No. 71-24828

PROXIMATE ANALYSIS

	<u>As Received</u>	<u>Dry Basis</u>	
% Moisture	5.57	XXXXXX	
% Ash	12.54	13.28	
% Volatile	45.31	47.98	
% Fixed Carbon	<u>36.58</u>	<u>38.74</u>	
	100.00	100.00	
Btu/lb	13697	14505	MAP 16726
% Sulfur	1.52	1.61	
% CARBON	57.87	61.28	
% NITROGEN	0.72	0.76	

METHODS

Moisture: ASTM D 3302; Ash: ASTM D 3174; Volatiles: ASTM D 3175; Fixed Carbon: Calculated Value; ASTM D 3172
Btu/lb: ASTM D 3286; Sulfur: ASTM D 4239 (Method C); Carbon & Nitrogen: ASTM D 5373

Respectfully submitted,
COMMERCIAL TESTING & ENGINEERING CO.

Manager, South Holland Laboratory



DOCUMENT III.1.4
DESCRIPTION OF STACK SAMPLING FACILITIES

F.J. GANNON GENERATING STATION
 BOILER NO. 1 TEST LOCATION
 PARTICULATE TRAVERSE POINTS

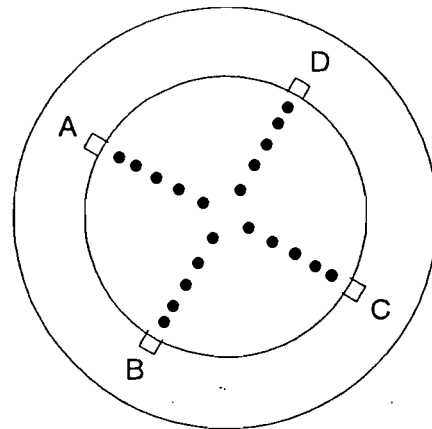
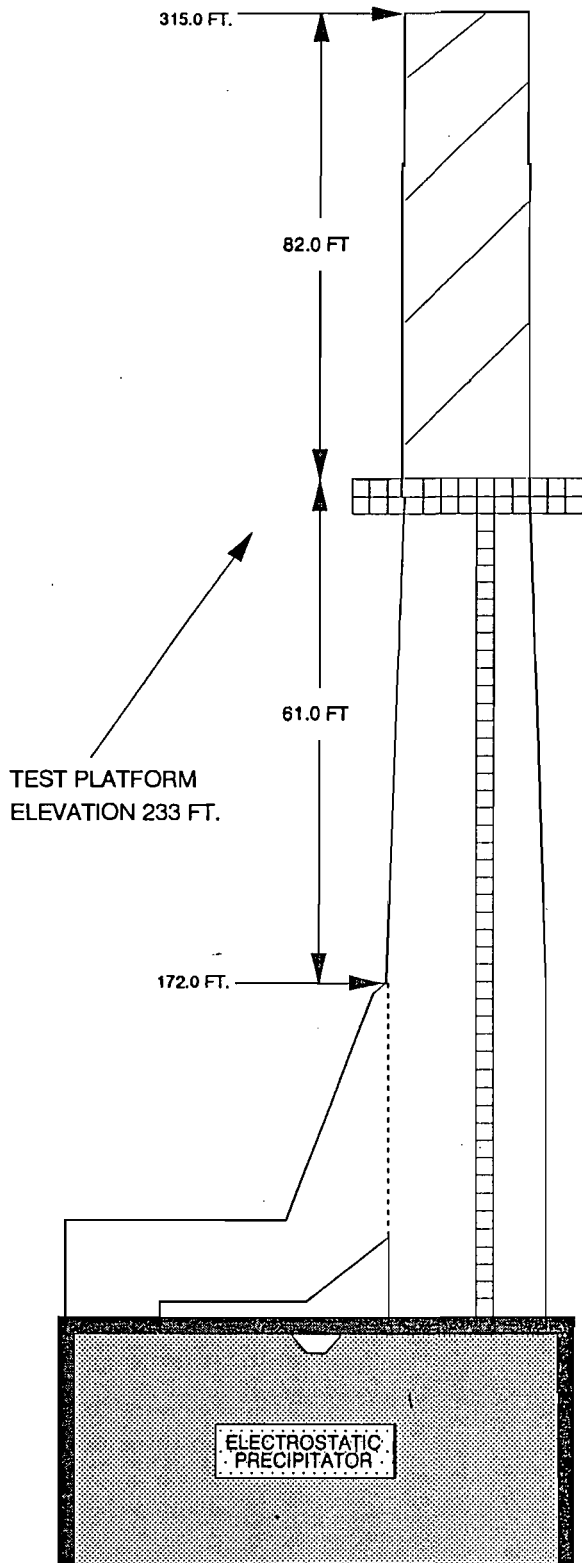
TRAVERSE POINTS	DISTANCE FROM STACK WALL
1	3.65 IN.
2	11.50 IN.
3	20.48 IN.
4	31.71 IN.
5	47.98 IN.

STACK DIAMETERS DOWNSTREAM
 FROM FLOW DISTURBANCES =
 5.22 STACK DIAMETERS

STACK DIAMETERS UPSTREAM
 FROM FLOW DISTURBANCES =
 7.01 STACK DIAMETERS

STACK DIAMETER 11.69 FT. I.D.
 STACK AREA = 107.353 SQ. FT.

PORT LENGTH:
 PORT'S A,B+D = 18.0 IN.
 PORT C = 20.0 IN.



AERIAL VIEW



FIGURE 1

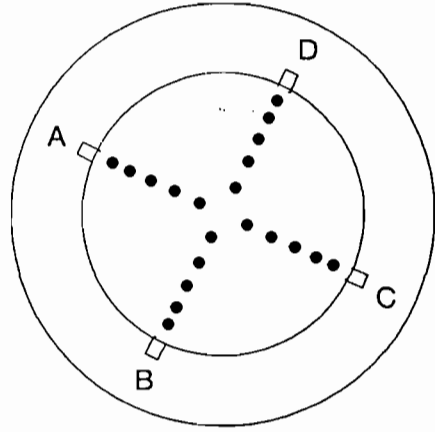
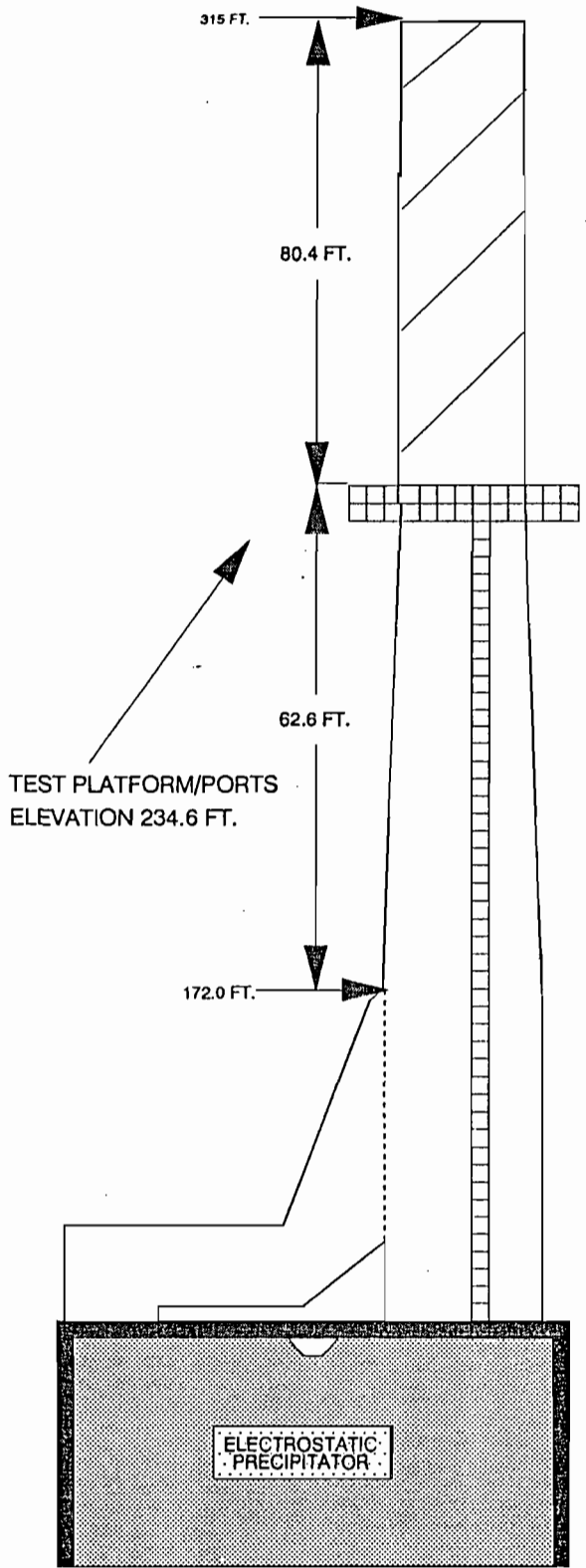
F.J. GANNON GENERATING STATION
 BOILER NO. 2 TEST LOCATION
 PARTICULATE TRAVERSE POINTS

TRAVERSE POINTS	DISTANCE FROM STACK WALL
1	3.60 IN.
2	11.34 IN.
3	20.19 IN.
4	31.25 IN.
5	47.30 IN.

STACK DIAMETERS DOWNSTREAM
 FROM FLOW DISTURBANCES =
 5.43 STACK DIAMETERS

STACK DIAMETERS UPSTREAM
 FROM FLOW DISTURBANCES =
 6.98 STACK DIAMETERS

STACK DIAMETER 11.52 FT. I.D.
 STACK AREA = 104.314 SQ. FT.
 PORT LENGTH = 13.0 IN.



AERIAL VIEW



REVISED 6-23-95

FIGURE 1

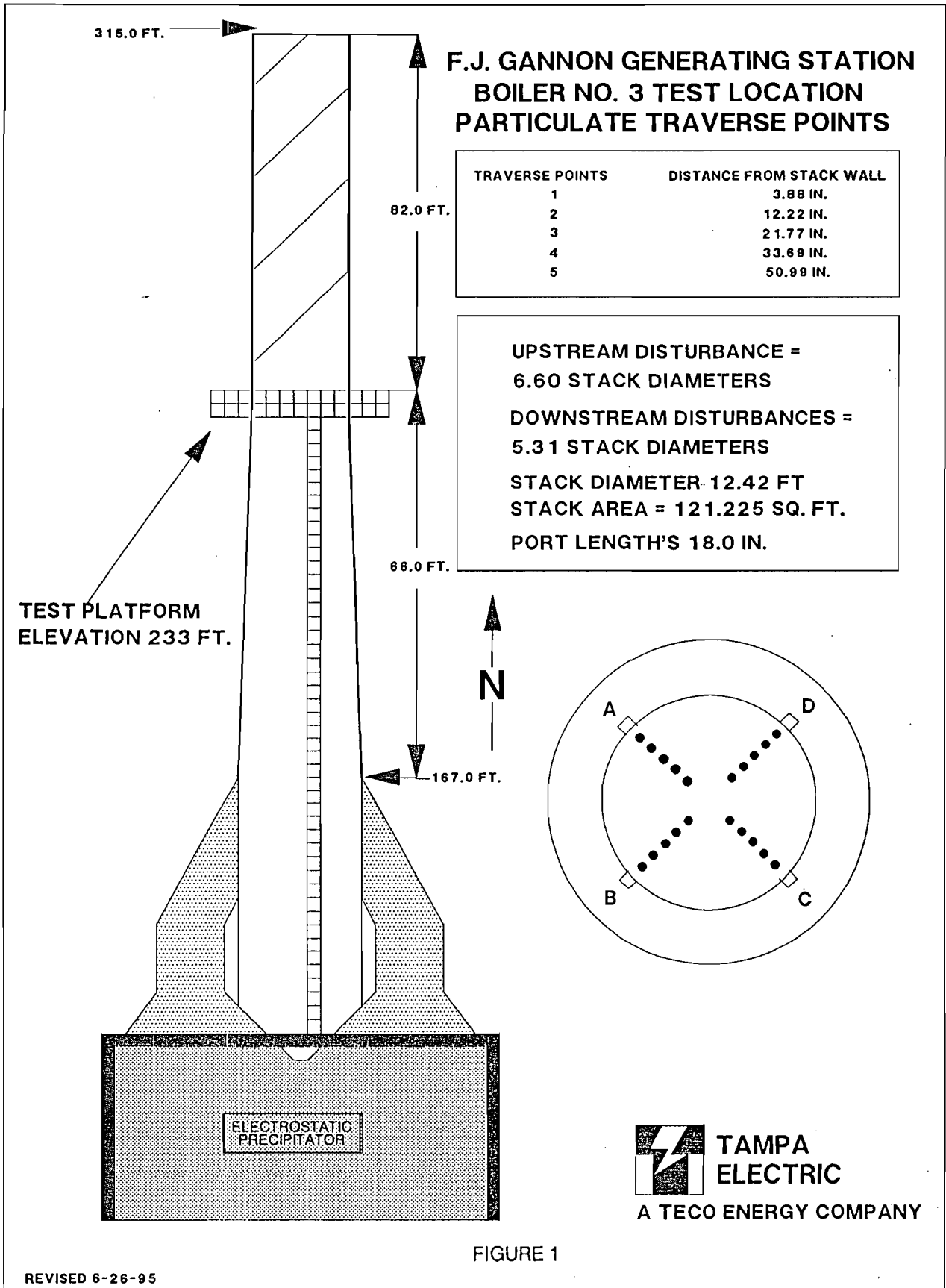


FIGURE 1

REVISED 6-26-95

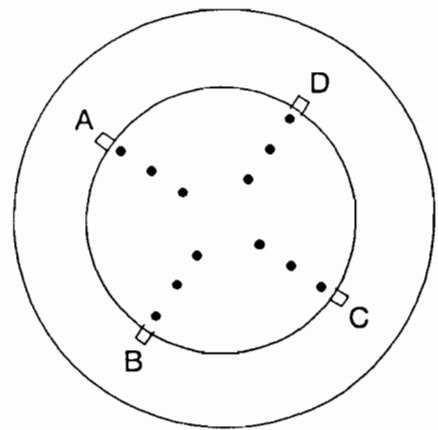
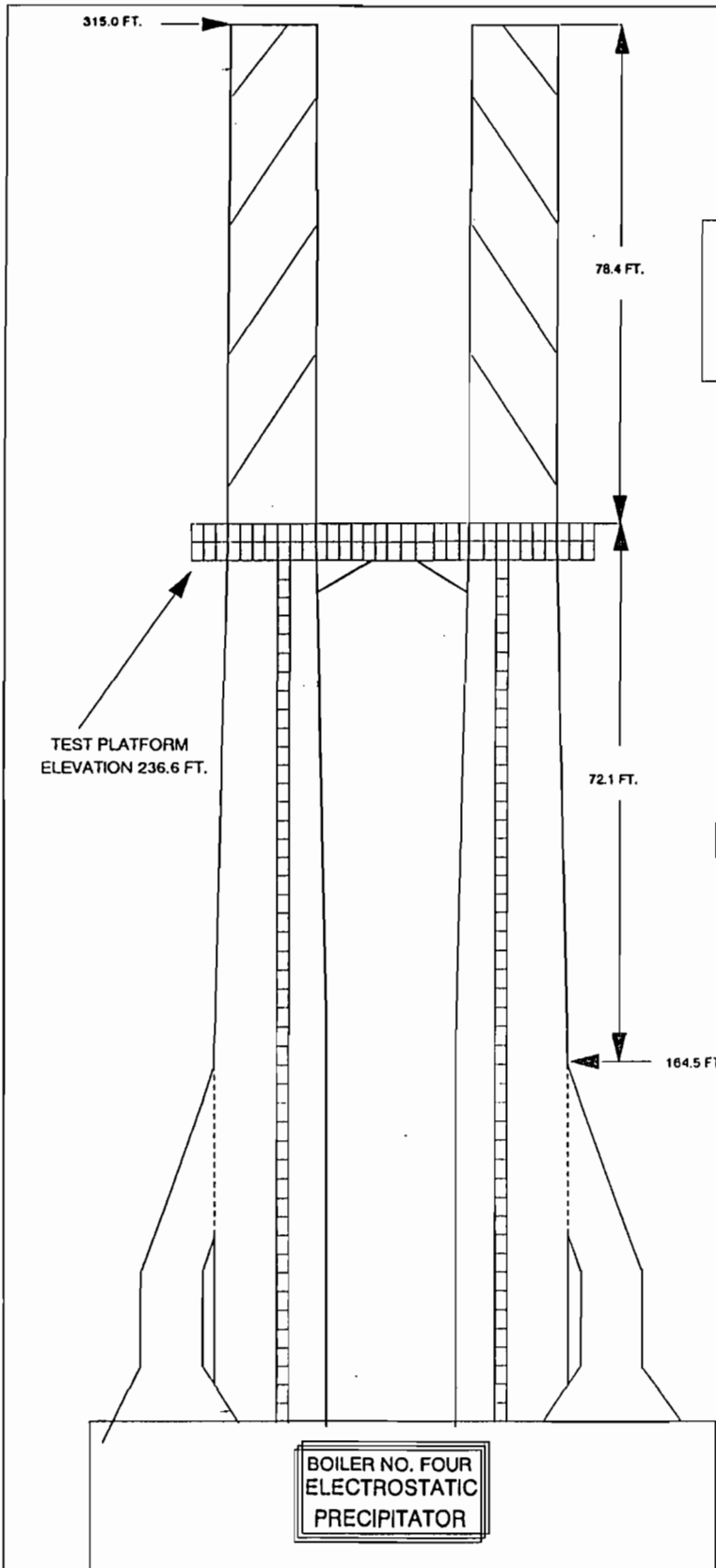
**F.J. GANNON GENERATING STATION
BOILER NO. 4 TEST LOCATION
PARTICULATE TRAVERSE POINTS**

TRAVERSE POINTS	DISTANCE FROM STACK WALL
1	5.06 IN.
2	16.79 IN.
3	34.04 IN.

STACK DIAMETERS DOWNSTREAM
FROM FLOW DISTURBANCES =
7.52 STACK DIAMETERS

STACK DIAMETERS UPSTREAM
FROM FLOW DISTURBANCES =
8.18 STACK DIAMETERS

STACK DIAMETER 9.58 FT. I.D.
STACK AREA = 72.131 SQ. FT.
PORT LENGTH = 13.0 IN.

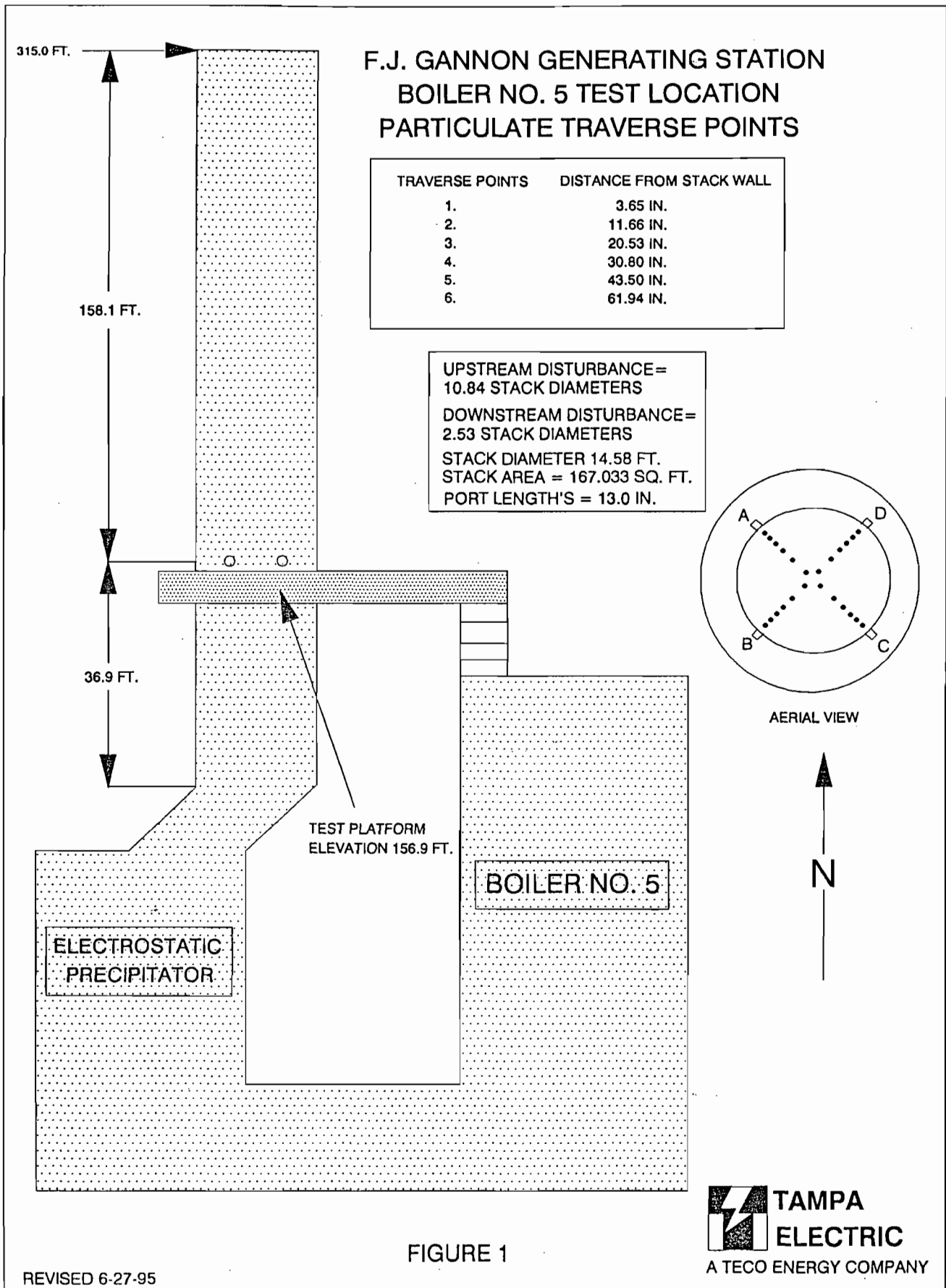


AERIAL VIEW



REVISED 6-23-95

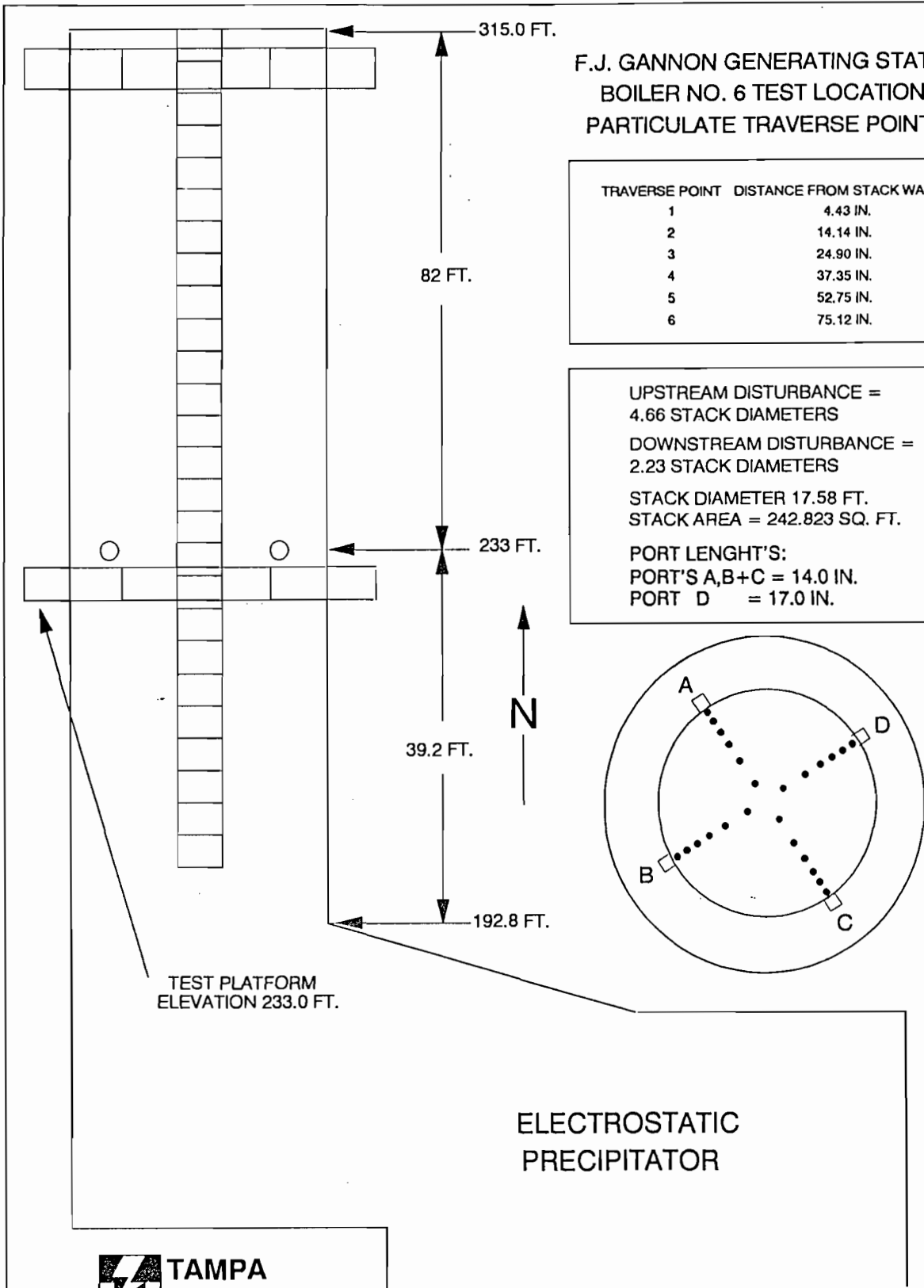
FIGURE_1



F.J. GANNON GENERATING STATION
 BOILER NO. 6 TEST LOCATION
 PARTICULATE TRAVERSE POINTS

TRAVERSE POINT	DISTANCE FROM STACK WALL
1	4.43 IN.
2	14.14 IN.
3	24.90 IN.
4	37.35 IN.
5	52.75 IN.
6	75.12 IN.

UPSTREAM DISTURBANCE =
 4.66 STACK DIAMETERS
 DOWNSTREAM DISTURBANCE =
 2.23 STACK DIAMETERS
 STACK DIAMETER 17.58 FT.
 STACK AREA = 242.823 SQ. FT.
 PORT LENGTH'S:
 PORT'S A,B+C = 14.0 IN.
 PORT D = 17.0 IN.



TEST PLATFORM
 ELEVATION 233.0 FT.

ELECTROSTATIC
 PRECIPITATOR

DOCUMENT III.D.7
OPERATION AND MAINTENANCE PLAN

E.U.1., UNIT NO. 1—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 50 tons fuel/hour at 12,570 Btu/lb
2. Operating pressure: 1,575 psi
3. Operating temperature: 1,000°F
4. Maximum design steam capacity: 910,000 lbs/hr

B. Particulate Control Equipment Data:

1. Control equipment designator: electrostatic precipitator
2. Electrostatic precipitator manufacturer: Combustion Engineering, Inc.
3. Design flow rate: 440,000 ACFM
4. Primary voltage: 460 volts
5. Primary current: 258 amps
6. Secondary voltage: 56.6 kilovolts
7. Secondary current: 1,500 milliamps
8. Design efficiency: 99.09 percent
9. Pressure drop: 1.59 inches H₂O (average)
10. Rapper frequency: 1/1.5 min. - 1/4.0 min. (average)
11. Rapper duration: impact
12. Gas temperature: 260± 55°F (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (continuous opacity monitor [COM])

Steam pressure

Steam temperature

Steam flow

Daily Recorded and Inspected

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded and Inspected

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.2., UNIT NO. 2—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 50 tons fuel/hour at 12,570 Btu/lb
2. Operating pressure: 1,580 psi
3. Operating temperature: 1,000°F
4. Maximum design steam capacity: 950,000 lbs/hr.

B. Particulate Control Equipment Data:

1. Control equipment designator: electrostatic precipitator
2. Electrostatic precipitator manufacturer: Combustion Engineering, Inc.
3. Design flow rate: 440,000 ACFM
4. Primary voltage: 460 volts
5. Primary current: 258 amps
6. Secondary voltage: 56.6 kilovolts
7. Secondary current: 1,500 milliamps
8. Design efficiency: 99.09 percent
9. Pressure drop: 1.59 inches H₂O (average)
10. Rapper frequency: 1/1.5 min. - 1/4.0 min. (average)
11. Rapper duration: impact
12. Gas temperature: 250± 55°F (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (COM)

Steam pressure

Steam temperature

Steam flow

Daily Recorded and Inspected

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded or Inspection/Maintenance

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.3., UNIT NO. 3—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 65 tons fuel/hour at 12,300 Btu/lb.
2. Operating pressure: 1,980 psi.
3. Operating temperature: 1,000°F.
4. Maximum design steam capacity: 1,160,000 lbs/hr.

B. Particulate Control Equipment Data:

1. Control equipment designator: electrostatic precipitator
2. Electrostatic precipitator manufacturer: Combustion Engineering, Inc.
3. Design flow rate: 574,000 ACFM
4. Primary voltage: 460 volts
5. Primary current: 172 amps
6. Secondary voltage: 56.6 kilovolts
7. Secondary current: 1,000 milliamps
8. Design efficiency: 99.07 percent
9. Pressure drop: 1.6 inches H₂O (average)
10. Rapper frequency: 1/1.5 min. - 1/4.0 min. (average)
11. Rapper duration: impact
12. Gas temperature: 250± 55°F (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (COM)

Steam pressure

Steam temperature

Steam flow

Daily Recorded and Inspected

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded or Inspection/Maintenance

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.4., UNIT NO. 4—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 80 tons fuel/hour at 11,669 Btu/lb.
2. Maximum design steam capacity: 1.26×10^6 lbs/hr
3. Operating steam pressure: 1,890 psi
4. Operating steam temperature: 1,000°F.

B. Particulate Control Equipment Data:

1. Control equipment designator: electrostatic precipitator
2. Electrostatic precipitator manufacturer: Combustion Engineering, Inc.
3. Design flow rate: 631,000 ACFM
4. Primary voltage: 460 volts
5. Primary current: 172 amps
6. Secondary voltage: 56.6 kilovolts
7. Secondary current: 1,000 milliamps
8. Design efficiency: 99.05 percent
9. Pressure drop: 1.58 inches of H₂O (average)
10. Rapper frequency: 1/1.5 min. - 1/3.5 min. (average)
11. Rapper duration: impact
12. Gas temperature: $250 \pm 55^\circ\text{F}$ (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (COM)

Steam pressure

Steam temperature

Steam flow

Daily Recorded and Inspected

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded or Inspection/Maintenance

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.5., UNIT NO. 5—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 93.4 tons fuel/hour at 12,227 Btu/lb.
2. Operating pressure: 2,250 psi.
3. Operating temperature: 1,000°F.
4. Maximum design steam capacity: 1,660,000 lbs/hr.

B. Particulate Control Equipment Data:

1. Control equipment designator: two electrostatic precipitators
2. Electrostatic precipitator manufacturer: Research Cottrell, Inc.
3. Design flow rate: 820,000 ACFM; 700,000 ACFM
4. Primary voltage: 400 volts; 400 volts
5. Primary current: 240 amps; 195 amps
6. Secondary voltage: 53.5 kilovolts; 64.5 kilovolts
7. Secondary current: 1,500 milliamps; 1,000 milliamps
8. Design efficiency: 99.78 percent; 98.5 percent
9. Pressure drop: 0.5 inches H₂O (average); 0.5 inches H₂O (average)
10. Rapper frequency: 1/2.0 min. (average) - 1/2.0 min. (average)
11. Rapper duration: impact
12. Gas temperature: 293°F (average); 289°F (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (COM)

Steam pressure

Steam temperature

Steam flow

Daily Recorded or Inspection/Maintenance

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded or Inspection/Maintenance

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.6., UNIT NO. 6—SOLID FUEL-FIRED STEAM GENERATOR
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Design fuel consumption rate at maximum continuous rating: 151.4 tons fuel/hour at 12,543 Btu/lb.
2. Operating pressure: 2,600 psi.
3. Operating temperature: 1,000°F.
4. Maximum design steam capacity: 2,700,000 lbs/hr.

B. Particulate Control Equipment Data:

1. Control equipment designator: electrostatic precipitator
2. Electrostatic precipitator manufacturer: Research Cottrell, Inc.
3. Design flow rate: 1,350,000 ACFM
4. Primary voltage: 430-480 volts
5. Primary current: 241 amps
6. Secondary voltage: 53.5 kilovolts
7. Secondary current: 1,500 milliamps
8. Design efficiency: 98.5 percent
9. Pressure drop: 0.5 inches H₂O (average)
10. Rapper frequency: 1/2.0 min. (average)
11. Rapper duration: impact
12. Gas temperature: 293°F (average)

- C. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions (COM)

Steam pressure

Steam temperature

Steam flow

Daily Recorded or Inspection/Maintenance

Electrostatic Precipitator

Primary current

Secondary voltage

Secondary current

Monthly Recorded or Inspection/Maintenance

Fuel input (recorded)

Inspect insulator compartment heaters/blowers. Service as needed.

Observe operation of all rapper and transformer/rectifier controls. Service as needed.

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years and shall be made available to the Florida Department of Environmental Protection or the Environmental Protection Commission of Hillsborough County upon request.

E.U.7., UNIT NO. 7—COMBUSTION TURBINE NO. 1

OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Fuel: distillate No. 2 fuel oil
2. Maximum fuel firing rate: 1,885 gal/hr at 135,810 Btu/gal
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 plan requires that at least each quarter a mechanic complete a preventative maintenance 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.

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 online. The above records shall be maintained in a form suitable for inspection, retained for a minimum of 2 years, and made available to the Florida Department of Environmental Protection and the Environmental Protection Commission of Hillsborough County upon request.

E.U.8., UNIT NO. 8—FUEL BUNKER ROTO-CLONES

OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters:

1. Source designators: Units 1-6 fuel bunkers
2. Control device manufacturer: American Air Filter Company
3. Model name and number: Roto-Clone Dynamic Precipitator Type D
4. Design flow rate: 9,600 ACFM, Units 1-4 and 6
5,400 ACFM, Unit 5.
5. Efficiency rating at design capacity: 75.0 percent
6. Process controlled by collection system: Units 1-6 fuel bunkers
7. Fuel handling rate: 1,600 tpy for each of the six fuel bunkers
8. Operation schedule: 8,760 hrs/yr (24 hrs/day, 7 days/week,
52 weeks/yr)

B. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Quarterly:

1. Motor Inspection

Annually:

1. Piping Inspection
2. Fan Inspection

C. Records

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of 2 years, and made available to the Florida Department of Environmental Protection and the Environmental Protection Commission of Hillsborough County upon request.

E.U.9., UNIT NO. 9—FUEL HANDLING AND STORAGE AND
E.U.14.—OTHER MATERIAL HANDLING AND STORAGE
OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters

1. For all sources covered under this permit, permitted operation schedule:
24 hrs/day, 7 days/week, 52 weeks/yr.
2. Equipment data:
Conveyor hoods: corrugated aluminum
Transfer point enclosures: carbon steel
3. Wet dust suppression:
Manufacturer: Martin Marietta

B. Inspection and Maintenance Procedures:

The fuel yard particulate control equipment receives regular preventative maintenance as follows:

Conveyor enclosures:

1. Daily random visual inspections of conveyor hoods.
2. Daily random visual inspections of the transfer points chute work.

Dust suppression system:

1. Quarterly inspection of system for water leaks.
2. Quarterly inspection of spray nozzles.

The pumps, tanks, etc., that makeup the dust suppression system undergo normal maintenance including lubrication, flushing, and draining.

Should these procedures indicate repairs are necessary, maintenance job requests are initiated. All records are maintained for a minimum of 2 years.

E.U.10., UNIT NO. 10—FLY ASH SILO NO. 2

OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters

1. Baghouse manufacturer: Allen-Sherman-Hoff Corporation
2. Model name and number: Flex Kleen 84 WRW C112IIG
3. Design flow rate: 4,696 ACFM
4. Efficiency rating at design capacity: 99.9 percent
5. Pressure drop: 8 inches water (maximum)
6. Air to cloth ratio: 2:1
7. Bag material: polyester HCE
8. Filter cleaning method: Pulse jet at 100 psig
9. Gas flow rate: 4,696 ACFM
10. Gas temperature: inlet, 300°F, outlet: 350°F
11. Stack height above ground: 3 at 107 feet
12. Exit diameter: 3 at 12 inches
13. Exit velocity: 33 fps
14. Operation schedule: 8,760 hrs/yr (24 hrs/day, 7 days/week, 52 weeks/yr)

B. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop—inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.).
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper, if necessary.

C. Records

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last 2 years and shall be made available to the Florida Department of Environmental Protection or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request.

E.U.11., UNIT NO. 11—FLY ASH SILO NO. 1

OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters

1. Baghouse manufacturer: United States Filter Corporation
2. Model name and number: Mikro-Pulsaire Unit #1F3-24
3. Design flow rate: 11,300 ACFM
4. Efficiency rating at design capacity: 99.9 percent
5. Pressure drop: 5 inches water (maximum)
6. Air to cloth ratio: 5:1
7. Bag material: polyester HCE
8. Filter cleaning method: Pulse jet at 100 psig
9. Gas flow rate: 11,300 ACFM
10. Gas temperature: inlet and outlet; 300°F
11. Stack height above ground: 104 feet
12. Exit diameter: 18 inches by 26 inches
13. Exit velocity: 58 fps
14. Operation schedule: 8,760 hrs/yr (24 hrs/day, 7 days/week,
52 weeks/yr)

B. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop—inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.).
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper, if necessary.

C. Records

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last 2 years and shall be made available to the Florida Department of Environmental Protection or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request.

Wrong GV IV for this plant is
Unit 5-6 Bag Mill & Stack
Loading

E.U.12., UNIT NO. 4—ECONOMIZER FLY ASH SILO

OPERATION AND MAINTENANCE FOR PARTICULATE CONTROL

A. Process System Performance Parameters

1. Baghouse manufacturer: Micropul Corporation
2. Model name and number: 365-10-30
3. Design flow rate: 830 ACFM
4. Efficiency rating at design capacity: 99.9 percent
5. Pressure drop: 6 inches water (maximum)
6. Air to cloth ratio: 2:1
7. Bag weave: not specified
8. Bag material: Nomex
9. Bag cleaning conditions: Pulse jet at 100 psig
10. Gas flow rate: 830 ACFM
11. Gas temperatures: inlet, 350°F; outlet: 350°F
12. Stack height above ground: 72 feet
13. Exit diameter: 8 inches
14. Exit velocity: 21 fps
15. Water vapor content: 29 percent
16. Operation schedule: 24 hrs/day, 7 days/week, 52 weeks/yr

last dust suppressant syst
95% is offhand
in use for 70-80% offhand

B. The following observations, checks, and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Check pressure drop and operation of manometer at each shift change (three times daily).
2. Observe stack (visual), and change filter bags as necessary. Document date and number of bags replaced.
3. Walk through system listening
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel for abnormal operation.
6. Check reverse air pressure.

7. Assure that dust is being removed from system. Unplug hopper if required.

C. Records

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last 2 years and shall be made available to the Florida Department of Environmental Protection or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request.

APPENDIX B
EMISSION RATE SUMMARY

Tampa Electric Company
F.J. Gannon Station – Summary of Emission Rates

A. Criteria Pollutants

Emissions Unit	Emission Rates (ton/yr)	
	SO ₂	PM
Unit 1	13,213.6	688.2
Unit 2	13,213.6	688.2
Unit 3	16,808.7	875.5
Unit 4	19,702.5	1,027.1
Unit 5	24,009.4	1,250.5
Unit 6	39,924.6	2,079.4
CT-1	567.4	534.8
Totals	127,439.8	7,143.7

APPENDIX C
EMISSION INVENTORY WORKSHEETS

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-001

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 1
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-001

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	1,257	2.4	3,016.8	13,213.6
PM	1,257	0.3	377.1	688.2

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit AO29-204434, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

Data Collected by: A. Trbovich Date: 10/24/94
 Evaluated by: V. Brueggemeyer Date: 8/3/95
 Data Entered by: A. Trbovich Date: 4/15/96
 Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-002

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 2
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-002

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	1,257	2.4	3,016.8	13,213.6
PM	1,257	0.3	377.1	688.2

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit AO29-189206, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

DATA CONTROL

Data Collected by: A. Trbovich Date: 10/24/94
 Evaluated by: V. Brueggemeyer Date: 8/3/95
 Data Entered by: A. Trbovich Date: 4/15/96
 Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-003

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 3
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-003

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	1,599	2.4	3,837.6	16,808.7
PM	1,599	0.3	479.7	875.5

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit AO29-172179, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

DATA CONTROL

Data Collected by: A. Trbovich Date: 10/24/94
 Evaluated by: V. Brueggemeyer Date: 8/3/95
 Data Entered by: A. Trbovich Date: 4/15/96
 Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-004a,b

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 4
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-004a,b

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	1,876	2.4	4,502.4	19,720.5
PM	1,876	0.3	562.8	1,027.1

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit A029-255208, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

DATA CONTROL

Data Collected by:	A. Trbovich	Date:	10/24/94
Evaluated by:	V. Brueggemeyer	Date:	8/3/95
Data Entered by:	A. Trbovich	Date:	4/15/96
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-005

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 5
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-005

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	2,284	2.4	5,481.6	24,009.4
PM	2,284	0.3	685.2	1,250.5

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit AO29-203511, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

DATA CONTROL

Data Collected by: A. Trbovich Date: 10/24/94
 Evaluated by: V. Brueggemeyer Date: 8/3/95
 Data Entered by: A. Trbovich Date: 4/15/96
 Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – F. J. Gannon Station

CS-006

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 6
 Emission Control Method(s)/ID No.(s): Electrostatic Precipitator (ESP)
 Emission Point ID: CS-006

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu)
 Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/ 2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Controlled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	3,798	2.4	9,115.2	39,924.6
PM	3,798	0.3	1,139.4	2,079.4

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Maximum Heat Input	TEC, 1996.
Controlled Emission Rates; SO ₂ , PM	Permit AO29-203511, Specific Conditions, as verified by stack testing.

NOTES AND OBSERVATIONS

1. SO₂ hourly emission rate is a weekly average.
2. Units 1 through 6 will not emit more than a combined total of 10.6 ton/hour of SO₂ on a weekly average basis.
3. PM emission rates based on 0.3 lb/MMBtu for 3 hrs/day (soot blowing) and 0.1 lb/MMBtu for 21 hrs/day.

DATA CONTROL

Data Collected by:	A. Trbovich	Date:	10/24/94
Evaluated by:	V. Brueggemeyer	Date:	8/3/95
Data Entered by:	A. Trbovich	Date:	4/15/96
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric – F.J. Gannon Station

CS-007

EMISSION SOURCE TYPE

COMBUSTION TURBINE (DISTILLATE FUEL OIL) – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Combustion Turbine 1

Emission Control Method(s)/ID No.(s): None

Emission Point ID: CS-007

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/10MMBtu)

Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Rate (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/2,000 lb)

Source: ECT, 1994.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Fuel Sulfur: 0.5 Wt. Pct.

Criteria Pollutant	Heat Input (MMBtu/hr)	Uncontrolled Pollutant Emission Rate (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	256.5	1.01 * S	129.5	567.4
PM	256.5	0.476	122.1	534.8

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1996.
Fuel Sulfur (S)	TEC, 1996.
Heat Input	TEC, 1996.
Uncontrolled Emission Factors, SO ₂	Table 3.1-2., Section 3.1, AP-42, January 1995.
Uncontrolled Emission Factors, PM	Permit AO29-252615, Specific Conditions.

NOTES AND OBSERVATIONS

1. PM emission rate represents solid particulate matter.

DATA CONTROL

Data Collected by:	A. Trbovich	Date:	10/25/94
Evaluated by:	V. Brueggemeyer	Date:	12/11/94
Data Entered by:	A. Trbovich	Date:	4/15/96
Reviewed by:		Date:	

APPENDIX D
CURRENT PERMITS

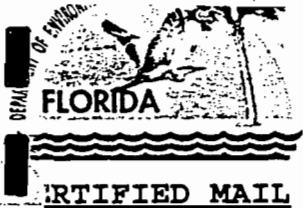
Department of
Environmental Protection

BEST AVAILABLE COPY

RECEIVED

OCT 14 1994

ENVIRONMENTAL
Virginia B. Wetherell
PLANNING Secretary



Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

OCT 11 1994

Lawton Chiles
Governor

Mr. Patrick A. Ho, P.E., Manager
Environmental Planning
Tampa Electric Company (TEC)
Post Office Box 111
Tampa, Florida 33601-0111

Hillsborough County

NOTICE OF PERMIT AMENDMENTS

- RE: FDEP Permits: ~~AO29-204434~~ - F.J. Gannon Station No. 1
 AO29-172179 - F.J. Gannon Station No. 3
 AO29-160269 - F.J. Gannon Station No. 4
 AO29-203511 - F.J. Gannon Station No. 5
 AO29-203512 - F.J. Gannon Station No. 6

On September 2, 1994, the Southwest District Office of the Department of Environmental Protection (Department), received your request for amendments to the above listed FDEP air pollution operating permits. The Department has reviewed and approved the request and hereby amends FDEP Permits AO29-204434, AO29-172179, AO29-160269, AO29-203511, and AO29-203512 as follows:

FDEP Permit AO29-204434, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

^{Y6} 6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of February 19. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required.

(Continued On Next Page)

FDEP Permit AO29-204434, Specific Condition No. 6. (Continued)

In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources - Emission Monitoring and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-172179, Specific Condition No. 5.

Change Specific Condition No. 5 to read as follows:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of November 13. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources - Emission Monitoring and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

FDEP Permit AO29-160269, Specific Condition No. 5.

Change Specific Condition No. 5 to read as follows:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of May 9. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-203511, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of April 15. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required.

(Continued On Next Page)

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

FDEP Permit AO29-203511, Specific Condition No. 6. (Continued)

In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

FDEP Permit AO29-203512, Specific Condition No. 6.

Change Specific Condition No. 6 to read as follows:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of June 19. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

A person whose substantial interests are affected by these permit amendments 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 amendment. The 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 Numbers 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, if any;
- (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 these permit amendments. 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.

(Continued on Next Page)

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

These permit amendments are 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 amendment will not be effective until further Order of the Department.

When the Order (Permit Amendments) 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.

This letter or a copy of this letter must be attached to and become a part of FDEP Permits AO29-204434, AO29-172179, AO29-160269, AO29-203511, and AO29-203512.

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



For Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

copy to: Ms. Janice Taylor - TEC
Mr. Richard Kirby, EPCHC

4tecxxx1.pmt

Mr. Patrick A. Ho, P.E.
Tampa Electric Company (TEC)

F.J. Gannon Sta. Units 1, 3-6

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENTS and all copies were mailed before the close of business on OCT 11 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.

Marilyn Quispe
Clerk

OCT 11 1994
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

Mr. Patrick A. Ho, P.E.
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

RECEIVED

FEB 7 1995

ENVIRONMENTAL
PLANNING

Dear Mr. Ho:

Re: Air Permit Amendment Request Dated 01/18/95
DEP File Nos. A029-250137, A029-250139 & A029-250140

Pursuant to the meeting between TEC, DEP & the EPCHC on 01/12/95 and your request received 01/18/95, the following amendments are hereby made in the above referenced air operating permits:

Permit Number A029-250139, Units 1-6 Coal Bunker Rotoclones:

Specific Condition No. 4:

Change From:

4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 60 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Change To:

4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 90 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Specific Condition No. 7:

Change From:

7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

Permit Number A029-250140, F. J. Gannon Station Units 1-4 Fly Ash Silo with Baghouse:

Specific Condition No. 4:

Change From:



4. Test the emissions from the fly ash silo annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Change To:

4. Test the emissions from the fly ash silo annually for the following pollutants within 90 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

(X) Particulate Matter (X) Visible Emissions

Permit Number AO29-250137, F. J. Gannon Station Units 5 and 6
Fly Ash Silo with Baghouse and Pug Mill:

Specific Condition No. 4:

Change From:

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

*(X) Particulate Matter **(X) Visible Emissions
*(X) Visible Emissions

Change To:

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 90 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 62-297.340 and 62-297.570, F.A.C.).

*(X) Particulate Matter **(X) Visible Emissions
*(X) Visible Emissions

Permit Number A029-250137, F. J. Gannon Station Units 5 and 6
Fly Ash Silo with Baghouse and Pug Mill:

Specific Condition No. 8:

Change From:

8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum loading rate, is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.5 tons/hour. Determination of the process rate will be done by the operating procedures as outlined in Specific Condition No. 7 above and employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum loading rate, is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

Permit Number AO29-250140, F. J. Gannon Station Units 1-4 Fly
Ash Silo with Baghouse:

Specific Condition No. 8:

Change From:

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Change To:

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of the process rate will be done by the operating procedures as outline in Specific condition No. 7 above and employed on a consistant basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 62-4.070(3), F.A.C.).

The petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's 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 subsequent interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant 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 amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the permit amendment have a 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 permit amendment, 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 right such person has to request a hearing under Section 120.57, Florida Statutes, 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, Florida Administrative Code.

This permit amendment 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 an extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, Florida Administrative Code. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

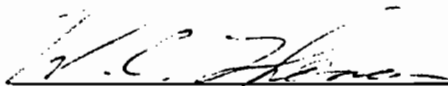
Mr. Patrick A. Ho, P.E.
Tampa, FL 33601-0111

Page Seven

When the Order (Permit Amendment) 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 Appellant Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

This amendment letter or a copy of this letter must be attached to and becomes a part of air operating permits number AO29-250137, AO29-250139 and AO29-250140. If you have any questions, please contact George Richardson in the Air Permitting Section at (813)744-6100, Ext. 105.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Per Dr. Richard D. Garrity, Ph.D.
Director of District Management
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100

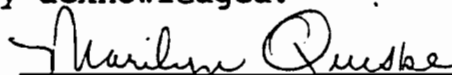
cc: Environmental Protection Commission of
Hillsborough County

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this Notice of Permit Amendment and all copies were mailed by certified mail before the close of business on FEB 06 1995 to the listed persons.

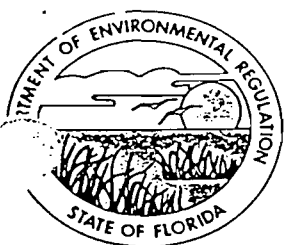
FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to Paragraph 120.52(11), Florida Statutes, with the designated Deputy Department Clerk, receipt of which is hereby acknowledged.


Clerk

FEB 06 1995

Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347
Lawton Chiles, Governor • 813-623-5561 • Carol M. Browner, Secretary

Condition 6 Amended

RECEIVED

JAN 20 1992

**ENVIRONMENTAL
PLANNING**

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-204434
County: Hillsborough

Enclosed is Permit Number A029-204434 to operate the Gannon Station Unit No. 1 steam generator designated as Unit No. 1, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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 Stone 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.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,

J. Harry Kerns
J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on JAN 17 1992 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.

A Marilyn Quispe
Clerk

JAN 17 1992
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7

Lawton Chiles, Governor

813-623-3561

Carol M. Browner, Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION

Permit No: A029-204434
County: Hillsborough
Expiration Date: 01/31/97
Project: Gannon Station Unit
No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 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 of hereof and specifically described as follows:

For the operation of a 1257 MMBTU/hr. coal fired steam generator designated as Unit No. 1. This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is of the cyclone firing type. The generator has a nameplate capacity of 125 MW. Particulate emissions are controlled by a Combustion Engineering, Inc. electrostatic precipitator.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 01

Replaces Permit No.: A029-125315

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS:

Already in General Title ✓
1. A part of this permit is the attached 15 General Conditions.

A3
2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]

A4
3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.]

A5
4. The maximum allowable SO₂ emission rate from Unit No. 1 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

A6
5. Excess Emissions:

A Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]

B Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]

C Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

- ~~D.~~ Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

A16
* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

A7 ~~amended~~
6. Unit No. 1 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of February 19, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A 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 such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

A5
~~test procedures~~
7. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 1257 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 1257 MMBtu/hr. The actual heat input rate shall be specified in each test.

A8
No full cite - Similar to 62-297.310(2)

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

AS
8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

Part Reporting

A-14
9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

Part Emission Limiting ← [296.405(c) 2.9.

A-15
10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

CEM Requirements See 297

- (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.

reporting unit this unit wide facility

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

A-9
11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

RACT for PM

- A. Process System Performance Parameters:
 1. Source Designator: Gannon Unit No. 1
 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
50 tons coal/hour
 3. Operating Pressure: 1,575 psi
 4. Operating Temperature: 1000° F.
 5. Maximum Design Steam Capacity: 910,000 pounds per hour

62-296.700 (6) (d)

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion Engineering, Inc.
3. Design Flow Rate: 440,000 ACFM
4. Primary Voltage: 460 volts
5. Primary Current: 258 amps
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1,500 milliamps
8. Design Efficiency: 99.09%
9. Pressure Drop: 1.59 in. H₂O (avg)
10. Rapper Frequency: - 1/1.5 min. - 1/4.0 min. (avg)
11. Rapper Duration: Impact
12. Gas Temperature: 260± 55° F. (avg)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded
Opacity

Steam pressure
Steam temperature
Steam Flow

continuous monitoring

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monitoring operations

62-296.700 (6)(d)

Monthly

Inspect insulator compartment heaters/blowers. Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.].

Record keeping

Rule 62-296.700(e)

A13

already in Title V general condition.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-204434
PROJECT: Gannon Station Unit No. 1

SPECIFIC CONDITIONS: (continued) *repealed* 62-296.320(4)(c)1.

201 *already done*
12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitators and the ductwork for gas leaks at least once a month. Note any problems and action taken.

A10
13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C. *CMR 296.405 (5)*

A12
14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.] *compliance procedure 297.310(2)(g)9.*

15. An original application to renew this operating permit and three (3) copies, with original seals and signatures, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit. [Rule 17-4.090, F.A.C.] *This is already done under facility wide*

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION



Richard Garrity, Ph.D.
Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

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, 403.161, 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 this 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 and used by the permittee to achieve compliance with the conditions of this permit, are 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 reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under 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 noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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 403.111 and 403.73, 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 Rule 17-4.120 and 17-730.300, Florida Administrative Code, 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 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)
- () 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:

- (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:
 - 1. the date, exact place, and time of sampling or measurements;
 - 2. the person responsible for performing the sampling or measurements;
 - 3. the dates analyses were performed;
 - 4. the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used;
 - 6. 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 the 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.



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347

Lawton Chiles, Governor

Carol M. Browner, Secretary

RECEIVED

NOTICE OF PERMIT

FEB 8 1991

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT ISSUANCE

February 7, 1991

In the Matter of an Application
for Permit by:

DER File No. A029-189206
Hillsborough County

Mr. Jerry L. Williams
Director - Environmental
Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111

Enclosed is permit number A029-189206 to operate the F. J. Gannon Station, No. 2 Boiler, issued pursuant to Section 403, Florida Statutes.

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 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, if any;

(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 allowed time frame constitutes a waiver of any right 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 Stone 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 REGULATION

Gary A. Maier

Gary A. Maier, BS ChE, JD

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all
copies were mailed before the close of business on
FEB - 7 1991 to the listed persons.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant
to Section 120.52(9), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.

Sharilyn Quispe FEB - 7 1991
Clerk Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7

Lawton Chiles, Governor

Carol M. Browner, Secretary

Was not amended

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

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 1,257 MM Btu/hour coal fired steam generator designated as Unit No. 2. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclonic firing type. The generator has a nameplate capacity of 125 MW.

Particulate matter (PM) emissions are controlled by a Combustion Engineering, Inc. electrostatic precipitator. Sulfur dioxide emissions (SO₂) resulting from the combustion of fuel are determined by periodic sampling and analysis of the fuel.

Location: Port Sutton Road, Tampa

UTM: 17-359.9 E 3087.5 N NEDS NO: 0040 Point ID: 02

Replaces Permit No.: AO29-112412

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

check
SPECIFIC CONDITIONS:

B1
1. A part of this permit is the attached 15 General Conditions.

B2
2. Except as provided in specific condition #5; the particulate matter emission rate for this source shall not exceed 0.1 pound per million Btu heat input, over a two hour average.
[Rule 17-2.600(5)(a)2., F.A.C.]

B4
3. Except as provided in specific condition #5; visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%.
[Rule 1-3.63(d), Rules of the Hillsborough County Environmental Protection Commission, Section 403.182(6), F.S., and Rule 17-2.600(5)(a)1., F.A.C.]

B5
4. The sulfur dioxide emission rate for this source shall not exceed 2.4 pounds of sulfur dioxide per million Btu heat input on a weekly average. Francis J. Gannon units 1 through 6 in total shall not emit more than 10.6 tons per hour of sulfur dioxide on a weekly average.
[Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

B6
5. Excess Emissions:

X
A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized. [Rule 17-2.250(2), F.A.C.]

X
B. Excess emissions resulting from boiler cleaning (soot blowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing: (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions is minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]

PERMITTEE:

Tampa Electric Company
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PERMIT/CERTIFICATION

Permit No: A029-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

C. Excess emissions resulting from malfunctions* are permitted providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions is minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.].

D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.].

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.].

6. This source shall be stack tested for particulate matter and visible emissions, under both sootblowing and non-sootblowing operation conditions, at intervals of 12 months from the date of August 28, 1990, or within a 90 day period prior to that annual date. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. The visible emissions DER Method No. 9 test period for this source shall be at least 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A 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 such testing.

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-189206
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Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

7. This source shall be stack tested for sulfur dioxide at intervals of 12 months from the date of August 28, 1990, or within a 90 day period prior to that annual date. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.. A 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 such testing.

8. Compliance testing for particulate matter emissions and visible emissions may be conducted either: (a) without fly ash re-injection occurring, or (b) while fly ash collected by the precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate. If the most recent particulate and visible emissions compliance tests were conducted without fly ash re-injection occurring, and fly ash re-injection occurs for any reason other than a malfunction, then the results from new particulate and visible emissions compliance tests conducted while fly ash collected by the precipitator is being re-injected into the boiler at a rate which is representative of the maximum anticipated fly ash re-injection rate shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 60 days of the date that such fly ash re-injection occurred. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60 day time limit on a case by case basis.
[Rule 17-4.070(3), F.A.C.]

Handwritten notes:
...
...
...

8/14 9. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan previously submitted by Tampa Electric Company and incorporated by reference. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.
[Rules 17-4.070(3) and 17-2.600(5)(a)3.b.(i), F.A.C.]

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: A029-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

B11 10. Tampa Electric Company shall submit to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County a written report of emissions in excess of the emission limiting standards as set forth in Rule 17-2.600(5) for each calendar quarter. The nature and cause of the excessive emissions shall be explained. This report does not relieve Tampa Electric Company of the legal liability for violations. All recorded data shall be maintained on file for a period of at least 2 years. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51-Appendix P. The report shall be submitted within 30 days following each calendar quarter. [Rules 17-2.710(1), 17-2.710(2), and 17-4.070(3), F.A.C.].

B9 11. Operation and Maintenance Plan for Particulate Control [Rule 17-2.650(2), F.A.C.].

A. Process System Performance Parameters:

1. Source Designators: Gannon Unit No. 2
2. Design Fuel Consumption Rate at Maximum Continuous Rating: 51 tons coal/hour
3. Operating Pressure: 1580 p.s.i.
4. Operating Temperature: 100 degrees F.
5. Maximum Design Steam Capacity: 950,000 pounds per hour

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion Engineering, Inc.
3. Design Flow Rate: 440,000 ACFM
4. Primary Voltage: 460 volts
5. Primary current: 258 amps.
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1500 milliamps.
8. Design Efficiency: 99.09%
9. Pressure Drop: 1.59 inches of H2O (avg.)
10. Rapper Frequency: 1/1.5 min. - 1/4.0 min. (avg.)
11. Rapper Duration: Impact
12. Gas Temperature: 250+55 degrees F. (avg.)

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PERMIT/CERTIFICATION
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Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

B9

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

- Visible Emissions
- Steam Pressure
- Steam Temperature
- Steam Flow

Daily

- Fuel Input
- Primary Voltage
- Primary Current
- Secondary Voltage
- Secondary Current
- Inspect system controls. Make Minor adjustments as needed.

Monthly

- Inspect insulator compartment heaters/blowers. Service as needed.
- Observe operation of all rapper and transformer/rectifier controls.
- Inspect for leaks in the boiler, electrostatic precipitator, and associated duct work, and take corrective action if leaks develop.

D. 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 of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request.
[Rule 17-2.650(2)(g)5., F.A.C.]

#13

BEST AVAILABLE COPY

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No.-2

SPECIFIC CONDITIONS:

B8 12. The maximum permitted heat input rate for this source is 1,257 million Btu per hour. Approved compliance testing of emissions shall be conducted within $\pm 10\%$ of the maximum permitted heat input rate, when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60 day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. Emission limitations are not automatically adjusted above the allowable levels established by the permit and/or the design process rate. The actual heat input rate shall be specified in each test report. Failure to submit the actual heat input rate, or operation at conditions during testing which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance.
[Rule 17-4.070(3), F.A.C.]

B12 13. Tampa Electric Company shall notify 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 for the owner. The Environmental Protection Commission of Hillsborough County may waive the 15 day notice requirement on a case by case basis.
[Rule 17-2.700(2)(a)9., F.A.C.]

B10 14. A continuous monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL -33601

PERMIT/CERTIFICATION

Permit No: A029-189206
County: Hillsborough
Expiration Date: 02/06/96
Project: F.J. Gannon Station
Unit No. 2

SPECIFIC CONDITIONS:

FW/e *Already taken care of in TV General*

15. Pursuant to Chapter 403-061(13), Florida Statutes, submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information:

- (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.

An emissions report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

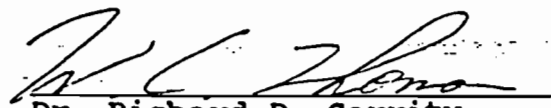
Already done

16. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 17-2, F.A.C., or any other requirements under federal, state, or local law. [Rule 17-2.210, F.A.C.]

Already done in FW/e

17. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County by December 8, 1995. [Rules 17-4.050(2) and 17-4.090(1), F.A.C.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

For

Dr. Richard D. Garrity
Deputy Assistant Secretary
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
Phone (813) 623-5561

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, 403.161, 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 this 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 and used by the permittee to achieve compliance with the conditions of this permit, are 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 reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under 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 noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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 403.111 and .73, 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 Rule 17-4.120 and 17-730.300, Florida Administrative Code, 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 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)
- () Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- () Compliance with New Source Performance Standards

4. 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:
 - 1. the date, exact place, and time of sampling or measurements;
 - 2. the person responsible for performing the sampling or measurements;
 - 3. the dates analyses were performed;
 - 4. the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used;
 - 6. 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 the 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.



Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

NOTICE OF TDF TEST AUTHORIZATION

Mr. Philip J. Matonte, P.E.
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

RECEIVED

MAR 7 1996

ENVIRONMENTAL
PLANNING

Dear Mr. Matonte:

Re: Letters dated 10/20/95 & 12/8/95
Reference Permit No. AO29-172179

Pursuant to Rule 62-4.210(1)(b)6., F.A.C., the Department authorizes your request to conduct a trial test burn of a coal/tire-derived fuel (TDF) mix containing a maximum of 20% TDF by weight at your Gannon Unit 3 facility as proposed. The authorization is granted with the following stipulations:

1. The Tampa Electric Company (TEC) shall notify in writing this office and the Environmental Protection of Commission of Hillsborough County at least 15 days prior to the date on which each formal compliance emission 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.
2. TEC shall notify this office and the EPCHC of the date initial testing of the baseline test, which uses coal only, within 5 days after that date.
3. TEC shall notify this office and the EPCHC of the date of first introducing TDF in Unit 3, within 5 days after that date.
4. The baseline testing shall be conducted for no less than 7 days and no more than 10 days.
6. Trial test burn testing when using TDF shall be conducted for a maximum of 21 days.
7. All testing shall be conducted within 60 days after the date TDF is first introduced into Unit 3.

8. The maximum total amount of TDF that may be used is 13 tons/hr. and 5,000 tons for up to 60 days from the date of first introducing TDF in Unit 3.
9. Only TDF that has a nominal 1 square inch size may be used.
10. Coal used for the baseline tests and trial burn test shall be conducted with coal that has the same typical heat content.
11. No TDF shall be used after 60 days from the date of first introducing TDF in Unit 3. This limitation is applicable even if all testing has been completed before the end of the 60th day of when TDF was first introduced into Unit 3, provided the emission limitations of permit AO29-172179 are not exceeded.
12. Testing during each operating scenario shall be in accordance with the following:
 - A. During each of the baseline and trial burn test periods when stack emission testing is conducted, sulfur dioxide, nitrogen oxides, carbon dioxide, and opacity emissions data shall be reported using continuous emission monitors (CEMS) that are located in the stack. The monitoring systems will be quality assured pursuant to 40 CFR 75, Appendix B. The data assessment report from 40 CFR 60, Appendix F, for the most recent relative accuracy test audit (RATA) and most recent cylinder gas audit (CGA), will be submitted with the test report(s).
 - B. During the baseline test period that only uses coal (steady-state & soot blowing conditions), EPA reference method emission testing shall be performed for particulate matter, visible emissions, and sulfuric acid mist. The EPA Method 17 test for particulates shall include EPA Methods 1, 2, 3, and 4. During these tests Unit 3 shall be operating within 90%-100% of maximum capacity (159 MW output & 65 tons/hr. total fuel input rate).
 - C. During each trial burn test that uses coal and TDF (steady-state & soot blowing conditions), EPA reference method emission testing shall be performed for particulate matter, visible emissions, and sulfuric acid mist. During these tests Unit 3 shall be operating with 90%-100% of maximum capacity (159 MW output & 65 tons/hr. total fuel input rate).

- D. Particulate testing and visible emissions testing shall be conducted when fly ash collected by the ESP is being re-injected into the boiler.
- E. Sulfuric acid mist emission testing shall be conducted when fly ash collected by the ESP is being re-injected into the boiler.
- F. All fuel testing shall be done on coal alone prior to blending with tires.
- G. Composite weekly coal fuel analysis results shall be supplied for the baseline test and the trial burn test. A single representative TDF fuel analysis results shall be supplied for each time the fuel bunker is charged for use during each CEM/stack tested operating scenario. The fuel analysis shall include the following:

Fuel Analysis

Trace Metal Analysis

Sulfur, wt. %	Beryllium
Volatiles, content, wt. %	Chromium
Nitrogen, wt. %	Lead
Ash, wt. %	Mercury
Calorific Value, BTU/lb.	Nickel
Carbon, wt. %	Vanadium
Moisture, wt. %	Zinc
TDF square inch size	
Coal origin (i.e., Eastern Kentucky, Blue Gem, etc.)	

- H. Records of the following operating parameters during each CEM/stack tested operating scenario shall be submitted with the associated test report:
 - 1. Fuel input rates (tons/hr.)
 - 2. Fuel ratio(s) on an hourly basis
 - 3. Opacity, CO, NOx, and SO2 CEM data, (The SO₂ and NO_x CEM data shall be reported in lbs./MMBTU on an hourly average basis)
 - 4. Operating temperatures (degrees F)
 - 5. Operating conditions (soot blowing, load changes, normal operations, fuel additives, etc.)
 - 6. Power output (MW)
 - 7. Air to fuel ratio(s)

13. TEC shall comply with the emission limitations of permit AO29-172179 at all times during the CEM/stack tests, operating scenarios, and operating modes approved by this authorization.
14. TEC shall notify this office and the EPCHC of the date the last test run is conducted within 5 days of that date.
15. All test reports/results shall be submitted to this office and the EPCHC within 45 days of the date of the last test run.
16. If at any time during the use of TDF the emission limitations of permit AO29-172179 are exceeded, TEC shall immediately cease using TDF. Performance testing or continued operation when using TDF shall not resume until the appropriate measures to correct the problem have been corrected and approved by the Department in writing.
17. The trial test burn and other related testing, requested to be conducted, shall be conducted under the supervision of a Florida registered professional engineer. The professional engineer shall sign and seal each copy of the stack test reports and other related information.
18. The use of TDF shall not result in the release of objectionable odors.
19. This authorization expires on June 30, 1996.
20. If additional time is needed to conduct the tests, TEC shall request in writing to this office and the EPCHC an extension of time. The request shall have attached documentation of the progress to date and shall identify what is left to be done to complete the tests.

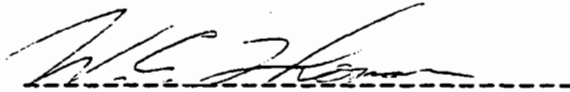
Any party to this Order (authorization) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; 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 this Notice is filed with the Clerk of the Department.

Executed in Tampa, Florida.

Tampa Electric Company
Reference Permit No. AO29-172179
Tire-Derived Fuel Test Authorization

Page 5 of 5

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



W.C. Thomas, P.E.
District Air Program Administrator

cc: EPCHC

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF TDF TEST AUTHORIZATION and all copies were mailed before the close of business on 3/5/96 to the listed persons.

Clerk Stamp

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.

Carol S. Moore 3/5/96
(Clerk) (Date)



BEST AVAILABLE COPY
Department of

Environmental Protection

SEP 15 1994

ENVIRONMENTAL
PLANS

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

Ms. Janice Taylor
Environmental Engineer
Tampa Electric Company (TEC)
Post Office Box 111
Tampa, Florida 33601-0111

September 13, 1994

Dear Ms. Taylor:

RE: F.J. Gannon Unit No. 3
Permit AO29-172179
Stack Test Scheduled for September 20, 1994

On September 2, 1994, the Department received your request for a permit amendment for the F.J. Gannon Unit Nos. 1,3,4,5, and 6. Based on your telephone conversation with Mr. John J. Taylor, on this date, the Department will consider this request as complete. Consequently, you may proceed with the annual stack test for the F.J. Gannon Unit No. 3, scheduled for September 20, 1994, based on the following revised test condition:

5. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of November 13. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

Page 1 of 2

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

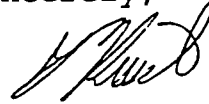
Printed on recycled paper.

Ms. Janice Taylor
Tampa Electric Company (TEC)

September 12, 1994

If you have any questions, please call John J. Taylor, Permit Engineer,
at this Department, at (813) 744-6100, ext. 408.

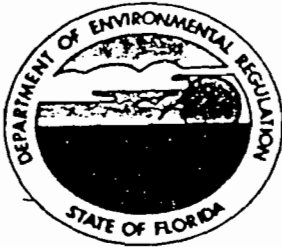
Sincerely,



Gerald Kissel, P.E.
District Air Engineer

copy: Mr. Richard Kirby, EPCHC

tec94179.lt1



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5566

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

May 9, 1990

RECEIVED

MAY 9 1990

ENVIRONMENTAL
PLANNING

Mr. Jerry L. Williams
Director - Environmental
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111

Dear Mr. Williams:

Re: Hillsborough County - AP
Permit Amendment
F.J. Gannon Station Unit No. 3

The Department hereby acknowledges your request to amend permit number A029-172179. The following changes are hereby made in the permit:

CHANGE SPECIFIC CONDITION NO. 5 FROM:

5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of September 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM testing, such as under overcast days, independent VE testing may be performed at a later date within the 5 day testing window. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of 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 such testing.

CHANGE SPECIFIC CONDITION NO. 5 TO:

5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of November 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM

Mr. Jerry L. Williams
Tampa, FL 33601-0111

Page Two

testing, such as under overcast days, independent VE testing may be performed at a later date within the 5 day testing window. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of 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 such testing.

CHANGE SPECIFIC CONDITION NO. 6 FROM:

6. The permitted rate of this source is 159 MW based on the average load at which the September 13, 1989, source emission test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted rate, when practical, and when the fly ash collected by the precipitator is being reinjected into the boiler. A compliance test submitted at operating levels less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until another test (showing compliance) a higher rate is submitted. At any time the permitted rate of this source is exceeded by at least 10%, compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County.

CHANGE SPECIFIC CONDITION NO. 6 TO:

6. The permitted capacity of this source is 159 MW based on the load at which the September 13, 1989, visible emissions test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted capacity, when practical, and when the fly ash collected by the precipitator is being reinjected into the boiler. A compliance test submitted at operating levels less than 90% of the permitted capacity will automatically constitute an amended permit at the lesser rate plus 10% until another test (showing compliance) at 90% of a higher capacity is submitted. If the permitted capacity of this source is exceeded by at least 10%, a compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County. Acceptance of said test will automatically constitute an amended permit at the greater rate plus 10%. Emission limitations are not automatically adjusted above the allowable levels established by the permit and/or the design process rate. The actual fuel consumption rate and power output of the unit shall be specified in each test report. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data (Subsection 403.161(1)(c), Florida Statutes).

Mr. Jerry L. Williams
Tampa, FL 33601-0111

Page Three

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, F.A.C., 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, 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 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.

A copy of this letter must be attached to and becomes a part of permit number A029-172179. If you have any questions, please call Mr. J. Harry Kerns of my staff at (813) 623-5561.

Sincerely,



Richard D. Garrity, Ph.D.
Deputy Assistant Secretary
Southwest District

RDG/SKB/bb

cc: Environmental Protection Commission
of Hillsborough County

Mr. Jerry L. Williams
Tampa, FL 33601-0111

Page Four

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on MAY 9 1990 to the listed persons.

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

Marilyn Gasse MAY 9 1990
Clerk Date

RULES OF THE ADMINISTRATION COMMISSION, MODEL RULES OF PROCEDURE
CHAPTER 28-5, DECISIONS DETERMINING SUBSTANTIAL INTERESTS
PART II, FORMAL HEARINGS
A) PREHEARING PROCEDURES

28-5.201 Initiation of Formal Proceedings.

(1) Initiation of formal proceedings shall be made by petition to the Agency responsible for rendering final Agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.

(2) - All petitions filed under these rules should contain:

(a) The name and address of each Agency affected and each Agency's file or identification number, if known;

(b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the Agency determination;

(c) A statement of when and how petitioner received notice of the Agency decision of intent to render a decision;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;

(f) A demand for relief to which the petitioner deems himself entitled; and

(g) Other information which the petitioner contends is material.

(3) Upon receipt of a petition for formal proceedings, the Agency shall either accept or deny the petition, and if accepted shall elect either to conduct the hearing itself through the Agency head, or member thereof, assign a person authorized by Subsection 120.57(1)(a) or other authority, or request that a Hearing Officer from the Division of Administrative Hearings be assigned to conduct the hearing.

(a) A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the Agency determination, or if the petition is untimely.

(b) The Agency shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefor.

(4) If the Agency elects to request that a Hearing Officer of the Division of Administrative Hearings be assigned to conduct the hearing, the Agency shall forward the petition, and all materials filed with the Agency, to the Division of Administrative hearings, and shall notify all parties of its action.

Specific Authority: 120.53(1), 120.54(10) F.S.
Law Implemented: 120.57 F.S.
History: New 3-23-80

Administrative Hearings Division
Division of Administrative Hearings
State of Florida
Tallahassee, Florida
32399

Section 17-103.155, Florida Administrative Code
 Rules of Administrative Procedure
 Final Agency Action (Non-Rulemaking) and Appeal

17-103.155 Petition for Administrative Hearing; Waiver of Right to Administrative Proceeding.

(1)(a) Any person whose substantial interests may be affected by proposed or final agency action by the Department may file a petition for formal administrative hearing in accordance with this rule if the person disputes the material facts upon which the Department's action is based.

(b) Any person whose substantial interests may be affected by proposed or final action by the Department may file a petition for informal administrative hearing in accordance with this rule if the person objects to the Department's action but does not dispute the material facts upon which the Department's action is based.

(2) A petition for formal or informal administrative hearing pursuant to Section 120.57, F.S., shall contain the following information:

(a) The name, address, and telephone number of each petitioner. If the petitioner challenges a Department action or proposed action on a permit application, the applicant's name and address, the Department Permit File number and the county in which the project is proposed shall also be included;

(b) A statement of how and when each petitioner received notices of the Department 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 those material facts (i.e., those facts upon which the Department's action or proposal is based) is disputed by petitioner. If no facts are disputed, petitioner shall so state;

(e) A statement of facts which petitioner contends warrant 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;

(g) A statement of relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

(3)(a) A petition shall be in the form required by this rule and must be filed (received) in the Office of General Counsel of the Department within the following number of days after receipt or publication (whichever occurs first) of notice of proposed agency action or of notice of agency action:

1. Petitions concerning Department action or proposed action on applications for permits (except permits for hazardous waste facilities): 14 days;

2. Petitions concerning Department action or proposed action on applications for hazardous waste facility permits: 45 days;

3. Petitions concerning notices of violation when no informal conference is held: 20 days after receipt of the notice of violation;

4. Petitions concerning notices of violation when an informal conference is held: 10 days after receipt of notice of completion of the informal conference;

5. Petitions concerning other Department actions or proposed actions: 21 days. The petitioner shall also serve a copy of the petition on all other parties to the proceeding, as identified in the published notice, at the time of filing.

(b) Failure to timely file a petition within the applicable time period after receipt of notice of agency action or receipt of notice of proposed agency action, whichever notice first occurs, shall constitute a waiver if any right to request an administrative proceeding under Chapter 120, F.S.

(4) If a petition is filed that does not substantially comply with the requirements of subsection (2) of this rule, the Department shall issue an order dismissing the petition with leave to file an amended petition complying with the requirements of this rule within 15 days of service of the order. If an amended petition complying with this rule is not filed (received) within 15 days of service of the order, the petitioner's right to a proceeding under Section 120.57, F.S., is waived.

(5) When there has been no publication of notice of agency action or notice of proposed agency action as prescribed in Rule 17-103.150, F.A.C., a person who has actual knowledge of the agency action or has knowledge which would lead a reasonable person to conclude that the Department has taken final agency action, has a duty to make further inquiry within 14 days of obtaining such knowledge by contacting the Department to ascertain whether action has occurred. The Department shall upon receipt of such an inquiry, if agency action has occurred, promptly provide the person with notice as prescribed by Rule 17-103.150, F.A.C. Failure of the person to make inquiry with the Department within 14 days after obtaining such knowledge may stop the person from obtaining an administrative proceeding on the agency action.

(6)(a) "Receipt of notice of agency action" means receipt of written notice of final agency action, as prescribed by Department rule, or the publication, pursuant to Department rule, of notice of final agency action, whichever first occurs.

(b) "Receipt of notice of proposed agency action" means receipt of written notice (such as a letter of intent) that the Department proposes to take certain action, or the publication pursuant to Department rule of notice of proposed agency action, whichever first occurs.

(7) Notwithstanding any other provision in this Chapter, should a substantially affected person who fails to timely request a hearing under Section 120.57, F.S., administratively appeal the final Department action or order, the record on appeal shall be limited to:

(a) the application and accompanying documentation submitted by the applicant prior to the issuance of the agency's intent to issue or deny the requested permit;

(b) the materials and information relied upon by the agency in determining the final agency action or order;

(c) any notices issued or published; and

(d) the final agency action or order entered concerning the permit application.

(8) In such cases where persons do not timely exercise their rights accorded by Section 120.57(1), Florida Statutes, the allegations of fact contained in or incorporated by the final agency action shall be deemed uncontested and true, and appellants may not dispute the truth of such allegations upon subsequent appeal.

(9) Any applicant may challenge the Department's request for additional information by filing with the Office of General Counsel an appropriate petition for administrative proceeding pursuant to Section 120.60, F.S., following receipt by the applicant of the Department's notification pursuant to Section 403.0876, F.S., that additional information is required.

Specific Authority: 120.53, 403.0876, 403.815, F.S.

Law Implemented: 120.53, F.S.

History: New 9-20-79; Amended 4-28-81; Transferred from 17-1.62 and Amended 6-1-84; Amended 10-19-88.



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-556

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

April 26, 1990

RECEIVED

APR 27 1990

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

ENVIRONMENTAL
PLANNING

Mr. Jerry L. Williams
Director - Environmental
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

DER File No.: A029-172179
County: Hillsborough

Enclosed is Permit Number A029-172179 to operate the F.J. Gannon Station Unit No. 3, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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 subsequent interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

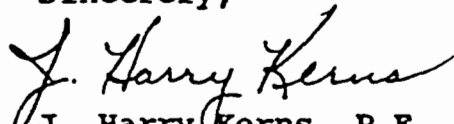
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Tampa Electric Company
Tampa, FL 33601

Page Three

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/SKB/bb

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on APR 26 1990 to the listed persons.

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


clerk

APR 26 1990
Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: AO29-172179
County: Hillsborough
Expiration Date: 04/19/95
Project: F.J. Gannon Station
Unit No. 3

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 in part hereof and specifically described as follows:

For the operation of the F.J. Gannon Station 1599 MMBTU/hr. coal fired steam generator designated as Unit No. 3 equipped with an optional flue gas recirculation (heat recovery) system to maintain steam temperature at low loads. This "wet" bottom boiler was manufactured by Babcock and Wilcox Corporation and is of the cyclonic firing type. The generator has a nameplate capacity of 179.5 MW. Particulate matter emissions generated during the operation of the unit are controlled by a Combustion Engineering, Inc., electrostatic precipitator.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 03

Replaces Permit No.: AO29-95792

Best Available Copy

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS:

in general condition
1. A part of this permit is the attached 15 General Conditions.

C3 ~~3~~ 2. The maximum allowable particulate emission rate for this source shall be 0.1 pounds per MMBTU heat input over a two hour average (Section 17-2.650(2)(c)2.b.(i), F.A.C.), except for any 3 hours during a 24 hour period in which the boiler is being cleaned by sootblowing or experiencing a load change. Under these operating conditions the maximum allowable particulate emission rate shall be 0.3 pounds per MMBTU heat input providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized (Section 17-2.250(3), F.A.C.).

C4 ~~4~~ 3. The maximum opacity from this source shall be 20 percent (Section 17-2.650(2)(c)2.b.(ii), F.A.C.), except for: any 2 minutes during a 60 minute period in which the opacity shall not exceed 40 percent (Section 17-2.600(5), F.A.C.); any 3 hours during a 24 hour period of excess emissions in which the boiler is being cleaned by sootblowing or experiencing a load change the opacity shall not exceed 60%, and allowing four six minute periods during the 3 hours period of unlimited opacity providing best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized (Section 17-2.250(3), F.A.C.); and any excess emission otherwise allowed under Section 17-2.650(1), (2), and (3), F.A.C.

C5 X 4. The maximum allowable SO2 emission rate from this unit shall be 2.4 pounds of SO2 per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO2 per hour on a weekly average [Section 17-2.600(5)(b)3.b.(i), F.A.C.].

C7 ~~7~~ *amended* 5. This unit shall be stack tested for particulate matter and visible emission (under both sootblowing and non-sootblowing operation conditions), and sulfur dioxide at intervals of 12 months from the date of September 13, 1989 or within a ninety (90) day period prior to this date. The Method No. 9 test period on this source shall be sixty (60) minutes and shall be conducted simultaneously with each PM test. In situations where Method No. 9 VE testing is not possible during PM testing, such as under overcast days, independent VE testing may be performed at a later date within the 5 day testing window. Reason for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C. One copy of 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 such testing.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued)

Amended
6. The permitted rate of this source is 159 MW based on the average load at which the September 13, 1989, source emission test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted rate, when practical, and when the fly ash collected by the precipitator is being reinjected into the boiler. A compliance test submitted at operating levels less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until another test (showing compliance) a higher rate is submitted. At any time the permitted rate of this source is exceeded by at least 10%, a compliance test shall be performed within thirty (30) days of initiation of the higher rate and the results of the test shall be submitted to the Department and the Environmental Protection Commission of Hillsborough County.

C5
7. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. *C14* A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.

C11 Part 2
8. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing excess opacity readings recorded during the three month period. For the purpose of this report, excess emissions shall be defined as all six minute averages of opacity greater than 20 percent. The information supplied in this report shall be consistent with the reporting requirements of 40 CFR 51 Appendix P [Rule 17-2.710(1), F.A.C.].

9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

- already done in Title V general conditions*
- (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.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued)

The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report.

10. Operation and Maintenance Plan for Particulate Control [Rule 17-2.650(2), F.A.C.].

A. Process System Performance Parameters:

1. Source Designators: F.J. Gannon Station Unit No. 3
2. Design Fuel Consumption Rate at Maximum Continuous Rating:
65 tons coal/hour
3. Operating Pressure: 1980 p.s.i.
4. Operating Temperature: 1000 degrees F.
5. Maximum Design Steam Capacity: 1,160,000 pounds per hour

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitator Manufacturer: Combustion Engineering, Inc.
3. Design Flow Rate: 574,000 ACFM
4. Primary Voltage: 460 volts
5. Primary Current: 172 amps.
6. Secondary Voltage: 56.6 kilovolts
7. Secondary Current: 1000 milliamps
8. Design Efficiency: 99.07%
9. Pressure Drop: 1.6 inches of H₂O (avg.)
10. Rapper Frequency: 1/1.5 min. - 1/4.0 min. (avg.)
11. Rapper Duration: Impact
12. Gas Temperature: 250± 55 degrees F. (avg.)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Visible emissions
Steam Pressure
Steam Temperature (East and West)
Steam Flow

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-172179
PROJECT: F.J. Gannon Station Unit No. 3

SPECIFIC CONDITIONS: (continued) _

Daily

Fuel input
Primary voltage
Primary current
Secondary voltage
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect insulator compartment heaters/blowers.
Service as needed.
Observe operation of all rapper and transformer/rectifier controls.

C13
D. 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 and/or Environmental Protection Commission of Hillsborough County upon request [Rule 17-2.650(2)(g)5., F.A.C.].

C10
11. A continuous monitoring system to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

already done
12. Pursuant to Rule 17-4.090, F.A.C, an application for renewal of permit to operate this source, completed in quadruplicate, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

Issued this 26 day of April
1990.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard Garrity, Ph.D.
Deputy Assistant Secretary

GENERAL CONDITIONS

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to the authority of Section 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 403.712(5), Florida Statutes, 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 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 any 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 credential or other documents as maybe required by law and at reasonable times, access to the premises, where the permitted activity is located or conducted:

GENERAL CONDITIONS (con't):

7. (con't):

- 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 (17-6.130) with the following information:

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

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.

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 Section 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedures 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 17-30.300, 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 (con't):

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)
- () 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:

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 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. 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 measurement;
- 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.



Department of Environmental Protection

Lawton Chiles
Governor

RECEIVED

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

DEC 5 1994

ENVIRONMENTAL
PLANNING

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

In the Matter of an Application
for permit by:

DER File No.: A029-255208
County: Hillsborough

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

Enclosed is Permit Number A029-255208 to operate the coal fired steam generator Unit No. 4 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;

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

- (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 DEC 02 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

DEC 02 1994
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111

PERMIT/PROJECT:

Permit No: A029-255208
County: Hillsborough
Expiration Date: 10/14/99
Project: Steam Generator
F. J. Gannon Station Unit No. 4

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 steam generator designated as Unit No. 4. This unit is a Babcock and Wilcox Corporation wet bottom cyclonic-fired boiler with a nameplate rating of 187.5 Megawatts. The boiler is fired with coal at a maximum heat input rate of 1,876 MMBtu/hour (maximum coal firing rate of 80 tons/hour). Virgin No. 2 oil is used as an ignition fuel during startup of the unit.

Particulate emissions in the boiler exhaust gases are controlled by a Combustion Engineering, Inc. rigid frame electrostatic precipitator prior to discharge through two (2) 306 foot tall exhaust stacks (designated as East and West Stacks).

This boiler is also permitted to burn used oil in accordance with 40 CFR 279.

Location: F. J. Gannon Station - Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS No: 0040 Point ID Nos:
04 - East Stack
19 - West Stack

Replaces Permit No.: A029-160269

(Note: Construction permit for this source (AC29-41940) was issued on August 7, 1981)

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

1. ^{already done} A part of this permit is the attached 15 General Conditions. [Rule 62-4.160, F.A.C.]
2. ^{already done} 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.] ^{see #20}

Operation and Emission Limitations

3. ^{D2} This unit is permitted for continuous operation (i.e 8,760 hours/year). [Operation permit renewal application dated 7/27/94 and previous operation permits]
4. ^{D3} This unit is permitted to burn coal, with the maximum fuel heat input rate not to exceed 1,876 MMBtu per hour of operation on a monthly average basis. This unit is also permitted to burn "on-specification"* used oil at a maximum firing rate of 48 gallons/minute. (*Note - See Specific Condition No. 15 for specification criteria) [Operation permit renewal application dated 07/27/94 and previous operation permits]
5. ^{D8} Sulfur dioxide emissions from this unit shall not exceed a rate of 2.4 pounds per million Btu's of heat input on a weekly average. In addition, the total sulfur dioxide emissions from Units 1 through 6 at the F. J. Gannon Station shall not exceed 10.6 tons per hour on a weekly average basis. [Rule 62-296.405(1)(c)2.a., F.A.C.]
6. ^{D6} Except as allowed for in Specific Condition Nos. 8 and 9 (excess emissions), particulate matter emissions from this unit shall not exceed 0.1 pounds per million Btu's of heat input. (Based upon the maximum permitted fuel heat input rates of Specific Condition No. 4, this corresponds to maximum allowable particulate emission rates of 187.6 pounds per hour.) [Rule 62-296.405(1)(b), F.A.C.]
7. ^{D7} Except as allowed for in Specific Condition Nos. 8 and 9 (excess emissions), visible emissions shall not exceed 20% opacity, except for one two-minute period per hour during which opacity shall not exceed 40%. [Rule 62-296.405(1)(a), F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

8. Excess emissions resulting from boiler cleaning (sootblowing) and load change (as defined in Rule 62-210.700(3), F.A.C.) shall be permitted up to the maximum levels shown below provided that the duration of such emissions does not exceed 3 hours in any 24 hour period:

- A. visible emissions during boiler cleaning (sootblowing) or load change shall not exceed 60% opacity, except for not more than four (4) six (6)-minute periods during which visible emission above 60% are allowed;
- B. particulate matter emissions during boiler cleaning (sootblowing) or load change shall not exceed 0.3 pounds per million Btu's. (Based upon the maximum permitted fuel heat input rates of Specific Condition No. 4, this corresponds to maximum allowable particulate emission rate of 562.8 pounds per hour).

The above excess emissions are allowed provided that best operational practices to minimize the magnitude and duration of excess emissions are adhered to.

[Rule 62-210.700(3), F.A.C.]

9. Excess emissions resulting from startup, shutdown, or malfunction shall be permitted provided that best operational practices to minimize the magnitude and duration of the excess emissions are adhered to. The duration of excess emissions resulting from malfunctions shall in no case exceed two (2) hours in any 24 hour period unless specifically authorized by the Department or by the Environmental Protection Commission of Hillsborough County. Excess emissions resulting from malfunctions shall be reported to the Air Management Division of the Environmental Protection Commission of Hillsborough County in accordance with the requirements of Rule 62-4.130, F.A.C. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited.

[Rules 62-210.700(1), (2), (4) and (6), F.A.C.]

may need to
put in text.

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: AO29-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

Compliance Testing Requirements

D10 10. In order to document compliance with Specific Condition Nos. 6, 7 and 8, the permittee shall test the emissions from the steam generator Unit No. 4 exhaust stacks for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions annually within the 90 day period prior to the date of May 9 of each year. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

D11 11. *in table compliance* Compliance with the particulate matter limitation of Specific Condition Nos. 6 and 8 shall be determined using DER Methods 5, 5B, 5F or 17 (as appropriate) contained in Rule 62-297, F.A.C. The stationary point source stack sampling facilities shall meet the requirements of Rule 62-297.345(3), F.A.C. [Rule 62-297, and Table 62-297.330, F.A.C.]

D15 12. The permittee shall notify the Air Management Division 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.]

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

D11
13. Compliance tests shall be conducted while operating this unit at a high firing rate that is within 90-100% of the maximum permitted coal heat input rate of 1,876 MMBtu/hour, if feasible. If it is impracticable to test at 90-100% of the maximum permitted heat input rate, subsequent source operation is limited to 110% of the tested rate until a new test is conducted. If, once the unit is so limited, the unit is operated at a higher rate, then within 30 days of that higher rate being achieved an additional compliance test shall be conducted at the higher rate (or higher). The test results shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. In no case shall the maximum permitted heat input rate of 1,876 MMBtu/hour be exceeded. The permittee shall submit a statement of the fuel heat input rate as a part of any compliance test report.

[Rule 62-4.070(3), F.A.C.]

14. Should the Department after investigation have good reason to believe that any of the emission standards in this permit are not being met, the Department may require that compliance with the emission standard be demonstrated by stack testing in accordance with Rule 62-297, F.A.C.

[Rule 62-297-340(2), F.A.C.]

02-2-04 62-297.310(7)(6)
"On-Specification" Used Oil Requirements

15. This unit is permitted to burn "on-specification" used oil. "On specification" used oil is defined as used oil that meets the 40 CFR Part 279 (Standards for the Management of Used Oil) specifications listed below (PCB reference added). Used oil that does not meet any of the following specifications is considered "off-specification" oil and shall not be burned unless the proper notification in accordance with 40 CFR Part 279 has been given.

CONSTITUENT/PROPERTY

ALLOWABLE LEVEL

Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash Point	100 °F minimum
PCB's	less than 50 ppm

[Rule 403.769(3)(b), Florida Statutes and 40 CFR 279.11]

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

D20 16. The permittee shall keep monthly records of the quantities of "on-specification" and "off-specification" used oil burned in this unit. The above records shall be maintained in a form suitable for inspection, retained for a minimum of a two year period, and made available upon request.
[Rule 62-4.070(3), F.A.C.]

D5 17. Gannon Station accepts and burns used oil for purposes of energy recovery in accordance with 40 CFR 279. Prior to receiving and/or burning any used oil the permittee shall insure that the oil has be characterized to meet specification parameters (see Specific Condition No. 15). Characterization may be based on current testing and/or generator knowledge as appropriate. Evidence of compliance shall be maintained, and provided upon request.
D20
[[Rule 62-4.070(3), F.A.C.]

Sulfur Dioxide Compliance and Reporting Requirements

D8 18. Compliance with the sulfur dioxide emission limitations of Specific Condition No. 5 shall be achieved and documented in part by adhering to the previously (1984) submitted Francis J. Gannon Sulfur Dioxide Compliance Plan. A quarterly report, summarizing the information necessary to determine compliance with sulfur dioxide standards for this unit and the facility shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days following the end of each calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period.
D17
[Rule 62-4.070(3), F.A.C. and previous operation permits]

Continuous Opacity Monitoring (COM) Requirements

D13 19. The permittee shall operate, maintain, and calibrate a system for continuously monitoring and recording opacity. This continuous opacity monitoring (COM) system shall be installed and operated in accordance with the requirements of Rule 62-297.500(1), F.A.C.
[Rule 62-297.500(1)(a)1., F.A.C.]

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No.: A029-255208

Project: Steam Generator

F.J. Gannon Unit No 4

Specific Conditions:

20. ^{DK} The permittee shall submit quarterly reports detailing excess opacity emissions as measured by the COM system. The reports shall be submitted to the Air Compliance Section of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 30 days following the end of each calendar quarter. For purposes of this report excess emissions shall be defined as all six-minute average periods of opacity greater than 20%, except for two (2) minutes up to 40% allowed in a 60 minute period. Periods subject to the exemptions of Specific Condition No. 8 or 9 shall be identified as to their cause and the applicable exemption. The information supplied in this report (including periods in which the COM system was inoperative) shall be consistent with the reporting requirements of 40 CFR 51 Appendix P, Section 4.0.

[Rule 62-297.500(2), F.A.C. and previous operation permit]

not include

Reporting Requirements

21. ^{Already done in TV General Conditions} The permittee shall submit to the Air Program of the Southwest District Office of the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County each calendar year on or before March 1, a completed DER Form 62-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility" for the preceding calendar year. A statement of the total quantity of used oil burned in Unit No. 4 during the calendar year being reported shall be included with the annual report along with a summary of the results of the "on-specification" analysis results (showing worst case for each parameter).

[Rule 62-210.370(2), F.A.C.]

22. ²¹⁹ Excess emissions resulting from malfunctions shall be reported to the Air Management Division of the Environmental Protection Commission of Hillsborough County in accordance with the requirements of Rule 62-4.130, F.A.C. The Department or the Environmental Protection Commission of Hillsborough County may request that written reports of malfunctions be submitted on a quarterly basis.

[Rule 62-210.700(6), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

Operation and Maintenance Plan

23. ^{D/R} 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: Low sulfur coal, ignition oil or used oil
2. Maximum Fuel Firing Rate:
Coal - 80 tons/hr (1,876 MMBtu/hour)
Ignition oil - 18 gallons/minute
Used oil - 48 gallons/minute
3. Maximum Design Steam Capacity: 1.26×10^6 pounds/hour
4. Nameplate Power Output Rating: 187.5 MW
5. Operating Steam Pressure: 1890 psi
6. Operating Steam Temperature: 1000°F

B. Particulate Control Equipment

1. Control Equipment Designation: electrostatic precipitator
2. Control Equipment Manufacturer: Combustion Engineering, Inc.
3. Design Air Flow Rate: 631,000 acfm
4. Primary ESP Voltage: 460 volts
5. Primary ESP Current: 172 amps
6. Secondary ESP Voltage: 56.6 kilovolts
7. Secondary ESP Current: 1000 milliamps
8. ESP Design Efficiency: 99.05%
9. ESP Pressure Drop: 1.58 inches of H₂O (average)
10. ESP Rapper Frequency: 1/1.5 - 1/3.5 minutes (average)
11. Rapper Duration: Impact
12. Gas Temperature: $250 \pm 55^\circ\text{F}$ (average)

- C. The following observations, checks, and actions apply to this source and shall be conducted on the schedule specified below:

Continuously Monitored and Recorded:

Visible emissions (continuous opacity monitor (COM))
Steam pressure, temperature and flow

Continuously Monitored:

Precipitator Trouble Alarm

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No.: AO29-255208
Project: Steam Generator
F.J. Gannon Unit No 4

Specific Conditions:

23. O&M Plan (continued)

Daily Recorded and Inspected

ESP Performance Parameters (primary and secondary voltage and current)

Inspect system controls and make adjustments as needed

Monthly Recorded or Inspections/Maintenance

Fuel Input (recorded)

Electrostatic Precipitator preventative maintenance:

- Inspection of insulator compartment heaters/blowers, service as needed
- Observation of all rapper and transformer/rectifier controls, service as needed

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 the Environmental Protection Commission of Hillsborough County upon request.

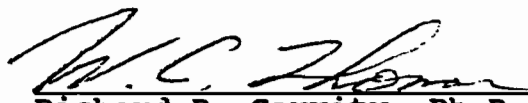
[Rule 62-296.700(6), F.A.C.]

Permits

24. 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 Air Management Division of the Environmental Protection Commission of Hillsborough County, no later than July 18, 1999 (60 days prior to the expiration date of this permit). A Title V application submitted prior to the above date 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.

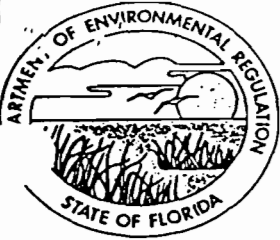
13. This permit also constitutes: —

- () 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.



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347
Lawton Chiles, Governor • 813-623-5561 • Carol M. Browner, Secretary

RECEIVED

JAN 15 1992

ENVIRONMENTAL
PLANNING

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-203511
County: Hillsborough

Enclosed is Permit Number A029-203511 to operate the Gannon Station Unit No. 5 steam generator designated as Unit No. 5, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;



(f) A statement of which rules or statutes petitioner contends required 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 right 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 Stone 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.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,

J. Harry Kerns
J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on JAN 13 1992 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.

Marilyn Quispe
Clerk

JAN 13 1992
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION
Permit No: AO29-203511
County: Hillsborough
Expiration Date: 01/01/97
Project: Gannon Station Unit
No. 5

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 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 of hereof and specifically described as follows:

?
For the operation of a 2284 MMBTU/hr. coal fired steam generator ~~designated as Unit No. 5.~~ This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is of the ~~opposed firing type.~~ The generator has a nameplate capacity of 239.4 MW. Particulate emissions are controlled by two Research Cottrell, Inc. electrostatic precipitators operating in series.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 05

Replaces Permit No.: AO29-125993

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS:

already done

- E1* 1. A part of this permit is the attached 15 General Conditions.
- E3* 2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]
- E4* 3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.]
- E5* 4. The maximum allowable SO₂ emission rate from Unit No. 5 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station, shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]
- E6* 5. Excess Emissions:
- A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]
 - B. Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
 - C. Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

E16
* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

E17
6. Unit No. 5 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of April 15, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A 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 such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

E8
7. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 2284 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 2284 MMBtu/hr. The actual heat input rate shall be specified in each test.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

E5
E14
8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

E1
9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

- (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.

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

E9
11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

A. Process System Performance Parameters:

- 1. Source Designators: Gannon Unit No. 5
- 2. Design Fuel Consumption Rate at Maximum Continuous Rating:
93.4 tons coal/hour
- 3. Operating Pressure: 2,250 psi
- 4. Operating Temperature: 1000° F.
- 5. Maximum Design Steam Capacity: 1,660,000 pounds per hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: 2 Electrostatic Precipitators
2. Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
3. Model Numbers: G.O. 3129; G.O. 2791
4. Design Flow Rates: 820,000 ACFM; 700,000 ACFM
5. Primary Voltage: 400 volts; 400 volts
6. Primary Current: 240 amps; 195 amps
7. Secondary Voltage: 53.5 kilovolts; 64.5 kilovolts
8. Secondary Current: 1,500 milliamps; 1,000 milliamps
9. Design Efficiency: 99.78%; 98.5%
10. Pressure Drop: 0.5 in. H₂O (avg); 0.5 in. H₂O (avg)
11. Static Pressure: +15 in. H₂O (avg); +15 in. H₂O (avg)
12. Rapper Frequency: 1/2.0 min. (avg); 1/2.0 min. (avg)
13. Rapper Duration: Impact
14. Gas Temperature: 293° F. (avg); 289° F. (avg)

- C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Opacity
Steam pressure
Steam temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
E13 Observe operation of all rapper and transformer/rectifier controls.

D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203511
PROJECT: Gannon Station Unit No. 5

SPECIFIC CONDITIONS: (continued)

already done. See TV general condition #60
12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitators and the ductwork for gas leaks at least once a month. Note any problems and action taken.

E10

13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

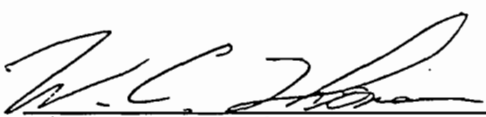
E12

14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

already done see TV G.C #7

15. An original application to renew this operating permit and three (3) copies, with original seals and signatures, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


For Richard Garrity, Ph.D.
Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

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, 403.161, 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 this 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 and used by the permittee to achieve compliance with the conditions of this permit, are 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 reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under 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 noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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 403.111 and 403.73, 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 Rule 17-4.120 and 17-730.300, Florida Administrative Code, 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 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)
- () 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:

- (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:
 - 1. the date, exact place, and time of sampling or measurements;
 - 2. the person responsible for performing the sampling or measurements;
 - 3. the dates analyses were performed;
 - 4. the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used;
 - 6. 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 the 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.



Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

MAR 20 1996

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

Mr. Patrick A. Ho, Manager
Environmental Planning
Tampa Electric Company (TECO)
P.O. Box 111
Tampa, Florida 33601-0111

RECEIVED

MAR 21 1996

ENVIRONMENTAL
PLANNING

Dear Mr. Ho:

Re: Operation Permit Amendment
AO29-203512 F.J. Gannon Station - Unit 6
(DEP ARMS Project No. 0570040-001)

On March 1, 1996, the Department received your request dated February 28, 1996 to amend the above permit. The requested amendment consists of a change to the required stack testing period to coincide with the CEM Relative Accuracy Testing requirements under the Acid Rain Program. We have reviewed this request and have no objections to the requested change. Therefore, permit AO29-203512 (as amended October 11, 1994) is hereby amended as follows:

Specific Condition No. 6

From:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of June 19. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation. Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

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 located;
- (b) A statement of how and when each petitioner received notice of the Department's action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's 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;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's 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.

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 amendment. 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 amendment 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 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

When the Order (Permit Amendment) 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

be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.570(2), 62-297.330(1)(b), 62-297.310, and 62-297.340(1)(d), F.A.C.]

To:

6. This source shall be stack tested for particulate matter and visible emissions under both sootblowing and non-sootblowing operating conditions, and for sulfur dioxide emissions, annually, within 90 days prior to the date of May 29. ~~A test under sootblowing conditions which demonstrates compliance with a non-sootblowing emission limitation will be accepted as proof of compliance with that non-sootblowing emission limitation.~~ Compliance with the visible emissions limitation shall be demonstrated using EPA Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. Visible emissions testing shall be conducted simultaneously with particulate matter testing unless visible emissions testing is not required. In situations where DER Method 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed at a later date within but not more than 5 days. Reasons for non-simultaneous testing must be provided in the test report. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. A copy of the test data shall be submitted to both the Air Management Division, Environmental Protection Commission of Hillsborough County and the Air Compliance Section of the Southwest District of the Florida Department of Environmental Protection, within 45 days of testing. [Rules 62-297.310(4)(a)2, 62-297.310(7)(a)4, and 62-297.310(8), F.A.C.]

A person whose substantial interests are affected by this permit amendment 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.

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 and becomes a part of permit AO29-203512. If you have any questions please call Mr. David Zell of my staff at (813) 744-6100, extension 118.

Sincerely,



W.C. Thomas, P.E.
District Air Program Administrator
Southwest District

DRZ/

copy to:
Environmental Protection Commission of Hillsborough County

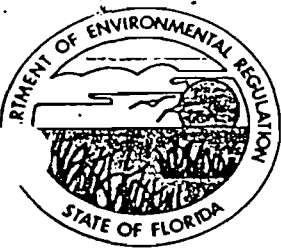
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on MAR 20 1996 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

MAR 20 1996
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

RECEIVED

FEB 26 1992

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

ENVIRONMENTAL
PLANNING

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: A029-203512
County: Hillsborough

Enclosed is Permit Number A029-203512 to operate the Gannon Station Unit No. 6 steam generator designated as Unit No. 6, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

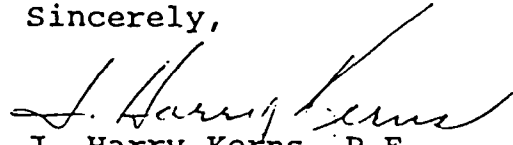
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm

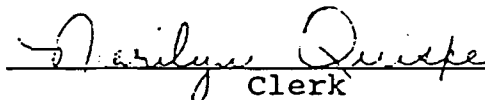
Attachment:

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on FEB 21 1992 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

FEB 21 1992
Date



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

PERMITTEE:

Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION

Permit No: AO29-203512
County: Hillsborough
Expiration Date: 02/15/97
Project: Gannon Station Unit
No. 6

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 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 of hereof and specifically described as follows:

For the operation of a 3798 MMBTU/hr. coal fired/steam generator designated as Unit No. 6. This wet bottom boiler was manufactured by Riley Stoker Corporation and is of the opposed firing type. The generator has a nameplate capacity of 414 MW. Particulate emissions are controlled by a Research Cottrell, Inc. electrostatic precipitator, Model G.O. 3118.

Location: Port Sutton Road, Tampa

UTM: 17-360.0 E 3087.5 N NEDS NO: 0040 Point ID: 06

Replaces Permit No.: AO29-125992

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS:

- already done*
- F3 1. A part of this permit is the attached 15 General Conditions.
- F3 2. Except as provided in Specific Condition No. 5, the particulate matter emission rate for this source shall not exceed 0.1 pounds per million Btu heat input, over a two hour average. [Rule 17-2.600(5)(a)2., F.A.C.]
- F4 3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40% opacity. [Rule 17-2.600(5)(a)1., F.A.C.]
- F5 4. The maximum allowable SO₂ emission rate from Unit No. 6 shall be 2.4 pounds of SO₂ per MMBTU heat input on a weekly average. In addition, Units 1 through 6 at the Gannon Station shall not emit more than a combined total of 10.6 tons of SO₂ per hour on a weekly average. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]
- F6 5. Excess Emissions:
- A. Excess emissions from existing fossil fuel steam generators resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions are minimized. [Rule 17-2.250(2), F.A.C.]
 - B. Excess emissions resulting from boiler cleaning (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing a) best operational practices to minimize emissions are adhered to and b) the duration of the excess emissions are minimized. Visible emissions above 60% opacity are allowed for not more than 4, six-minute periods, during the 3-hour period of excess emissions allowed by part B. of this specific condition. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
 - C. Excess emissions resulting from malfunctions* are permitted provided a) best operational practices to minimize emissions are adhered to and b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

- D. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction is prohibited. [Rule 17-2.250(4), F.A.C.]

F16

* In case of excess emissions resulting from malfunctions, Tampa Electric Company shall notify the Environmental Protection Commission of Hillsborough County in accordance with Rule 17-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested. [Rule 17-2.250(6), F.A.C.]

F1 Amended
6. Unit No. 6 shall be stack tested for particulate matter (under both soot blowing and non soot blowing operating conditions), sulfur dioxide and visible emissions at intervals of 12 months from the date of June 19, 1991 or within a ninety (90) day period prior to this date. All testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. (as applicable to fossil fuel steam generators under Rule 17-2.600(5)(a), F.A.C. in Table 700-1, F.A.C.). The DER Method 9 observation period shall be at least 60 minutes in duration and conducted during sootblowing conditions. In situations where DER Method No. 9 visible emissions testing is not possible during particulate matter testing, such as under overcast days, independent visible emissions testing may be performed up to 5 days later. Reasons for non-simultaneous testing must be provided in the test report. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C. A 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 such testing. [Rules 17-2.700(2)(a)2. and 17-2.700(2)(a)4., F.A.C.]

F2
X. Approved compliance testing of emissions must be conducted within $\pm 10\%$ of the maximum permitted heat input rate of 3798 MMBtu/hr., when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate but shall not exceed 3798 MMBtu/hr. The actual heat input rate shall be specified in each test.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

F5 8. Compliance with the SO₂ emission standards set for the Gannon Station shall be achieved in part by adhering to the Francis J. Gannon Sulfur Dioxide Regulatory Compliance Plan submitted previously. A quarterly report summarizing the information necessary to determine compliance with the SO₂ standards for this unit and the facility shall be submitted within 45 days following a calendar quarter. The sulfur variability study will be performed on the facility during the last quarter of each year. The results shall be submitted with the quarterly report for that period. The Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation shall each receive a copy of this report. [Rule 17-2.600(5)(a)3.b.(i), F.A.C.]

F14 9. A report shall be submitted to both the Florida Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter detailing any excess opacity readings recorded by a continuous monitoring system for monitoring opacity (CEM) during the three month period. Include periods of CEM downtime, reason for downtime and action taken. For the purpose of this report, excess emissions shall be defined as all six minute average of opacity greater than 20 percent, except for two minutes up to 40 percent allowed in a 60 minute period. [Rule 17-2.710(1)(b)2. and 17-2.710(1), F.A.C.]

already done
F11 10. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

- (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.

A copy of the report shall be submitted to the Southwest District Office of the Florida Department of Environmental Regulation and a copy to the Environmental Protection Commission of Hillsborough County.

F9 11. Operation and Maintenance for Particulate Control: [Rule 17-2.650(2), F.A.C.]

A. Process System Performance Parameters:

1. Source Designator: Gannon Unit No. 6
2. Design Fuel Consumption Rate at Maximum Continuous Rating:
151.4 tons coal/hour
3. Operating Pressure: 2,600 psi
4. Operating Temperature: 1000° F.
5. Maximum Design Steam Capacity: 2,700,000 pounds per hour

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS: (continued)

B. Particulate Control Equipment Data:

1. Control Equipment Designator: Electrostatic Precipitator
2. Electrostatic Precipitators Manufacturer: Research Cottrell, Inc.
3. Model Number: G.O. 3118
4. Design Flow Rate: 1,350,000 ACFM
5. Primary Voltage: 430-480 volts
6. Primary Current: 241 amps
7. Secondary Voltage: 53.5 kilovolts
8. Secondary Current: 1,500 milliamps
9. Design Efficiency: 98.5%
10. Pressure Drop: 0.5 inches of H₂O (avg)
11. Static Pressure: +15 inches of H₂O (avg)
12. Rapper Frequency: 1/2.0 minutes (avg)
13. Rapper Duration: Impact
14. Gas Temperature: 293° F. (avg)

C. The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Opacity
Steam pressure
Steam temperature
Steam Flow

Daily

Fuel input
Primary voltage
Primary current
Secondary current
Inspect system controls. Make minor adjustments as needed.

Monthly

Inspect penthouse pressurizing fan filters. Replace as needed.
Observe operation of all rapper and transformer/rectifier controls.

F-13

- D. Records of inspections, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Florida Department of Environmental Regulation or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-203512
PROJECT: Gannon Station Unit No. 6

SPECIFIC CONDITIONS:—(continued)

Already done
12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling. Specifically:

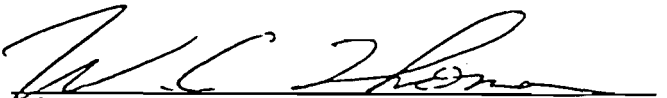
- * Attend to accidental spills (coal and fly ash) promptly and effectively.
- * Inspect the boiler, the electrostatic precipitator and the ductwork for gas leaks at least once a month. Note any problems and action taken.

F10
13. A CEM to determine in-stack opacity from this source shall be calibrated, operated and maintained in accordance with Rule 17-2.710(1), F.A.C.

F12
14. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C.]

already done
15. An original application to renew this operating permit and three (3) copies, with original seals and signatures, shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit. [Rule 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



For Richard Garrity, Ph.D.
Director of District Management

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, 403.161, 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 this 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.

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 and used by the permittee to achieve compliance with the conditions of this permit, are 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 reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under 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 noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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 403.111 and 3.73, 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 Rule 17-4.120 and 17-730.300, Florida Administrative Code, 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 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)
- () 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:

- (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:
 - 1. the date, exact place, and time of sampling or measurements;
 - 2. the person responsible for performing the sampling or measurement;
 - 3. the dates analyses were performed;
 - 4. the person responsible for performing the analyses;
 - 5. the analytical techniques or methods used;
 - 6. 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 the 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.



Department of Environmental Protection

RECEIVED

SEP 1 1984

ENVIRONMENTAL
PLANNING

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
Governor

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:

already done

1. A part of this permit is the attached 15 General Conditions.
[Rule 62-4.160, F.A.C.]

already done See #20

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.]

moved to 310(7) & 310(8)

repealed

obsolete

MISC. manufacturing

check applicability list

reporting

5.11

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : A029-252615

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.]

Reporting
E.G.H.

Not Necessary
E.G.H.

G7
S. 12
K. 12

R. 12

R. 9

PERMITTEE:

Tampa Electric Company

PERMIT/PROJECT:

Permit No. : AO29-252615

Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

G-13
Reporting

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.]

G-14
Reporting

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.]

G-15
Reporting

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

G-16
Reporting

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.]

G-17
Reporting

16. In order to document compliance with Specific Condition Nos. 4 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
Project: Combustion Turbine
(F.J. Gannon Station)

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.

PERMITTEE:
Tampa Electric Company

PERMIT/PROJECT:
Permit No. : A029-252615
Project: Combustion Turbine
(F.J. Gannon Station)

Specific Conditions:

Record Keeping
C. Records

G18

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

already done in general conditions
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.

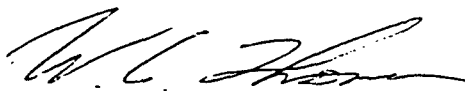
[Rule 62-210.370(2), F.A.C.]

Permits

already done in general conditions
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.



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 3361

Lawton Chiles, Governor

813-744-6100

Virginia B. Wetherell, Secretary

RECEIVED

APR 28 1993

ENVIRONMENTAL
PLANNING

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

DER File No.: AO29-216480
County: Hillsborough

Enclosed is Permit Number AO29-216480 to operate the Gannon Station Coal Yard, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

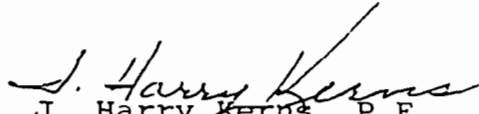
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/CCG/bm


Attachment: .

cc: Environmental Protection Commission
of Hillsborough County
Eric M. Costello, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all
copies were mailed by certified mail before the close of business on
APR 23 1993 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

APR 23 1993

Date



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia B. Wetherell, Secretary

PERMITTEE:

Tampa Electric Company
 P.O. Box 111
 Tampa, FL 33601-0111

PERMIT/CERTIFICATION

Permit No: AO29-216480
 County: Hillsborough
 Expiration Date: 09/12/97
 Project: Gannon Station Coal Yard

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-209, 17-210, 17-212, 17-272, 17-275, 17-296, 17-297, and 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 of hereof and specifically described as follows:

For the operation of a bituminous coal yard (yard) serving the Gannon Station boiler units 1 through 6. Yard activities includes barge (East and West) and railcar unloading of coal, truck unloading of limestone or iron ore, and transfer and storage of these materials. The iron ore is shipped, stored and handled in the same manner as limestone. Particulate control media and other yard activity parameters are listed below:

<u>Source Designator</u>	<u>Particulate Control Method</u>	<u>Efficiency Rating at Design Capacity</u>	<u>Maximum Design Material Handling Rate (TPH)</u>
Barge to East Grab Bucket	Grab Bucket	----	1500
East Grab Bucket to East Hopper	Side Enclosure	25%	1500
Barge to West Continuous Unloader	Enclosure	40%	1500
Barge to West Grab Bucket	Grab Bucket	----	1500
West Grab Bucket to West Hopper	Side Enclosure	25%	1500
East Hopper to Feeder	----	----	1500

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-216480
PROJECT: Gannon Station Coal Yard

PROCESS DESCRIPTIONS: (continued)

<u>Source Designator</u>	<u>Particulate Control Method</u>	<u>Efficiency Rating at Design Capacity</u>	<u>Maximum Design Material Handling Rate (TPH)</u>
West Hopper to Feeder	----	----	1500
Continuous System to Feeder	Enclosure	70%	1500
East/West Feeder to Conveyor B	Enclosure	50%	1500
Continuous System Feeder to Conveyor B	Enclosure	70%	1500
Conveyor B to Conveyor C	Enclosure	50%	3000
Conveyor C to Conveyor D1/D2	Enclosure & Wet Sprays	95%	1500
Railcar to Hopper	Enclosure (two sides open)	40%	1500
Hopper to Feeder	Enclosure	50%	1500
Feeder to Conveyor L	Enclosure	50%	1500
Conveyor L to Conveyor D1/D2	Enclosure	95%	1500
Conveyor D1/D2 to Conveyor M1/M2	Enclosure & Wet Sprays	95%	1500
Conveyor M1/M2 to Conveyor E1/E2	Enclosure & Wet Sprays	95%	1500
Conveyor E1/E2 to Stockpile	----	----	1500
Live Coal Stockpile	Moisture Content (approximately 8-11%)	50%	----
Dead Coal Stockpile	Moisture Content (approximately 8-11%) & Compaction	70%	----
Live Limestone Stockpile	----	----	----

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

PROCESS DESCRIPTIONS: (continued)

<u>Source Designator</u>	<u>Particulate Control Method</u>	<u>Efficiency Rating at Design Capacity</u>	<u>Maximum Design Material Handling Rate (TPH)</u>
Reclaim Pile to Conveyors F1/F2/F3/F4	Enclosure	85%	1600
Conveyors F1/F2/F3/F4 to Conveyors G1/G2	Enclosure & Wet Sprays	95%	1600
Conveyors G1/G2 to Hammermill Crushers	Enclosure	70%	1600
Hammermill Crushers to Conveyor H1/H2	Enclosure & Wet Sprays	70%	1600
Conveyors H1/H2 to to Conveyor J1/J2	Enclosure	70%	1600
Conveyor J1/J2 to Bunkers	Enclosure	70%	1600
Conveyor D1/D2 to Conveyor G1/G2	Enclosure & Wet Sprays	95%	1500
Vehicular Entrainment	----	----	----
Stockpile Maintenance	Moisture Content (approximately 8-11%)	50%	----

Location: Port Sutton Road, Port Sutton, Tampa

UTM: 17-360.0 E 3087.5 N NEDS NO: 0040 Point ID: 08

Replaces Permit No.: AO29-136682

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS:

Ready to go

1. A part of this permit is the attached 15 General Conditions.
- H1 2. The annual coal throughput shall not exceed 2.85 million tons per year.
- H3 3. Visible emissions generated by fugitive or unconfined particulate matter from coal handling systems and storage areas shall not exceed 5% opacity. [Construction Permit AC29-152987]
- H4 4. All controls associated with the transfer points (i.e., the grab buckets, the windshield, the enclosures and the wet spray systems) shall be maintained to the extent that the capture efficiencies credited will be achieved. [Rule 62-4.070(3)]
- H5 5. Dead coal storage piles shall not be used in day to day activities. Their use shall be restricted to those times when normal deliveries cannot supply boiler requirements. (Construction Permit # AC 29 114676)
- H6 6. The west coal unloading system shall consist of two separate barge unloading systems. No more than two of the three barge unloading systems at the barge unloading facility shall be in operation at any time. [Rule 62-4.070(3)]
- H7 7. A thirty (30) minute visible emissions test shall be performed ^{test} the following material transfer operations at 12 month intervals from or starting ninety (90) days prior to December 31, 1993. One copy of each test data shall be submitted to both, the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation: [Rule 17-297, F.A.C.]
 - A) The east bucket to the east hopper
 - B) The west bucket to the west hopper
 - C) The railcar to the hopper
 - D) Either the conveyor E1 or E2 to their respective stockpiles where the initial free fall is at least 30 feet
 - E) The hammermill crusher to either the conveyor H1 or H2
 - F) The conveyors D1 or D2 to either conveyor G1 and G2
 - G) Either the conveyor J1 or J2 to their respective bunkers
- H9 8. ^{Test} Compliance with the emission limitation of Specific Condition No. 3 shall be determined using DER Method 9. The minimum requirements for stack sampling facilities, source sampling and reporting shall be in accordance with Rule 17-297, F.A.C.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

H.10 test

9. All compliance testing shall be conducted during normal operation and at the maximum material (including limestone or iron ore where applicable) transfer rate attainable during the test period. Actual material handling rates will be determined using the totalizer readings obtained from scales located on C, L, and H conveyors. The readings from these scales will be recorded at the start and finish of the visible emissions test. The difference between the values recorded divided by the test duration will be the value used to represent the material handling rate. Alternatively, values from the circular chart recorders located in the coal field control room will be used in the event a problem with a scale totalizer arises. The test results shall indicate if iron ore has been included in the corresponding material transfer rate. Failure to include the actual process or production rate in the results may invalidate the test. [Rule 17-4.070(3), F.A.C. and Supplement to Application, December 18, 1992]

H.10

10. Water sprays or chemical wetting agents and stabilizers are acceptable methods to be used on both live and dead coal storage piles as necessary to maintain an opacity of less than or equal to 5%. Other appropriate methods may be applied to maintain this opacity, after they are approved by the Department.

11. Should the Department have reason to believe the visible emission standards are not being met, the Department may require that compliance with the visible emission standards be demonstrated by testing in accordance with Rule 17-297, F.A.C.

H.12

12. Operation and Maintenance Plan for Particulate Control: [Rule 17-296.700, F.A.C. and Application for Renewal, July 16, 1992]

A) Process Parameters:

1. For all sources covered under this permit, permitted operation schedule: 24 hrs./day, 7 days/wk.; 52 wks./yr.
2. Equipment Data:
Conveyor Hoods: Corrugated Aluminum
Transfer Point Enclosures: Carbon Steel
3. Wet Dust Suppression:
Manufacturer: Martin Marietta

B) Inspection and Maintenance Procedures:

The coal yard particulate control equipment receives regular preventative maintenance as follows:

Conveyor Enclosures:

1. Daily random visual inspections of conveyor hoods.
2. Daily random visual inspections of the transfer points chute work.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

Dust Suppression System:

1. Quarterly inspection of system for water leaks.
2. Quarterly inspection of spray nozzles.

The pumps, tanks, etc., that make-up the dust suppression system undergo normal maintenance including lubrication, flushing, and draining.

Record Report
H14 Should these procedures indicate repairs are necessary, maintenance job requests are initiated. All records are maintained for a minimum of two years.

already done
13. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-296.310, F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

already done
14. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

- 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.

The report shall be submitted only to the Environmental Protection Commission of Hillsborough County.

H15 *Record Report*
15. The permittee shall provide timely notification to the Environmental Protection Commission of Hillsborough County prior to implementing any changes that may result in a modification to this permit. The changes may include, but are not limited to, the following, and may also require prior authorization before implementation: [Rules 17-209.200, 17-210.300 and 17-4.070(3), F.A.C.]

- repealed*
- A) Alteration or replacement of any equipment or parameter listed on page 1 of this permit.
 - B) Installation or addition of any equipment which is a source of air pollution.
 - C) Any changes in the method of operation, raw materials, products or fuels.

* Not applicable to normal maintenance and repairs, and vehicles used for transporting material.

PERMITTEE:
Tampa Electric Company

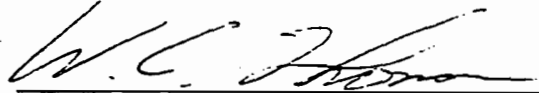
PERMIT/CERTIFICATION NO.: AO29-216480
PROJECT: Gannon Station Coal Yard

SPECIFIC CONDITIONS: (continued)

already done
16. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-209, 17-210, 17-212, 17-272, 17-275, 17-296, and 17-297, F.A.C., or any other requirements under federal, state, or local law. [Section 17-210.300, F.A.C.]

already done
17. Four copies of an application for renewal of the permit to operate this source shall be submitted to the Florida Department of Environmental Regulation at least 60 days prior to its expiration date. [Rules 17-4.050 and 17-4.090, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

131

Richard Garrity, Ph.D.
Director of District Management
Southwest District

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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, 403.161, 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 this 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 system of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are 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 reasonable times, access to the premises where the permitted activity is located or conducted to:

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- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated required under this permit;
- (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 noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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 403.111 and 403.73, Florida Statutes. 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 Rule 17-4.120 and 17-730.300, Florida Administrative Code, 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 or a copy thereof shall be kept at the work site of the permitted activity.

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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 Standard

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:
 1. the date, exact place, and time of sampling or measurements;
 2. the person responsible for performing the sampling or measurements;
 3. the dates analyses were performed;
 4. the person responsible for performing the analyses;
 5. the analytical techniques or methods used;
 6. 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 the 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.



Best Available Copy
Department of
Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

RECEIVED

JUL 22 1984

ENVIRONMENTAL
PLANNING

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Patrick A. Ho
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

DEP File No.: A029-250139
County: Hillsborough

Enclosed is Permit Number A029-250139 to operate F.J. Gannon Station Units 1-6 Coal Bunkers with six Roto-Clones, located at Port Sutton Road, Tampa, Hillsborough County, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 299 & 17-4.

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 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 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, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

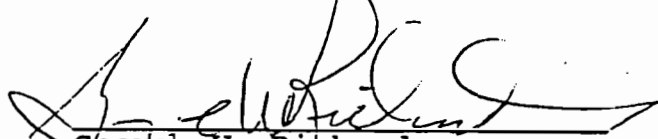
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Mr. Patrick A. Ho
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



George W. Richardson
Air Permitting Engineer
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100, Ext. 420

cc: Air Management Division, Environmental Protection
Commission of Hillsborough County
Eric M. Costello, P.E., Tampa Electric Company

Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on JUL 20 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

JUL 20 1994
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: A029-250139
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 1-6 Coal
Bunkers with Six
Roto-Clones

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 and 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 F.J. Gannon Station Units 1-6 coal bunkers with an exhaust fan/cyclone collector (Roto-Clone) controlling dust emissions from each unit's respective bunker. Two moving transfer stations via their respective conveyor belts route coal through enclosed chutes to each of the six bunkers. Coal bunkers No. 1-4 and 6 are each equipped with a 9,600 ACFM American Air Filter Company Type D Roto-Clone to abate dust emissions during ventilation. Coal Bunker No. 5 is equipped with a 5,400 ACFM American Air Filter Company Type D Roto-Clone to abate dust emissions during ventilation. A number of vent pipes convey air from each bunker to a Roto-Clone during particulate removal. Particulate matter removed by the Roto-Clones is returned to a coal bunker via a hopper and return line. Units 1-6 coal bunkers are situated in a west to east fashion. Unit 1 coal bunker is located furthest to the west and Unit No. 6 coal bunker furthest to the east.

Location: Port Sutton Road, Tampa, Hillsborough County

UTM: 17-360.1 3087.5 N NEDS NO: 0040 Point ID:
13-Unit No. 1 Bunker
14-Unit No. 2 Bunker
15-Unit No. 3 Bunker
16-Unit No. 4 Bunker
17-Unit No. 5 Bunker
18-Unit No. 6 Bunker

Replaces Permit No.: A029-163823

Page 1 of 5.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

SPECIFIC CONDITIONS:

already done

1. A part of this permit is the attached 15 General Conditions.

K3 2. Since a source having emissions of less than 1.0 tons/year is exempt from the provisions of particulate RACT, the maximum allowable particulate matter emission rate from each of the six coal bunkers shall not exceed 0.99 tons/year (Rule 17-296.700(2)(c), F.A.C.). Also, the maximum allowable particulate matter emission rate from each of the six coal bunkers shall not exceed 0.19 pounds/hour, as determined from the applicable emission factors described in AP-42, Section 11.2.3 (May, 1983).

K4 3. Visible emissions from each of the six coal bunkers shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).

K5
Report
4. Test the emissions from each of the six coal bunkers annually for the following pollutants within 60 days prior to or on March 29. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.). *see JS*

(X) Particulate Matter (X) Visible Emissions

K6 5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2, 3, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests shall be conducted on 2 of the six coal bunkers annually so that over a three year period all six coal bunkers will have been tested. Coal bunkers 5 and 6 shall be tested within 60 days prior to or on March, 29, 1995.

K7 6. The maximum allowable emission rate of particulate matter for each of the six coal bunkers is set by Specific Condition No. 2. Because of the expense and complexity of conducting a stack test on a minor source of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.340(3), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

K8
7. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted rate for each of the six coal bunkers of 1,600 tons/hour. Determination of the process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

Reporting

K12
8. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

Reporting

K9
9. Should the Department have reason to believe the particulate matter emission standard specified in Specific Condition No. 2 is not being met, the Department may require that compliance with the particulate matter emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

already done
K10
10. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

11. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 1-6 Coal Bunkers
2. Baghouse Manufacturer: American Air Filter Company
3. Model Name and Number: Roto-Clone Dynamic Precipitator
Type D
4. Design Flow Rate: 9,600 ACFM, Units 1-4 and 6
5,400 ACFM, Unit 5
5. Efficiency Rating at Design Capacity: 75.0%
6. Process Controlled by Collection System: Units 1-6 Coal
Bunkers
7. Coal Handling Rate: 1,600 tons/hour for each of
the six coal bunkers
8. Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Quarterly:

1. Motor Inspection

Annually:

1. Piping Inspection
2. Fan Inspection

C) Records:

Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

12. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250139
Project: F.J. Gannon Station Units
1-6 Coal Bunkers with
Six Roto-Clones

already done

13. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

already done

14. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



For Dr. 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.

Department of Environmental Protection



Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RECEIVED
Virginia B. Wetherell
Secretary

ENVIRONMENTAL
PLANNING

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Patrick A. Ho
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

DEP File No.: A029-250140
County: Hillsborough

Enclosed is Permit Number A029-250140 to operate F.J. Gannon Station Units 1-4 Fly Ash Silo (silo No. 2) with baghouse, located at Port Sutton Road, Tampa, Hillsborough County, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 299 & 17-4.

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 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 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, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

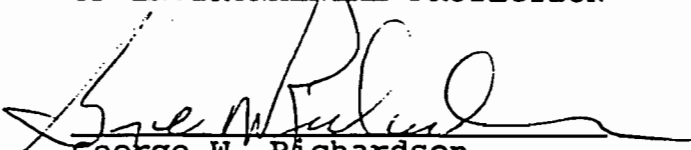
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Mr. Patrick A. Ho
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


George W. Richardson
Air Permitting Engineer
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100, Ext. 420

cc: Air Management Division, Environmental Protection
Commission of Hillsborough County
Eric M. Costello, P.E., Tampa Electric Company

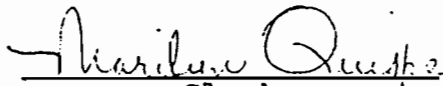
Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on JUL 20 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

JUL 20 1994
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: AO29-250140
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 1-4 Fly Ash
Silo with Baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 and 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 F.J. Gannon Station Units 1-4 Fly Ash Silo (silo No. 2) with baghouse. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 1-4 is pneumatically conveyed to a 30 foot diameter, 45.5 foot high silo. The fly ash in the silo is gravity fed by tubing into enclosed tanker trucks for transport to an off-site consumer.

Particulate emissions generated during the filling of the silo are controlled by a 4,690 ACFM Allen-Sherman-Hoff Corporation Flex Kleen 84 WRW C112IIG baghouse system which is comprised of two (2) bag filters with three (3) common stacks.

Location: Port Sutton Road, Tampa, Hillsborough County

UTM: 17-360.1 3087.5 N NEDS NO: 0040 Point ID:
11-Fly Ash Silo No. 2

Replaces Permit No.: AO29-160259

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

SPECIFIC CONDITIONS:

already done

1. A part of this permit is the attached 15 General Conditions.

I 3 2. Total allowable particulate matter emissions based on a design flow rate of 4,696 ACFM for the following source shall not exceed the following (Rule 17-296.711(2)(b), F.A.C.):

<u>Source</u>	<u>pounds/hour</u>	<u>tons/year</u>	<u>Emission Limitation</u>
Fly Ash Silo	1.2	5.3	0.03 grains/dscf

I 4 3. Visible emissions from the following source shall not exceed the following (Rule 17-296.711(2)(a), F.A.C.):

<u>Source</u>	<u>Emission Limitation</u>
Fly Ash Silo	5% Opacity

I 5 4. Test the emissions from the fly ash silo annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.): *62-297.310(8)(b)*

Report
I 12

(X) Particulate Matter (X) ~~Visible Emissions~~

62-297.310

I 14

5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2, 3, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests shall be conducted concurrently on the three common stacks and while loading the silo from at least 3 of the 4 units.

I 6

6. Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because the fly ash silo is equipped with a baghouse emission control device, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

48
7. All compliance tests will be conducted under the following conditions (Rule 17-4.070(3), F.A.C.):

- A) Conveyance blower will be turned off at least 1 hour prior to the test to allow an adequate build-up of fly ash in the precipitator hoppers.
- B) All conveyance hoppers will be operational during the tests.
- C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler system will occur during the tests.
- D) At least 3 of the 4 boilers shall be operational during the tests.

8. Testing of emissions to show compliance shall be conducted within 90-100% of the maximum permitted silo loading rate of 14.5 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, not to exceed the maximum permitted loading rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum permitted loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

reporting
#2

9. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

presenting
#3

10. 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 testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

I/P

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

already done

11. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but are not limited to, the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as needed basis. Also, tubing from the silo into the enclosed tanker truck shall be utilized during loading.

12. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 1-4 Fly Ash Silo
2. Baghouse Manufacturer: Allen-Sherman-Hoff Corporation
3. Model Name and Number: Flex Kleen 84 WRW C112IIG
4. Design Flow Rate: 4,696 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 8 in. water (maximum)
7. Air to Cloth Ratio: 2:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas Flow Rate: 4,696 ACFM
11. Gas Temperature: inlet, 300°F, outlet: 350°F
12. Stack Height Above Ground: 3 @ 107 feet
13. Exit Diameter: 3 @ 12 in.
14. Exit Velocity: 33 fps
15. Process Controlled by Collection System: Fly Ash
Material Handling
16. Material Handling Rate: Calculated to be 14.5 ton/hour
Fly Ash
17. Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop - inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250140
Project: F.J. Gannon Station Units
1-4 Fly Ash Silo with
Baghouse

Specific Condition No. 12 continued:

3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper if necessary.

record & reporting
C) Records:


11/4
Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

already done
13. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

already done
14. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

already done
15. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



1/21
Dr. 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.



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

RECEIVED

Virginia B. Wetherell
Secretary

JUL 22 1994

ENVIRONMENTAL
PLANNING

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Patrick A. Ho
Manager, Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

DEP File No.: A029-250137
County: Hillsborough

Enclosed is Permit Number A029-250137 to operate F.J. Gannon Station Units 5 and 6 Fly Ash Silo (silo No. 1) with baghouse and pugmill, located at Port Sutton Road, Tampa, Hillsborough County, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 299 & 17-4.

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 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 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, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

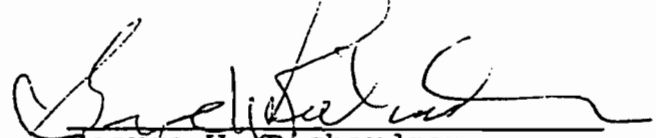
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Mr. Patrick A. Ho
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



George W. Richardson
Air Permitting Engineer
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100, Ext. 420

cc: Air Management Division, Environmental Protection
Commission of Hillsborough County
Eric M. Costello, P.E., Tampa Electric Company

Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on JUL 20 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

JUL 20 1994
Date



Department of Environmental Protection

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

Virginia B. Wetherell
Secretary

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601-0111 /

PERMIT/CERTIFICATION:

Permit No: A029-250137
County: Hillsborough
Expiration Date: 07/12/99
Project: F.J. Gannon Station
Units 5 and 6 Fly
Ash Silo with
Baghouse and Pugmill

J

This permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.) and Florida Administrative Code, (F.A.C.) Rules 17-200 through 299 and 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 F.J. Gannon Station Units 5 and 6 Fly Ash Silo (silo No. 1) with baghouse and pugmill. Fly ash that is collected in the hoppers of the electrostatic precipitators of Units 5 and 6 is pneumatically conveyed to a 25 foot diameter, 50 foot high silo. The fly ash in the silo is gravity fed by chute into enclosed tanker trucks or to a pugmill where it is "conditioned" by wetting with water and gravity fed by chute into open bed trucks. The fly ash is then transported to an off-site consumer.

Particulate emissions generated during the filling of the silo are controlled by a 11,300 ACFM United States Filter Corporation Mikro-Pulsaire Model 1F3-24 baghouse.

Location: Port Sutton Road, Tampa, Hillsborough County

UTM: 17-360.1 3087.5 N NEDS NO: 0040 Point ID:
10-Fly Ash Silo/Baghouse
12-Fly Ash Silo/Truck
Loading

Replaces Permit No.: A029-160258

machine used to blend material

Page 1 of 5.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

SPECIFIC CONDITIONS:

already done

1. A part of this permit is the attached 15 General Conditions.

J3

2. Total allowable particulate matter emissions based on a design flow rate of 11,300 ACFM for the following source shall not exceed the following (Rule 17-296.711(2)(b), F.A.C.):

<u>Source</u>	<u>pounds/hour</u>	<u>tons/year</u>	<u>Emission Limitation</u>
Fly Ash Silo	2.9	12.7	0.03 grains/dscf

J4

3. Visible emissions for the following sources shall not exceed the following (Rule 17-296.711(2)(a), F.A.C.):

<u>Source</u>	<u>Emission Limitation</u>
Fly Ash Silo/Baghouse	5% Opacity
Truck Loading	5% Opacity

J5

4. Test the emissions from the *fly ash silo/baghouse and **truck loading annually for the following pollutants within 60 days prior to or on March 22. A report of the test data shall be submitted to the Air Section of the Department's Southwest District Office and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of the testing (Rules 17-297.340 and 17-297.570, F.A.C.).

J12

- * (X) Particulate Matter ** (X) Visible Emissions
- * (X) Visible Emissions

J7

5. Compliance with the emission limitations of Specific Conditions No. 2 and 3 shall be determined using EPA Methods 1, 2, 3, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C. The minimum requirements for stationary point source sampling and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The visible emission compliance tests on the truck loading shall alternate from year to year, so that over a two year period both conditioned and unconditioned fly ash loading will be tested.

J13

6. Tampa Electric Company shall notify the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 15 days prior to the date on which the compliance test is to begin. The notice shall include, the date, time, and place of each test, and the test contact person who will be responsible for coordinating and having each test conducted (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: A029-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

J8 7. All compliance tests will be conducted under the following conditions (Rule 17-4.070(3), F.A.C.):

- A) Conveyance blower will be turned off at least 1 hour prior to the test to allow an adequate build-up of fly ash in the precipitator hoppers.
- B) All conveyance hoppers will be operational during the tests.
- C) All fly ash will be directed to the silo, no re-injection of fly ash to the boiler systems will occur during the tests.
- D) Both boilers shall be operational during the tests.

J9 8. Testing of emissions to show compliance shall be conducted while silo loading and truck loading are within 90-100% of the maximum loading rate of 13.05 tons/hour. Determination of process rate may be done by calculations, which shall be employed on a consistent basis. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate plus 10%, until another test, showing compliance at a higher rate, ~~not to exceed the maximum loading rate,~~ is submitted. Any time the permitted rate of the sources is exceeded by more than 10% a compliance test shall be performed within 15 days of initiation of the higher rate and the test results shall be submitted to the Department and the Air Management Division of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate plus 10%, but in no case shall the maximum loading rate be exceeded. Failure to submit the process rate and actual operating conditions in the test report may invalidate the test data (Rule 17-4.070(3), F.A.C.).

J10 9. Due to the expense and complexity of conducting a stack test on a minor source of particulate matter, and because the fly ash silo is equipped with a baghouse emission control device, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.

J10 10. 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 testing in accordance with Rule 17-297, F.A.C. (Rule 17-297.620(4), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

already done

11. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling. Reasonable precautions shall include, but are not limited to, the removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as needed basis.

J11

12. Operation and Maintenance Plan for Particulate Control (Rule 17-296.700(6), F.A.C.):

A) Process Parameters:

1. Source Designators: Units 5 and 6 Fly Ash Silo
2. Baghouse Manufacturer: United States Filter Corporation
3. Model Name and Number: Mikro-Pulsaire Unit #1F3-24
4. Design Flow Rate: 11,300 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 5 in. water (maximum)
7. Air to Cloth Ratio: 5:1
8. Bag Material: Polyester HCE
9. Filter Cleaning Method: Pulse Jet @ 100 psig
10. Gas Flow Rate: 11,300 ACFM
11. Gas Temperature: inlet and outlet; 300°F
12. Stack Height Above Ground: 104 feet
13. Exit Diameter: 18 in. X 26 in.
14. Exit Velocity: 58 fps
15. Process Controlled by Collection System: Fly Ash
Material Handling
16. Material Handling Rate: Calculated to be 13.05 ton/hour
Fly Ash
17. ~~Operation Schedule: 8,760 hours/year (24 hours/day,
7 days/week, 52 weeks/year)~~

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily:

1. Baghouse pressure drop - inspect the manometer at each change in shift (3 times daily). Log information. Change filter bags if necessary.
2. Visually inspect baghouse for abnormal emissions. Change filter bags and document if necessary.

PERMITTEE:
Tampa Electric Company

Permit No.: AO29-250137
Project: F.J. Gannon Station Units
5 and 6 Fly Ash Silo with
Baghouse and Pugmill

Specific Condition No. 12 continued:

3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning, etc.).
4. Observe indicators on control panel for abnormal operating conditions.
5. Unplug hopper if necessary.

C) Records:


Records of inspections, maintenance, and performance parameters shall be retained for a minimum of the last two years and shall be made available to the Department or the Air Management Division of the Environmental Protection Commission of Hillsborough County upon request (Rule 17-296.700(6)(e), F.A.C.).

J-14
already done
13. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

already done
14. Submit to both the Air Management Division of the Environmental Protection Commission of Hillsborough County and the Air Section of the Department's Southwest District Office each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2), F.A.C.).

already done
15. The permittee shall submit a minimum of two applications for the renewal of this operating permit to the Air Section of the Department's Southwest District Office and one copy of the application to the Air Management Division of the Environmental Protection Commission of Hillsborough County at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

For

Dr. 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.



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

RECEIVED JAN 19 1993

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

Lynn
Gray

CERTIFIED MAIL

Mr. Lynn F. Robinson
Manager, Environmental Planning
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

DER File No.: A029-218858
County: Hillsborough

Enclosed is Permit Number A029-218858 to operate Gannon Unit 4 Economizer Ash Silo controlled by a baghouse, issued pursuant to Section 403.087, Florida Statutes.

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 32399-2400, within fourteen (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 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, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends required 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 right 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.

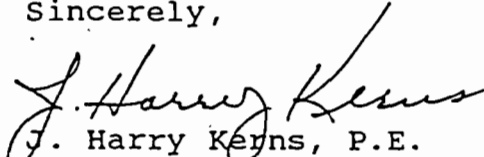
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone 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.

Tampa Electric Company
Tampa, FL 33601

Page Three

Executed in Tampa, Florida

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer

JHK/WES/bm

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

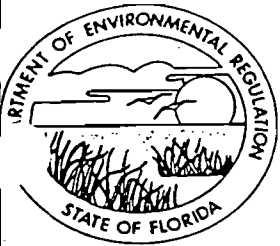
This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on JAN 15 1993 to the listed persons.

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

JAN 15 1993
Date



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

PERMITTEE:
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: A029-218858
County: Hillsborough
Expiration Date: 11/06/97
Project: F. J. Gannon Station
Unit 4 Economizer
Ash Silo with
Baghouse

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 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 of hereof and specifically described as follows:

For the operation of the F. J. Gannon Station Unit 4 Economizer Ash Handling System and Silo. Economizer ash collected in the economizer section of the boiler is either re-injected into the boiler or pneumatically conveyed to a 16 ft. diameter, 20 ft. high silo at a maximum rate of 1500 lbs./hr. The ash in the silo is gravity fed by tubing into closed tanker trucks for transport to an offsite consumer. Particulate emissions generated during the loading of the silo are controlled by an 830 ACFM Mikropul Corporation Model 365-10-30 baghouse.

Location: Port Sutton Road, Tampa

UTM: 17-360.1 E 3087.5 N NEDS NO: 0040 Point ID: 09

Replaces Permit No.: A029-160260

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS:

already done
1. A part of this permit is the attached 15 General Conditions.

L3. 2. The maximum allowable emissions for this baghouse, based on a design flow of 496 DSCFM (830 ACFM), shall not exceed: [Rule 17-296.711(2), F.A.C.]

<u>Pollutant</u>	<u>lbs./hr.</u>	<u>tons/yr.</u>	<u>Emission Limitation</u>
Particulate Matter	0.13	0.56	0.03 grains/dscf
Visible Emissions			None (visible emissions less than or equal to <u>5% opacity</u>)

L4. 3. The maximum allowable emission rate for particulate matter for this source is set by Specific Condition No. 2. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., ~~hereby allows the particulate testing to be waived in lieu of a visible emission limitation not to exceed an opacity of 5% for the duration of the thirty (30) minute test.~~

L10
report
4. The permittee shall notify 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 contact person who will be responsible for coordinating and having such test conducted. [Rules 17-297.340(1)(i) and 17-209, F.A.C.]

L5. 5. Testing of emissions must be accomplished at 90-100% of the maximum electrical generating capacity (normally 187 MW) of Unit 4, with 100% of the economizer ash available directed to the silo. The actual MW generation rate shall be specified in each test report. Failure to include the actual generating rate in the report may invalidate the test. [Rule 17-4.070(3), F.A.C.]

L6
L11
6. Test the emissions within 30 days of start-up and annually thereafter within thirty (30) days of the anniversary of the start-up date. Submit one copy of the test report to the Environmental Protection Commission of Hillsborough County and one to the Florida Department of Environmental Regulation within forty-five (45) days of testing. Testing procedures shall be consistent with the requirements of Rule 17-297, F.A.C.

L7. 7. 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 standards be demonstrated by testing. [Rule 17-297, F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

8. Operation and Maintenance Plan for Particulate Control: [Rule 17-296.700, F.A.C.]

A) Process Parameters:

1. Source Designators: Economizer Ash Silo
2. Baghouse Manufacturer: Micropul Corporation
3. Model Name and Number: 365-10-30
4. Design Flow Rate: 830 ACFM
5. Efficiency Rating at Design Capacity: 99.9%
6. Pressure Drop: 6 in. H2O max.
7. Air to Cloth Ratio: 2:1
8. Bag Weave: Not Specified
9. Bag Material: Nomex
10. Bag Cleaning Conditions: Pulse Jet @ 100 psig.
11. Gas Flow Rate: 830 ACFM
12. Gas Temperatures: inlet; 350 F.; outlet; 350 F.
13. Stack Height Above Ground: 72 ft.
14. Exit Diameter: 8 in.
15. Exit Velocity: 21 f.p.s.
16. Water Vapor Content: 29%
17. Process Controlled by Collection System: Fly Ash Handling
18. Material Handling Rate: 1500 lbs./hr. (estimated)
19. Operation Schedule: 24 hrs./day; 7 days/wk.; 52 wk./yr.

B) The following observations, checks and operations apply to this source and shall be conducted on the schedule specified:

Daily

1. Check pressure drop and operation of manometer at each shift change (three times daily).
2. Observe stack (visual), and change filter bags as necessary. Document date and number of bags replaced.
3. Walk through system listening for proper operation (audible leaks, proper fan and motor functions, bag cleaning systems, etc.).
4. Note any unusual occurrence in the process being ventilated.
5. Observe all indicators on control panel for abnormal operation.
6. Check reverse air pressure.
7. Assure that dust is being removed from system. Unplug hopper if required.

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 Environmental Protection Commission of Hillsborough County upon request. [Rule 17-296.700(6)(e), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-218858
PROJECT: F. J. Gannon Station Unit 4
Economizer Ash Silo with
Baghouse

SPECIFIC CONDITIONS: (continued)

already done
9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, loading or transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

already done
10. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Chapter 1-3.22(3) of the Rules of the Environmental Protection Commission of Hillsborough County]

already done
11. Effective upon start-up, submit for the silo ash handling system each calendar year on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), Florida Statutes:

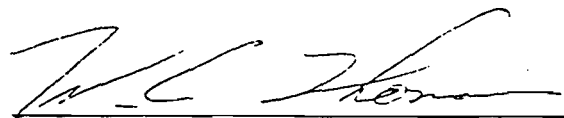
- A) Annual amount of materials and/or fuels utilized.
- B) Annual emissions (note calculation basis).
- C) Any changes in the information contained in the permit application.

The report shall be submitted only to the Environmental Protection Commission of Hillsborough County.

already done
12. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 17-200, F.A.C. series rules, or any other requirements under federal, state, or local law. [Section 17-210.300, F.A.C.]

already done
13. Two applications for renewal of permit to operate this source shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date. If this source is not reactivated before the expiration of this permit, the permit shall not be renewed. [Rules 17-4.090 and 17-210.300, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard Garrity, Ph.D.
Director of District Management



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

AUG - 3 1994

4APT-AEB

Mr. A. Spencer Autry
Designated Representative
Tampa Electric Company
P.O. Box 111
Tampa, Florida 33601-0111

Dear Mr. Autry:

Enclosed you will find the final Acid Rain permit issued by the U.S. Environmental Protection Agency (EPA) for Tampa Electric Company - F.J. Gannon. The permit was issued by EPA Region IV on July 15, 1994. The enclosed notice of this final permit action was published in the Federal Register on July 28, 1994. Additionally, we have enclosed the response to comments document applicable to your facility. This document will be included in the official EPA administrative record.

Your cooperation has been appreciated. If you have any questions, please contact Scott Davis or me at (404) 347-5014.

Sincerely,

A handwritten signature in black ink, appearing to read "B. Beals", written over a white background.

Brian L. Beals
Acting Chief
Source Evaluation and
Asbestos Section
Air, Pesticides and Toxics
Management Division

Enclosure

cc: Preston Lewis, FDEP



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

PHASE I ACID RAIN PERMIT

Issued to: Tampa Electric Corporation-F.J. Gannon
Operated by: Tampa Electric Corporation
Effective: January 1, 1995 to December 31, 1999

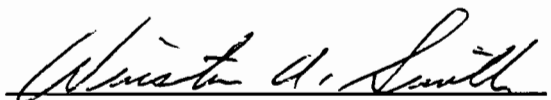
Summary of Previous Actions

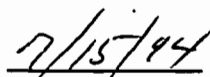
This page will be replaced to document new EPA actions each time a new action is taken by the Agency. The following actions have been taken:

1. Draft permit, including SO₂ compliance plan, July 16, 1993
issued for public comment.
(See page 1)

Present Action

2. SO₂ portion of permit issued as direct final permit, which will be final 40 days after notice in the Federal Register, unless adverse comment is received within 30 days after publication.


Signature


Date

Winston A. Smith
Director, Air, Pesticides and Toxics Management Division
U.S. Environmental Protection Agency, Region IV
345 Courtland Street, N.E.
Atlanta, Georgia 30365
Telephone: (404) 347-3043

Facsimile: (404) 347-5207



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

PHASE I ACID RAIN PERMIT

Issued to: Tampa Electric Corporation-F.J. Gannon
Operated by: Tampa Electric Corporation
Effective: January 1, 1995 to December 31, 1999

The Acid Rain Permit comprises the following:

1. The statement of basis prepared by EPA containing:

Part A, with references to statutory and regulatory authorities, and comments, notes and justifications that apply to the source in general; and

Part B, for each unit at this source:

- a table of SO₂ allowances to be allocated under this permit during Phase I, and
- comments, notes and justifications regarding permit decisions and changes made to the permit application during the review process, and any additional requirements.

2. The permit application that this source submitted, as corrected by EPA. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Statement of Basis. Part A

Plant Name: F.J. Gannon
State: Florida
ORIS Code: 0646

Statutory and Regulatory Authorities. In accordance with Title IV of the Clean Air Act Amendments of 1990, the U. S. Environmental Protection Agency issues this permit pursuant to 40 CFR part 72, subparts E and F.

Comments, notes and justifications that apply to the source in general:

Due to a typographical error on the Phase I Permit Application form, the reference on the Phase I Permit Application form at Step 2, "Hold allowances in accordance with 40 CFR 72.9(d)(1)," has been changed to "Hold allowances in accordance with 40 CFR 72.9(c)(1)."

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

Statement of Basis. Part B

Plant Name: F.J. Gannon
 State: Florida
 ORIS Code: 0646
 Boiler ID#: GB01

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	3,132*	3,132*	3,132*	3,132*	3,132*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If this plan is activated, this substitution unit will receive the allowances indicated above.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
 Permit Reviewer

R. Scott Davis
 Signature

7/14/94
 Date

Statement of Basis. Part B

Plant Name: F.J. Gannon
State: Florida
ORIS Code: 0646
Boiler ID#: GB02

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	4,581*	4,581*	4,581*	4,581*	4,581*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If this plan is activated, this substitution unit will receive the allowances indicated above and 9 additional ("excess") allowances. For each additional allowance, one allowance will be deducted from a future year subaccount in this unit's Allowance Tracking System account.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

Plant Name: F.J. Gannon
 State: Florida
 ORIS Code: 0646
 Boiler ID#: GB03

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	7,003*	7,003*	7,003*	7,003*	7,003*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If the plan is activated, this substitution unit will receive the allowances indicated above and 437 additional ("excess") allowances. For each additional allowance, one allowance will be deducted from a future year subaccount in this unit's Allowance Tracking System account.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
 Permit Reviewer

R. Scott Davis
 Signature

7/14/94
 Date

Plant Name: F.J. Gannon
 State: Florida
 ORIS Code: 0646
 Boiler ID#: GB04

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	7,570*	7,570*	7,570*	7,570*	7,570*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If this plan is activated, this substitution unit will receive the allowances indicated above and 450 additional ("excess") allowances. For each additional allowance, one allowance will be deducted from a future year subaccount in this unit's Allowance Tracking System account.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
 Permit Reviewer

R. Scott Davis
 Signature

7/14/94
 Date

Statement of Basis. Part B

Plant Name: F.J. Gannon
State: Florida
ORIS Code: 0646
Boiler ID#: GB05

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	10,295*	10,295*	10,295*	10,295*	10,295*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If this plan is activated, this substitution unit will receive the allowances indicated above and 520 additional ("excess") allowances. For each additional allowance, one allowance will be deducted from a future year subaccount in this unit's Allowance Tracking System account.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

Plant Name: F.J. Gannon
 State: Florida
 ORIS Code: 0646
 Boiler ID#: GB06

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	N/A	N/A	N/A	N/A	N/A
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	16,107*	16,107*	16,107*	16,107*	16,107*
Reduced Utilization 40 CFR 72.43	N/A	N/A	N/A	N/A	N/A

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

See changes made to the Permit Application form on Statement of Basis, page 2.

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (executed on May 4, 1994):

*1. EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Tampa Electric Company-Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units. If this plan is activated, this substitution unit will receive the allowances indicated above and 377 additional ("excess") allowances. For each additional allowance, one allowance will be deducted from a future year subaccount in this unit's Allowance Tracking System account.

2. The value in step 3, column e, of the substitution plan for this unit reflects the lesser of (i) the unit's 1985 actual emission rate from NADB, (ii) the unit's 1985 allowable emission rate from NADB, (iii) the greater of the unit's 1989 or 1990 actual emissions rate, or (iv) the unit's most stringent federally enforceable or state enforceable emissions limitation for Phase I as of November 15, 1990. The value in step 4, column e, reflects any change in step 3.

R. SCOTT DAVIS
 Permit Reviewer

R. Scott Davis
 Signature

7/14/94
 Date

RESPONSE TO COMMENTS DOCUMENT

FOR

PUBLIC COMMENT PERIOD

FOR

Tampa Electric Company

F.J. Gannon Station

Phase I Acid Rain Permit

Docket/ORIS Code Number 0646

United States Environmental Protection Agency

Region IV

Atlanta, GA

Prepared on July 12, 1994

Prepared By: Kevin I. Taylor
R. Scott Davis

RESPONSE TO COMMENTS

PHASE I ACID RAIN PERMIT
TAMPA ELECTRIC COMPANY
F.J. GANNON
DOCKET/ORIS CODE NO. 0646:

During the comment period for the draft Phase I Acid Rain Permit for Tampa Electric Company-F.J. Gannon, the U.S. Environmental Protection Agency (EPA) received a number of comments from individuals and organizations wishing to modify or change the permit. This document responds to and summarizes these comments and identifies the changes, if any, that have resulted in the permit.

I. Reduced Utilization and Substitution Plans

Section 1: Proposed Deferred Approval of 1996 through 1999 Compliance Plans.

Comment 1.1: Support proposed decision to not approve substitution and reduced utilization (with compensating units) plans for 1996-1999 period until regulations revised in a manner that is consistent with the Act. Additionally, the approval of these plans would result in a significant increase in allowable emissions.

Commenter(s): Natural Resources Defense Council (NRDC) et al.*

Response: Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (D.C. Cir. 1993) (signed May 4 and 20, 1994), EPA is not deferring action for any years on any substitution or reduced utilization plans or portions of plans and is approving (or disapproving) the plans and allocating allowances under certain conditions. See Statement of Basis in the final permit. The settlement reasonably resolves the issue of excess, new allowances. Because EPA is not deferring action on any plans or portions of plans, comments objecting to deferral of action are moot.

Comment 1.2: The EPA cannot defer action on compliance plans for the years 1996 through 1999.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.3: The compliance plans submitted fully comply with the regulations in effect and therefore must be approved for the full five-year period.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.4: The EPA has a binding duty under the Act, including section 408(c)(2) of the Act, to approve or disapprove a compliance plan within six months after a complete submission and to issue permits for a five-year period. This does not allow for a deferral of final action for years 1996 through 1999.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.5: The existing regulations, including 40 CFR 72.62(a), do not allow for a deferral of final action.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.6: For any possible future changes to the Acid Rain rules, the revised rules would apply only prospectively to those plans submitted after the promulgation date of revised rules.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Section 2: One Year Compliance Plan Approval

Comment 2.1: Blanket approval of substitution and reduced utilization plans for 1995 will result in excess allowances, significantly greater SO₂ emissions, and, ultimately, nonattainment of Phase I reductions mandated under the Act. Therefore, approval of plans for one year requires EPA to first acquire, and make available to the public, preapplication emission rates for substitution and compensating units, and adopted State/local emission rates that are applicable to such units now or in Phase I. Second, based on that information, EPA must conduct a substantive review of each application to assure excess allowances are not issued.

Commenter(s): Natural Resources Defense Council (NRDC) et al.*

Response: See Comment 1.1.

Comment 2.2: Before grandfathering any compliance plan for the one year (1995) period that could result in granting excess allowances, EPA must assess for the individual plans the reliance of, and the burdens on, the owner and operator. Only if the reliance and burden factors are significant can EPA grandfather a compliance plan for the one year period.

Commenter(s): Natural Resources Defense Council (NRDC) et al.*

Response: See Comment 1.1.

* Commenters represented by the NRDC submission include, Wasatch Clean Air Coalition, Southern Environmental Law Center, New Jersey Environmental Lobby, Sierra Club-Utah Chapter, Sierra Club, Kentucky Resources Council, A W Butler Audubon Society, Environmental Defense Fund, Audubon Society of New Hampshire, Appalachian Mountain Club, Wyoming Outdoor Council, Sierra Club-PA Chapter, Ohio Environmental Council, Campaign for Prosperous Georgia, and American Lung Association of New Jersey.

Angeles, Houston, New York City, Baltimore, Chicago, San Diego, Philadelphia, Hartford and Milwaukee. Under section 211(k)(10)(D), any area reclassified as a severe ozone nonattainment area under section 181(b) is also to be included in the reformulated gasoline program.

Any other ozone nonattainment area may be included in the program at the request of the governor of the state in which the area is located. Section 211(k)(6)(A) provides that upon the application of a Governor, EPA shall apply the prohibition against selling conventional gasoline (gasoline EPA has not certified as reformulated) in any area requested by the Governor which has been classified under subpart 2 of part D of title I of the Act as a Marginal, Moderate, Serious or Severe ozone nonattainment area.¹ Subparagraph 211(k)(6)(A) further provides that EPA is to apply the prohibition as of the date the Administrator "deems appropriate, not later than January 1, 1995, or 1 year after such application is received, whichever is later." In some cases the effective date may be extended for such an area as provided in section 211(k)(6)(B) based on a determination by EPA that there is "insufficient domestic capacity to produce" reformulated gasoline. Finally, EPA is to publish a governor's application in the Federal Register. To date, EPA has received and published applications from the Mayor of the District of Columbia and the Governors of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and Texas. Although Vermont has requested to opt-in to the program, states without ozone nonattainment areas, such as Vermont, can not do so. EPA published final regulations for the reformulated gasoline program on February 16, 1994 (59 FR 7716).

II. The Governor's Request

EPA received an application from the Hon. Brereton C. Jones, Governor of the State of Kentucky, for the Kentucky portions of the Louisville and the Cincinnati-Hamilton ozone nonattainment areas to be included in the reformulated gasoline program. His application is set out in full below.

[State of Kentucky letterhead]

September 19, 1993.

Ms. Carol Bröwner, Administrator,
U.S. Environmental Protection Agency, 401
M Street, SW., Washington, DC 20460

Dear Ms. Browner: In accordance with Section 211(k), (6)(A) of the Federal Clean Air Act, I request that, beginning January 1, 1995, the prohibition applying to the sale of conventional gasoline be extended to the Kentucky portion of the Louisville ozone non-attainment area and the Kentucky portion of the Cincinnati-Hamilton ozone non-attainment area. The Kentucky portion of the Louisville non-attainment area consists of Jefferson County and a portion of Bullitt and Oldham Counties. The Kentucky portion of the Cincinnati ozone non-attainment area consists of Boone, Campbell and Kenton Counties.

The Kentucky Natural Resources and Environmental Protection Cabinet recommended that I apply to you to require the use of reformulated gasoline in these counties in order to help achieve the reduction of volatile organic compounds mandated in Section 182(b)(1) of the Clean Air Act. The revision to Kentucky's State Implementation Plan for achieving a 15% reduction of volatile organic compounds due by November 15, 1993 will include emission reductions gained by the use of reformulated gasoline.

Sincerely,

Brereton C. Jones.

III. Action

Pursuant to the governor's letter and the provisions of section 211(k)(6), the prohibitions of subsection 211(k)(5) will be applied to the Kentucky portions of the Louisville and Cincinnati-Hamilton ozone non-attainment areas beginning January 1, 1995 (unless delayed, as provided above). The Kentucky portion of the Louisville non-attainment area consists of Jefferson County and a portion of Bullitt and Oldham Counties. The Kentucky portion of the Cincinnati ozone non-attainment area consists of Boone, Campbell and Kenton Counties. These ozone nonattainment areas are classified as moderate.²

Based on the governor's application, EPA's final rule for reformulated gasoline included these areas as covered area (40 CFR 80.70(j)).³

The application of the prohibitions to the Kentucky portions of the Louisville and Cincinnati-Hamilton areas cannot take effect any earlier than January 1, 1995 under section 211(k)(5) and cannot take effect any later than January 1, 1995, under section 211(k)(6)(A), unless the Administrator extends the effective date by rule under section 211(k)(6)(B).

Dated: July 15, 1994.

Carol M. Browner,
Administrator.

[FR Doc. 94-18388 Filed 7-27-94; 8:45 am]
BILLING CODE 6560-60-P

[FRL-5021-1]

Acid Rain Program: Notice of Final Permits

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice of permits.

SUMMARY: The U.S. Environmental Protection Agency (EPA) is issuing, as a direct final action, 5-year Phase I Acid Rain Permits to 13 utility plants in accordance with the Acid Rain Program regulations (40 CFR part 72).

DATES: The permits will become final on September 6, 1994, except those permits on which EPA receives significant adverse comment by August 29, 1994. If EPA receives significant adverse comment on a permit, EPA will withdraw the direct final issuance of that permit and simultaneously repropose the permit. Such reproposal will provide an opportunity for public comment and requests for a public hearing.

ADDRESSES: Administrative Records. The administrative record for the permits, except information protected as confidential, may be viewed during normal operating hours at these locations:

For plants in New York: EPA Region 2, Jacob K. Javits Federal Bldg., 26 Federal Plaza, Room 505, New York, NY 10278.

For plants in Florida and Kentucky: EPA Region 4, 345 Courtland St., NE., Atlanta, GA 30365.

For plants in Missouri: EPA Region 7, 726 Minnesota Ave., Kansas City, KS 66101.

Comments. Send comments to the following addresses:

For plants in New York: EPA Region 2, Air and Waste Management Division, Attn: Steven C. Riva (address above)

For plants in Florida and Kentucky: EPA Region 4, Air, Pesticides, and Toxics Management Division, Attn: Winston Smith, Director (address above).

For plants in Missouri: EPA Region 7, Air and Toxics Division, Attn: Jon Knodel (address above).

Submit comments in duplicate and identify the permit to which the comments apply, the commenter's name, address, and telephone number, and the commenter's interest in the matter and affiliation, if any, to the owners and operators of all units in the permit. In the comment, include objections to the permit and the legal, factual, or other basis for the objections. This information will be used by EPA to determine if the comment is a significant adverse comment.

¹ EPA promulgated such designations pursuant to section 107(d)(4) of the Act (56 FR 56694; November 6, 1991).

² See 56 FR 56764, 54765 (November 6, 1991).

³ 59 FR 7852 (February 16, 1994).

FOR FURTHER INFORMATION CONTACT:

Contact the following persons for more information about a permit listed in this notice:

For plants in New York, Gerry DeGaetano, (212) 264-6685, EPA Region 2.

For plants in Florida and Kentucky, Scott Davis, (404) 347-5014, EPA Region 4 (address above).

For plants in Missouri, Jon Knodel, (913) 551-7622, EPA Region 7.

SUPPLEMENTARY INFORMATION: Title IV of the Clean Air Act directs EPA to establish a program to reduce the adverse effects of acidic deposition by promulgating rules and issuing permits to emission sources subject to the program. On January 11, 1993, EPA promulgated final rules implementing the program. Subsequently, several parties filed petitions for review of the rules with the U.S. Court of Appeals for the District of Columbia Circuit. On November 18, 1993, EPA published a notice of proposed revisions to rules regarding Phase I substitution and reduced utilization plans (sections 404(b) and (c) and 408(c)(1)(B) of the Act). On May 4, 1994, EPA and other parties signed a settlement agreement addressing the substitution and reduced utilization issues.

In today's action, EPA is issuing permits that are consistent with the May 4, 1994 settlement. Except as noted below, EPA approves for 1995-1999 all compliance options for which EPA deferred action for 1996-1999 in the draft permits. In addition, except as noted below, the numbers of substitution and compensating unit allowances allocated to each unit for 1995-1999 are identical to the numbers of allowances allocated to each unit for 1995 in the draft permits. The additional allowances discussed below are a one-time only allocation pursuant to the settlement. Upon activation of conditionally-approved plans, substitution or compensating unit allowances are allocated for the remaining years the plan is in effect. EPA issues the following permits:

Northport in New York.

Port Jefferson in New York.

Big Bend in Florida.

F J Gannon in Florida: No change for unit GB01; 4,581 substitution allowances for each year and 9 additional allowances to unit GB02 upon activation of substitution plan; 7,003 substitution allowances for each year and 437 additional allowances to unit GB03 upon activation of substitution plan; 7,570 substitution allowances for each year and 450 additional allowances to unit GB04

upon activation of substitution plan; 10,295 substitution allowances for each year and 520 additional allowances to unit GB05 upon activation of substitution plan; 16,107 substitution allowances for each year and 377 additional allowances to unit GB06 upon activation of substitution plan.

Hookers Point in Florida: 0 substitution allowances for each year and 27 additional allowances to unit HB01 upon activation of substitution plan; 31 substitution allowances for each year and 3 additional allowances to unit HB02 upon activation of substitution plan; 92 substitution allowances for each year and 9 additional allowances to unit HB03 upon activation of substitution plan; 145 substitution allowances for each year and 15 additional allowances to unit HB04 upon activation of substitution plan; 124 substitution allowances for each year and 13 additional allowances to unit HB05 upon activation of substitution plan; 207 substitution allowances for each year and 13 additional allowances to unit HB06 upon activation of substitution plan.

Big Sandy in Kentucky.

Coleman in Kentucky.

Cooper in Kentucky.

Dale in Kentucky: 2,115 substitution allowances for each year and 226 additional allowances to unit 3 upon activation of substitution plan, and 226 additional allowances if the unit becomes affected for NO_x; 1,729 substitution allowances for each year and 166 additional allowances to unit 4 upon activation of substitution plan, and 166 additional allowances if the unit becomes affected for NO_x.

East Bend in Kentucky.

H L Spurlock in Kentucky: 14,206 substitution allowances for each year and 1,593 additional allowances to unit 2 upon activation of substitution plan, and 1,593 additional allowances if the unit becomes affected for NO_x.

R D Green in Kentucky: No change for unit G1; 5,827 substitution allowances for each year and 492 additional allowances to unit G2.

Sibley in Missouri: 2,782 substitution allowances for each year and 28 additional allowances to unit 1; 3,332 substitution allowances for each year and 130 additional allowances to unit 2.

Dated: July 14, 1994.

Brian J. McLean,

Director, Acid Rain Division, Office of Atmospheric Programs, Office of Air and Radiation.

[FR Doc. 94-18323 Filed 7-27-94; 8:45 am]

BILLING CODE 6560-50-P

[FRL-5021-5]

Restatement of Policies Related to Environmental Auditing

AGENCY: Environmental Protection Agency (EPA).

ACTION: Notice.

SUMMARY: The EPA Environmental Auditing Policy Statement ("1986 Policy") was originally published in the Federal Register on July 9, 1986 (51 FR 25004). The 1986 Policy states that "(c)larification of EPA's position regarding auditing may help encourage regulated entities to establish audit programs or upgrade systems already in place." The goal of this notice is to clarify EPA's current policies on and approach to auditing. This notice summarizes salient points from the 1986 Policy, which remains in effect. In addition, this notice updates the Agency's activities with respect to auditing and auditing policy and references pertinent language from other relevant policy documents, in anticipation of the public meeting on auditing scheduled for July 27-28, 1994. This notice does not represent a new EPA policy or position on environmental auditing; all existing policies remain in effect.

I. Auditing Public Meeting: Change of Location

The response to EPA's announcement (59 FR 31914, June 20, 1994) to hold a public meeting on auditing on July 27-28, 1994 has been overwhelming. Due to the expected size of the audience, therefore, the Agency has changed the location of this event. The new location is the Stouffer Mayflower Hotel in Washington, DC, at 1127 Connecticut Avenue, NW, Phone (202) 347-3000.

II. The Auditing Policy Reassessment

In response to a request by Administrator Carol M. Browner, the Office of Enforcement and Compliance Assurance (OECA) is reassessing the Agency's current policy regarding environmental auditing and self-evaluation by the regulated community. EPA has committed to investigating the perceived problems relating to auditing, self-evaluation, and disclosure through an empirical, information-gathering effort. The Agency must develop an adequate information base to give serious consideration to any policy options and to ensure that any decision to either reinforce, change, or supplement existing policy is informed by fact.

EPA hopes to collect such relevant data through the implementation of four actions this summer. First, the Agency

APPENDIX E
POLLUTANT CODES

POLLUTANT CODES

FACILITY POLLUTANT INFORMATION

Pollutant	FDEP Code	ELSA No.
Sulfur Dioxide	SO2	1
Nitrogen Oxides	NOX	2
Particulate Matter	PM	3
Particulate Matter Having an Aerodynamic Diameter of 10 Microns or Less	PM10	4
Carbon Monoxide	CO	5
Volatile Organic Compounds	VOC	6
Hydrogen Chloride	H106	7
Hydrogen Fluoride	H107	8
Sulfuric Acid Mist	SAM	9

APPENDIX F
SO₂ COMPLIANCE PLAN

PROPOSED
FRANCIS J. GANNON STATION
SULFUR DIOXIDE
REGULATORY COMPLIANCE
PLAN

~ Station Load
#1 1257 mmbtu/hr
#2 1257
#3 1599
#4 1876
#5 2284
#6 3798
CT 256.5
12,327.5 mmbtu/hr

I. Introduction

This compliance plan has been developed to explain how Tampa Electric Company intends to demonstrate that its Gannon Station operations will be maintained in such a manner that current allowable emissions will not be increased and that Florida Ambient Air Quality Standards (AAQS) will be protected.

The current allowable sulfur dioxide emission rate for individual coal burning units at Gannon Station is 2.4 lbs. per million BTU based on a weekly composite fuel analysis. The current allowable sulfur dioxide emission rate for the entire station can be calculated at 10.6 tons per hour, also over a weekly period. Part I of the compliance plan describes how weekly generation data and weekly fuel analyses data will be used to demonstrate compliance with the existing 2.4 lbs/MMBTU and the 10.6 tons per hour limitations.

Allowable emission rates over a 24-hour averaging time are limited by ambient impacts predicted with dispersion modeling. The results of this modeling indicate that maximum emission rates for the protection of AAQS vary inversely with station load. Detailed sulfur variability statistical studies (Entropy, Inc. August 1980) indicate that compliance with a weekly limit 2.4 lbs. per million BTU assures compliance with the 24-hour AAQS up to 10,050 MMBTU per hour (about 83% station load). Part II describes how at load points above 10,050 MMBTU per hour, daily fuel analysis will be performed and examined carefully to ensure operations at appropriate levels.

II. PART I - COMPLIANCE WITH EMISSION LIMITS

The purpose of this portion of the plan is to show compliance with a 2.4 lbs. SO₂/MMBTU emission limit and a 10.6 tons SO₂/hour emission cap over a weekly averaging period and ensure compliance with Florida Ambient Air Quality standards. Inputs to this portion of the plan include weekly station generation data, station heat rate data and weekly composite fuel analysis results.

As shown graphically on Figure 1, the plant operating range to ensure compliance with existing emission limitations is dependant on weekly station load and weekly composite fuel quality (lbs. SO₂/MMBTU). Operating the plant below 8850 MMBTU/HR (73% load) on a weekly average with a 2.4 lb/MMBTU or less fuel automatically ensures compliance with both the emission limit and the emission cap. When the plant is operated above 8850 MMBTU/HR on a weekly average, the fuel quality must be below 2.4 lbs. SO₂/MMBTU. The maximum weekly average heat input for a given fuel quality can be obtained from Figure 1.

Compliance on a weekly basis will be demonstrated in the following manner. A weekly composite fuel analysis will be obtained and the SO₂ emission rate will be calculated using the percent sulfur and the heating value of the fuel in the following equation:

$$\text{lbs SO}_2/\text{MMBTU} = \frac{(\text{percent sulfur } (100)(.95)(2 \text{ lb SO}_2/\text{lb S})(1,000,000 \text{ BTU/MMBTU})}{(\text{heating value, BTU/lb})}$$

The tons of SO₂/hour will be calculated from the weekly heat input. The weekly heat input is calculated from the weekly generation and the station heat rate as follows:

$$\text{Heat input, MMBTU/week} = (\text{heat rate, MMBTU/KWH}) (\text{generation, KWH/week})$$

The tons SO₂ emitted per hour will then be calculated as follows:

$$\text{tons SO}_2/\text{hour} = \frac{(\text{heat input, MMBTU/week}) (\text{lbSO}_2/\text{MMBTU})}{(2000 \text{ lb/ton}) (168 \text{ hours/week})}$$

III. PART II - COMPLIANCE WITH FLORIDA AMBIENT AIR QUALITY
STANDARDS

The purpose of this portion of the compliance plan is to ensure protection of the 24 hour and 3 hour Florida AAQS based on actual conditions modeled and actual load conditions.

The primary input to this part of the compliance plan is the peak load availability and forecast for the following day. If this value is less than 10,050 MMBTU/HR then the sulfur variability statistics and Part I of this plan assure protection of the AAQS and no further action need be taken.

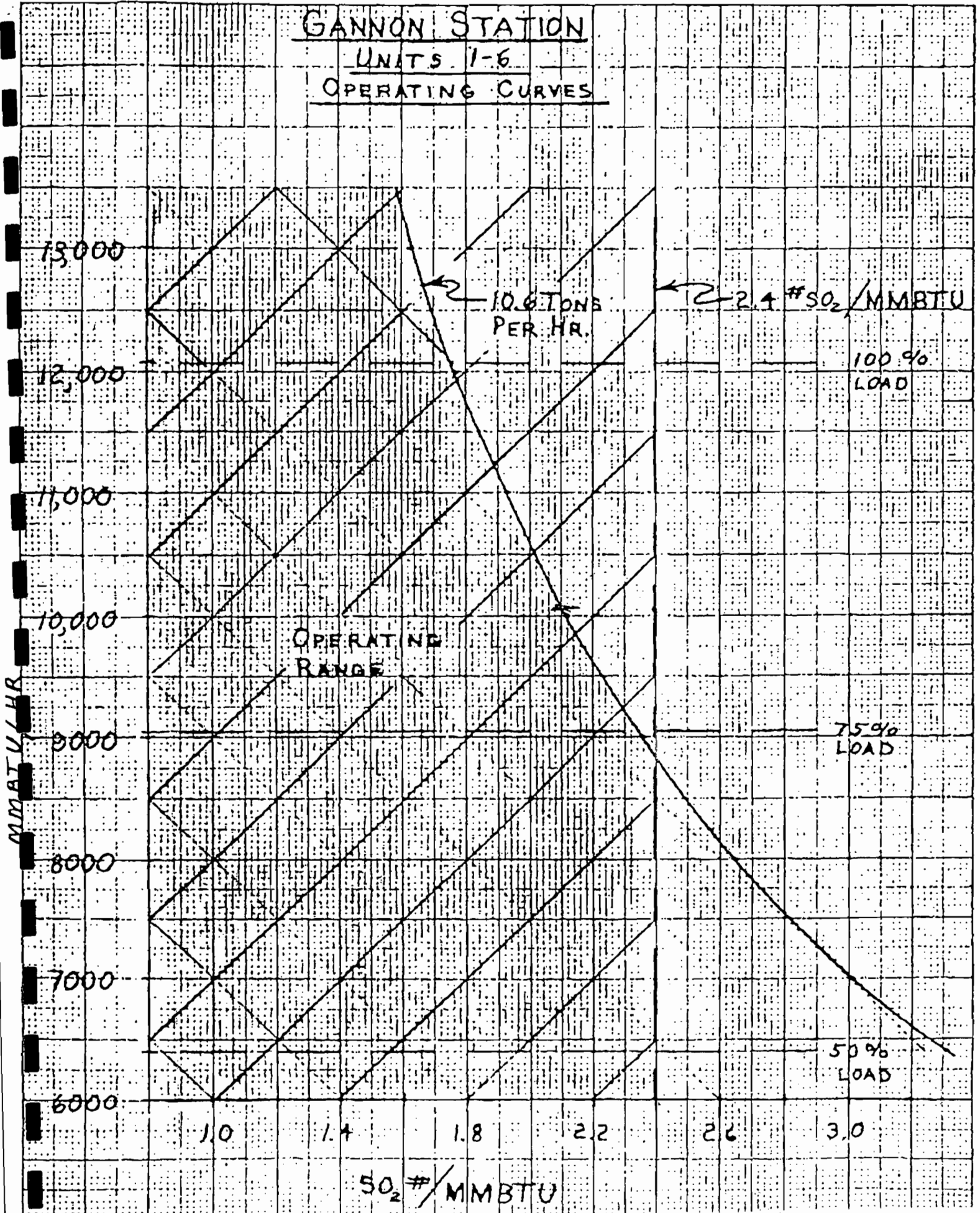
If the projected peak load is above 10,050 MMBTU/HR (see Figure 2), then a fuel analysis of the coal to be burned the following day will be performed. When the result of this fuel analysis is obtained and the lbs SO₂ per MMBTU has been calculated, Figure 2 will be examined to find the maximum allowable operating point. The Plant Superintendent will then be notified of the maximum allowable operating point.

IV. OPERATING FIGURES

GANNON STATION

UNITS 1-6

OPERATING CURVES

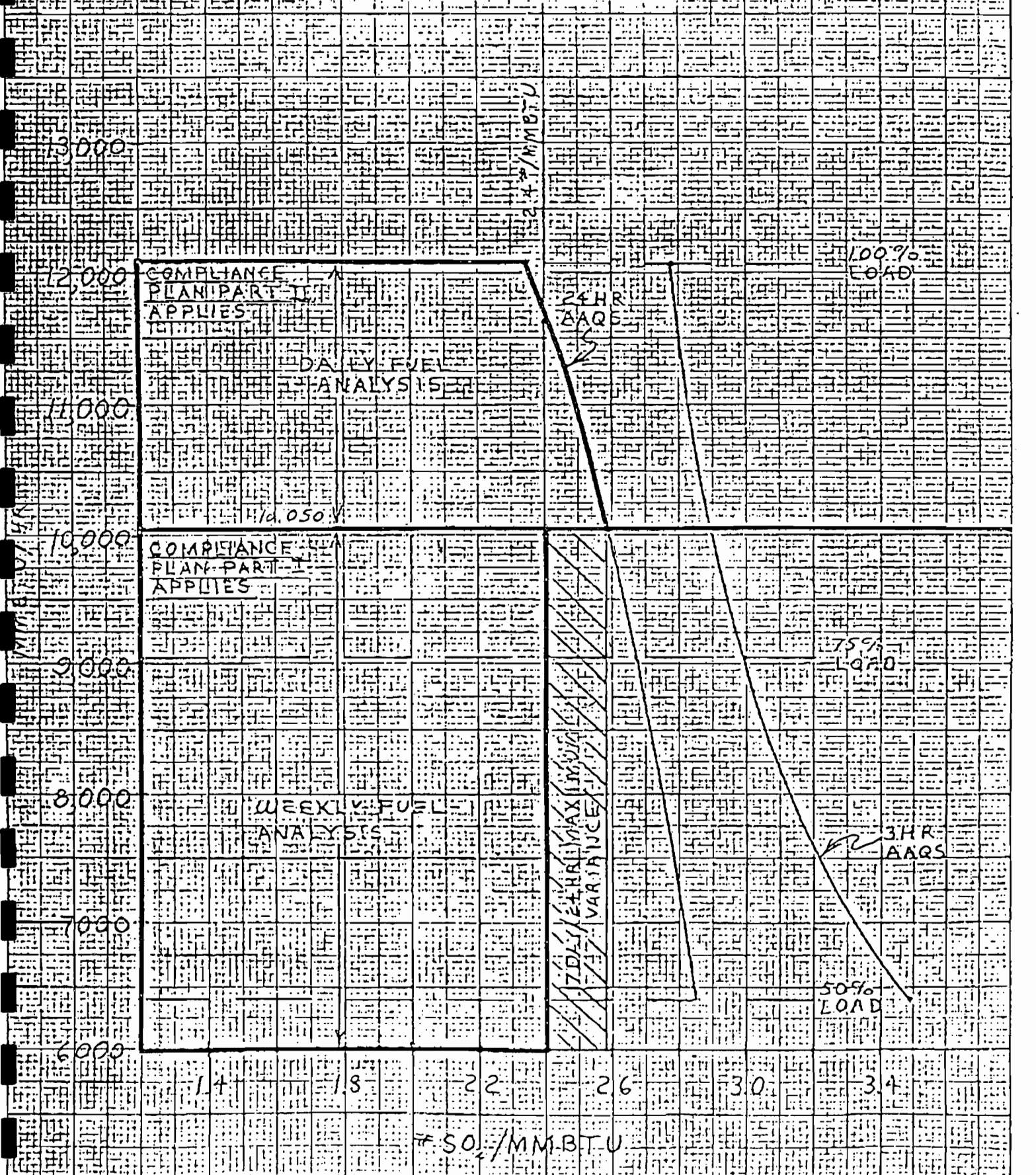


GANNON STATION

CHART 2

UNITS 1-6

COMPLIANCE PLAN FUEL ANALYSIS SCHEME



COMPLIANCE
PLAN PART II
APPLIES
DAILY FUEL
ANALYSIS

24HR
AQS

100%
LOAD

COMPLIANCE
PLAN PART I
APPLIES
WEEKLY FUEL
ANALYSIS

7 DAY
4 HR
MAXIMUM
VARIANCE

75%
LOAD

3HR
AQS

50%
LOAD

14 18 22 26 30 34

SO₂/MMBTU

V. COMPLIANCE PLAN VERIFICATION

A. Sulfur Variability

An examination of weekly composite fuel analysis results will allow a straightforward evaluation of overall fuel quality in terms of sulfur dioxide emission rate. To provide an extra level of confidence that sulfur variability after conversion has not changed significantly from that currently observed (Entropy, Inc. August 1980), in one week (7 concurrent days) per year, daily fuel samples will be collected, analyzed, and evaluated statistically.

B. Stack Sampling

At some period in each year when daily fuel samples are being collected, a stack test for sulfur dioxide will be conducted for the purpose of comparing those stack test results to fuel analysis results.

*C. Comparative Test Program

A six-month comparative test program will be conducted on one unit after conversion to compare results from coal sampling and analysis with continuous stack monitoring. Results of this program will be presented to the Department.

* Agreed upon and adopted at the Environmental Regulation Commission public hearing, Docket No. 8-25R, October 23, 1980.

VI. REPORTING

- A. Frequency - reporting of compliance status shall be performed on a quarterly calendar basis.
- B. Content - quarterly reports will consist of:
 - 1. Weekly average emission rate in lbs/MMBTU and tons/hour of sulfur dioxide.
 - 2. Daily emission rates and generation data for those periods necessary under Part II of the plan.
 - 3. Results of sulfur variability testing (Part V. A) and stack sampling (Part V. B) if performed during the calendar quarter.

VII. EPISODE REPORTING

Excess emissions shall be reported to Hillsborough County Environmental Protection Commission. Excess emissions shall be reported in a timely manner, upon completion of fuel analysis data and station loading data. Any episode of excess emissions will be reported as soon as possible by telephone with a written report on the episode to follow within 5 working days.

0570040-002-AV

5/10/07





Tampa Electric

Environmental Affairs

December 10, 2001



Main Points:

- Completely wet material process.
- Emissions are less than 25 tons for PM and 15 tons for PM₁₀ per year.
- This is an environmentally beneficial project.

Material Safety Data Sheet		Fly Ash Gannon Station
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1.0 General Information

Item Name: Fly Ash
 Company's Name: Tampa Electric Company - Gannon Station
 Company's Address: P.O. Box 111
 Company's City: Tampa
 Company's State: Florida
 Company's Zip Code: 33601
 Company's Emergency Phone Number: (813) 622-8281
 Company's Information Phone Number: (813) 228-4111
 Date of MSDS Preparation: November 6, 2000

Signature of Preparer:

2.0 Ingredients/Identity Information

Proprietary: No

Ingredients: Fly ash consists principally of minute glass-like particles composed of oxides of silica, iron, and aluminum with trace amounts of crystalline matter and varying amounts of unbound carbon.

Hazardous Component	OSHA PEL	ACGIH TLV	IDLH	CAS Number	%
Silica (SiO ₂) Quartz	133 mg/M ³	3 mg/M ³	3,000 mg/M ³	7631-86-9	30-45
Alumina (Al ₂ O ₃)	5 mg/M ³	10 mg/M ³	NE	1344-28-1	15-25
Ferric oxide (Fe ₂ O ₃)	10 mg/M ³	5 mg/M ³	2,500 mg/M ³	1309-37-1	10-25
Calcium oxide (CaO)	5 mg/M ³	2 mg/M ³	25 mg/M ³	1305-78-8	1-20
Potassium oxide (K ₂ O)	NP	NP	NE	NE	1-5
Aluminum (Al)	5 mg/M ³	10 mg/M ³	NE	7429-90-5	2-4
Antimony (Sb)	0.5 mg/M ³	0.5 mg/M ³	50 mg/M ³	7440-36-0	±0.00072
Arsenic (As)	0.01 mg/M ³	0.01 mg/M ³	NE	7440-38-2	±0.022
Barium (Ba)	NP	0.5 mg/M ³	NE	7440-39-3	±0.0305

Material Safety Data Sheet		Fly Ash Gannon Station
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Hazardous Component	OSHA PEL	ACGIH TLV	IDLH	CAS Number	%
Beryllium (Be)	0.002 mg/M ³	0.002 mg/M ³	4 mg/M ³	7440-41-7	±0.00065
Boron (B)	15* mg/M ³	10* mg/M ³	2000* mg/M ³	1303-86-2	±0.0615
Cadmium (Cd)	0.005 mg/M ³	0.002 mg/M ³	9 mg/M ³	7440-43-9	±0.000755
Chromium (Cr)	1 mg/M ³	0.5 mg/M ³	250 mg/M ³	7440-47-3	±0.014
Cobalt (Co)	0.1 mg/M ³	0.02 mg/M ³	20 mg/M ³	7440-48-4	±0.0023
Copper (Cu)	1 mg/M ³	1 mg/M ³	100 mg/M ³	7440-50-8	±0.0152
Iron (Fe)	10 mg/M ³	5 mg/M ³	2500 mg/M ³	1309-37-1	±4.5
Lead (Pb)	0.05 mg/M ³	0.05 mg/M ³	100 mg/M ³	7439-92-1	±0.03
Manganese (Mn)	5 mg/M ³	0.2 mg/M ³	500 mg/M ³	7439-96-5	±0.04
Mercury (Hg)	0.1 mg/M ³	0.01 mg/M ³	10 mg/M ³	7439-97-6	±0.0000465
Molybdenum (Mo)	15 mg/M ³	10 mg/M ³	5000 mg/M ³	7439-98-7	±0.003
Nickel (Ni)	1 mg/M ³	1.5 mg/M ³	10 mg/M ³	7440-02-0	±0.01025
Selenium (Se)	0.2 mg/M ³	0.2 mg/M ³	1 mg/M ³	7782-49-2	±0.001185
Silver (Ag)	0.01 mg/M ³	0.1 mg/M ³	10 mg/M ³	7440-22-4	<0.00042
Strontium (Sr)	NP	0.0005** mg/M ³	NE	7789-06-2	±0.0685
Thallium (Tl)	0.1 mg/M ³	0.1 mg/M ³	15 mg/M ³	7440-28-0	±0.000235
Vanadium (V)	0.1† mg/M ³	0.05† mg/M ³	35 † mg/M ³	1314-62-1	±0.015
Zinc (Zn)	5‡ mg/M ³	5‡ mg/M ³	500‡ mg/M ³	1314-13-2	±0.06
Sodium oxide (Na ₂ O)	NP	NP	NE	NE	1-5
Magnetite (Fe, Mg) (Fe,Al) ₂ O ₄	15 mg/M ³	10 mg/M ³	NE	NE	5-25
Hematite (Fe ₂ O ₃)	10 mg/M ³	5 mg/M ³	NE	NE	<5
Periclase (MgO)	15 mg/M ³	10 mg/M ³	NE	NE	<3
Anhydrite (CaSO ₄)	5 mg/M ³	2 mg/M ³	NE	NE	4-8
Mullite (Al ₂ Si ₂ O ₇)	15 mg/M ³	10 mg/M ³	NE	NE	<5
Nuisance Dust (Total)	15 mg/M ³	10 mg/M ³	NP-Not Published		40-80

Material Safety Data Sheet		Fly Ash Gannon Station
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Hazardous Component	OSHA PEL	ACGIH TLV	IDLH	CAS Number	%
Nuisance Dust-Respirable	5 mg/M ³	5 mg/M ³		NE-Not Established	

- * Published as Boron Oxide
- ** Published as Strontium Chromate
- † Published as Vanadium Pentoxide (dust or fume)
- ‡ Published as Zinc Oxide (dust or fume)

3.0 Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity	2.4-2.5 g/cc
Vapor Pressure (mm Hg)	N/A	Melting Point	>2,300 °F
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl acetate = 1)	N/A

N/A Not Applicable

Solubility in Water:

Insoluble

Appearance and Odor:

Gray-black, fine solid particles, no odor.

4.0 Fire and Explosion Data

Flash Point	N/A	Flammable Limits	N/A
Lower Explosive Limit (LEL)	N/A	Upper Explosive Limit (UEL)	N/A

Extinguishing Media:

(Use media suitable for surrounding fire.)

Special Fire-fighting Procedures:

Wear NIOSH/MSHA approved SCBA and full protective equipment.

Unusual Fire & Explosion Hazards:

Material is non-flammable, non-explosive, and does not support combustion.

Material Safety Data Sheet		Fly Ash Gannon Station
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5.0 Reactivity Data

Stability:	Stable	Stable under anticipated storage conditions. Avoid contact with acid.	
Hazardous Polymerization	Will not occur	Conditions to avoid:	N/A

Incompatibility: Strong acids, particularly hydrofluoric acid.

This Material Hazardous Decomposition or Byproducts with silicon tetrafluoride gas.

6.0 Health Hazard Data

Route(s) of Entry:	Inhalation - Yes	Skin - No	Ingestion - Yes
Carcinogenicity:	Silica, Hematite - Yes	IARC Monographs - 2A	OSHA Regulated - No

Parameter	Material Composition (mg/kg)	Direct Contact/Industrial Exposure Limits* (mg/kg) (40 hrs/week; 50 wt wk/yr; 25 yr)
Aluminum	20,000 - 40,000	--
Antimony	5.3 - 9.1	240
Arsenic	180 - 260	3.7
Barium	140 - 470	87,000
Beryllium	5.3 - 7.7	800
Boron	470 - 760	160,000
Cadmium	5.6 - 9.5	1,300
Chromium	130 - 150	420
Cobalt	19 - 27	110,000

Material Safety Data Sheet		Fly Ash Gannon Station
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Parameter	Material Composition (mg/kg)	Direct Contact Industrial Exposure Limits* (mg/kg) (40 hrs/week; 50 week/yr; 25 yr)
Copper	54 - 250	76,000
Iron	8,000 - 52,000	480,000
Lead	220 - 380	920
Manganese	170 - 230	22,000
Mercury	0.35 - 0.58	26
Molybdenum	16 - 44	9,700
Nickel	65 - 140	28,000
Selenium	8.7 - 15	10,000
Silver	<2.0 - 4.2	9,100
Strontium	270 - 1,100	--
Thallium	1.9 - 2.8	--
Vanadium	120 - 180	7,400
Zinc	200 - 1,000	560,000

*Chapter 62-777, Florida Administrative Code.

Health Hazards (Acute and Chronic):

A moderate risk, from inhalation of particulates. Pneumoconiosis is a possible health hazard from excessive inhalation. The International Agency for Research on Cancer (IARC) classes this substance in Group 2A, which IARC defines as "probably carcinogenic to humans". According to IARC, there is sufficient evidence for the carcinogenicity of crystalline silica to experimental animals and limited evidence for the carcinogenicity of crystalline silica to humans. On the basis of sufficient evidence of carcinogenicity in experimental animals, NTP (National Toxicology Program) places this substance in the group "which may reasonably be anticipated to be carcinogens".

Signs and Symptoms of Exposure:

The material can be drying and irritating to mucous membranes.

Medical Conditions Generally Aggravated by Exposure:

Pre-existing health conditions, particularly respiratory, may be aggravated by prolonged exposure.

Emergency and First Aid Procedures:

Eyes: Flush with water for at least 15 minutes.

Skin: Flush with water for at least 15 minutes and wash with soap.

Inhalation: Remove person to fresh air.

Ingestion: Rinse mouth with water.

Material Safety
Data Sheet



Fly Ash
Gannon Station

7.0 Precautions for Safe Handling and Use

Do not induce vomiting. Get medical attention.

Steps to Be Taken in Case Material is Released or Spilled:

Use eye/respiratory protection. No special procedures required for cleanup. Wet sweep into an appropriate container will help reduce airborne dust.

Waste Disposal Method:

Disposal should follow all environmental regulations. Uncontaminated product does not exceed Toxicity Characteristic Leaching Procedure (TCLP) limits and may be disposed of as an inert material in an appropriate solid waste landfill according to applicable federal, state, and local regulations. Exempt from regulations under RCRA subtitle C.

Precautions to Be Taken in Handling and Storing:

Avoid creating unnecessary airborne dust when handling. Wetting with water will reduce airborne dust. Wash areas of dermal contact with soap and water.

8.0 Control Measures

Other Precautions:

Store away from strong acids in a dry, well ventilated area. Releases of ammonia vapor may occur when ash is wet.

Respiratory Protection:

Respiratory protection is not required below the PEL. A dust mask or half-mask air-purifying respirator with HEPA cartridge is recommended for exposures between 5 and 50 mg/M³. Between 50 and 500 mg/M³, a full-face air-purifying respirator with HEPA cartridge is recommended. Exposures above 500 mg/M³ require use of supplied air.

Ventilation:

Use local exhaust where feasible. Use mechanical ventilation as required to maintain employee exposure below the PEL/TLV.

Personal Protective Equipment:

Use cotton work gloves with dry material. Use acid-resistant if material is wet. Protective goggles or side-shield safety glasses. Wearing of contact lenses is not recommended. Coveralls or other protective clothing may be necessary in high concentrations of dust. Wash areas of dermal contact with soap and water.

Work/Hygiene Practices:

Wash hands/face prior to eating, drinking, using tobacco products, or applying cosmetics.

Material Safety Data Sheet		Fly Ash Gannon Station
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9.0**U.S. DOT Classification**

Material is not regulated by U.S. DOT as a hazardous material.

Use good housekeeping practices to prevent accumulation of dust and follow cleaning techniques that will keep airborne particulates to a minimum. Avoid inhalation of dust.

This MSDS was prepared using the analytical data collected in 1996 and compositing the three different results that included:

- 100% coal blend with no flue gas conditioning
- 80% coal and 20% scrape pile blend with no flue gas conditioning
- 100% coal blend with sulfur trioxide injection

Total metal analysis are pending.

Sheplak, Scott

From: Alice Harman [Harman@epchc.org]
Sent: Thursday, October 25, 2001 4:59 PM
To: Sheplak, Scott
Cc: Diana Lee
Subject: TECO - Gannon

TECO Gannon
Byproduct Incomple... Here is our letter for your review....

Thanks for keeping us in the loop.

Sincerely,
Alice H. Harman

October 25, 2001

Scott Sheplak. P.E.
Florida Department of Environmental Protection
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, FL 32399

RE: F.J. Gannon Station Byproduct Beneficiation and Re-use
Reference Permit No. 0570040-014-AV
DEP File No. 0570040-016-AC

Dear Mr. Sheplak:

The staff of the Environmental Protection Commission of Hillsborough County (EPC) has completed the review of the above referenced TECO Gannon Facility project. On October 2, 2001 the EPC received TECO's permit application to combust the byproduct materials such as the flyash and the coal slag that is generated at the Gannon Station. Potential fugitive PM and PM10 emissions were calculated for the material handling, however, information was not provided about the combustion process. After reviewing this application, the following are EPC staff's concerns that relate to this project:

1. In accordance with Permit No. 0570040-014-AV, TECO is only allowed to use coal as its primary fuel. However, Specific Condition G.6. and H.6. state that "All fly ash will be directed to the silo, no re-injection of fly ash to the boiler system will occur during the tests." In order to better evaluate the overall environmental effects from the combustion of these materials, TECO should provide the following information:

- A) Based on current operations, what percentage of the fly ash is re-injected into the boiler system(s) on an hourly and annual basis? What is the estimated percentage of byproduct to be burned on an hourly basis?
- B) Characterization/Composite analysis of the flyash and the coal slag that will be introduced into their furnaces.
- C) What are the potential emissions increase that will result from this combustion process for pollutants listed in the Rule 62-212, Table 212.400-2?

2. The following questions relate to the material handling operations:

- A) The PM/PM10 emissions calculations were based on AP-42 Chapter 13.2. EPC staff noted that the silt content and moisture content were not in the range of the allowable source conditions for the equation(s). As such, the quality rating should be lowered at least one quality rating and the emissions estimates should be adjusted accordingly (Reference "Using the AP-42 Data Base for Making Exclusionary Rule Applicability Determinations" by Eric Noble 3/2/95).
- B) In the emissions calculations, TECO used a control efficiency of 99% for water spray. As noted in AP-42 Appendix B-2, the maximum control efficiency for dust suppression by water sprays for particle sizes 6-10 μ m is 90%. In addition, the US Department of Energy, "Technical Guide to Estimating Fugitive Dust Impacts from Coal Handling Operations", Table 4-3 list a maximum control efficiency of 90% for micron droplet water spray systems. The EPC staff believes that it is more appropriate to use the 90% control efficiency listed in AP-42 and the DOE document, since the equation used to estimate emission is from AP-42. In addition, the 99% control efficiency used in the application is not appropriate. Its use would imply that the control efficiency of a water spray system is equivalent to that of a high efficiency wet scrubber (Reference AP-42 Appendix B-2). If the emissions are adjusted using the 90% control efficiency, then PM emissions from the project would exceed 200 tpy and PM10 emissions would exceed of 100 tpy, and the project would be subject to PSD.
- C) Per the process description on page 1-2, it states that a "front in loader will place the screened material on the portable conveyor". After screening if the material is placed on a "new" pile prior to conveyor, then this transfer point needs to be included in Table 1 and 2 for emissions estimates.

Scott Sheplak, FDEP

Page 3

- D) In the application, TECO states that the material will be sufficiency wet. What measures will be employed by TECO to keep the material wet during handling and storage? Is the 5% moisture content used in the emission estimate before or after the application of water? If the 5% moisture content is after the application of water, then the 90% control efficiency estimate used in the application is not appropriate since it is double counting the water spray controls.
- E) As listed on page 1-3, TECO states that emissions from the slag loading/unloading operations were negligible. Similar to the flyash handling, EPC believes that there are emissions associated with the slag handling. What are the emissions estimates and assumptions taken for the slag handling?

3. How does TECO plan to demonstrate compliance with Rules 62-212.300(1) and 62-212.400(1), F.A.C.?

EPC staff will like to thank you for your consideration of our questions on this project. If you have any questions please feel free to contact Diana M. Lee, P.E. at (813)272-5530.

Sincerely,

Alice H. Harman, P.E.
Chief, Air Permitting Section

dml

Fuel Handling and Storage Sources (FH)

Description	Source ID	Figure No.
Barge to East Clamshell (Spillage) *	FH-001	II.D.2.3.
Barge to West Clamshell (Spillage) *	FH-002	II.D.2.3.
Barge to Continuous Unloader (Spillage) *	FH-003	II.D.2.3.
East Clamshell to East Hopper *	FH-004	II.D.2.3.
West Clamshell to West Hopper *	FH-005	II.D.2.3.
Continuous Unloader to Conveyor A *	FH-006	II.D.2.3.
Conveyor A to Continuous Feeder *	FH-007	II.D.2.3.
East Hopper to Conveyor B *	FH-008	II.D.2.3.
West Hopper to Conveyor B *	FH-009	II.D.2.3.
Conveyor B to Conveyor C *	FH-011	II.D.2.3.
Conveyor C to Conveyor D1/D2 (Flux to Flux Storage Pile)	FH-012	II.D.2.3.
Railcar to Hopper *	FH-013	II.D.2.3.
Hopper to Conveyor L *	FH-014	II.D.2.3.
Conveyor L to Conveyor D1/D2 (Flux to Flux Storage Pile)	FH-015	II.D.2.3.
Conveyor D1 to Conveyor M1	FH-016	II.D.2.3.
Conveyor D2 to Conveyor M2	FH-017	II.D.2.3.
Conveyor M1 to Conveyor E1	FH-018	II.D.2.3.
Conveyor M2 to Conveyor E2	FH-019	II.D.2.3.
Conveyor E1 to Storage Pile	FH-020	II.D.2.3.
Conveyor E2 to Storage Pile	FH-021	II.D.2.3.
North Storage Pile	FH-022	II.D.2.3.
East Portion of South Storage Pile	FH-023a	II.D.2.3.
West Portion of South Storage Pile	FH-023b	II.D.2.3.
Underground Reclaim System to Conveyor F1	FH-024	II.D.2.3.
Underground Reclaim System to Conveyor F4	FH-025	II.D.2.3.
Underground Reclaim System to Conveyor F3	FH-026	II.D.2.3.
Underground Reclaim System to Conveyor F2	FH-027	II.D.2.3.
Conveyor F1 to Conveyor G1/G2	FH-028	II.D.2.3.
Conveyor F4 to Conveyor G1/G2	FH-029	II.D.2.3.
Conveyor F3 to Conveyor G1/G2	FH-030	II.D.2.3.
Conveyor F2 to Conveyor G1/G2	FH-031	II.D.2.3.
Conveyor G1 to Hammermill Crusher 1 *	FH-032	II.D.2.3.
Conveyor G2 to Hammermill Crusher 2 *	FH-033	II.D.2.3.
Hammermill Crusher 1 to Conveyor H1 *	FH-034	II.D.2.3.
Hammermill Crusher 2 to Conveyor H2 *	FH-035	II.D.2.3.
Conveyors H1/H2 to Conveyors J1/J2, Conveyors J1/J2 to Bunker 1 *	FH-036	II.D.2.3.
Conveyors J1/J2 to Bunker 2 *	FH-037	II.D.2.3.
Conveyors J1/J2 to Bunker 3 *	FH-038	II.D.2.3.
Conveyors J1/J2 to Bunker 4 *	FH-039	II.D.2.3.
Conveyors J1/J2 to Bunker 5 *	FH-040	II.D.2.3.
Conveyors J1/J2 to Bunker 6 *	FH-041	II.D.2.3.
Conveyor D1 to Conveyor G1/G2 (By-Pass Storage) *	FH-042	II.D.2.3.
Conveyor D2 to Conveyor G1/G2 (By-Pass Storage) *	FH-043	II.D.2.3.
Storage Pile Maintenance	FH-044	II.D.2.3.

* THIS EQUIPMENT MAY ALSO BE USED TO TRANSFER FLUX.

Other Material Handling and Storage Sources (OMH)

Description	Source ID	Figure No.
Truck Dump to Flux Storage Pile	<i>del</i> OMH-001	II.D.2.1.
Conveyor S To Conveyor D1/D2	OMH-004	II.D.2.1.
Flux Storage Pile Maintenance	OMH-002	II.D.2.1.
Flux Storage Pile	OMH-003	II.D.2.1.
Underground Reclaim System To Conveyors	OMH-005	II.D.2.1.

Combustion Sources (CS)

Description	Source ID	Figure No.
Unit No. 1	CS-001	II.D.2.4.
Unit No. 2	CS-002	II.D.2.4.
Unit No. 3	CS-003	II.D.2.4.
Unit No. 4	CS-004a,b	II.D.2.4.
Unit No. 5	CS-005	II.D.2.4.
Unit No. 6	CS-006	II.D.2.4.
Combustion Turbine No. 1	CS-007	II.D.2.4.

Fly Ash Handling Sources (FA)

Description	Source ID	Figure No.
Units 1-4 Silo	<i>del</i> FA-001	II.D.2.5.
Units 1-4 Silo to Tanker Truck	FA-002	II.D.2.5.
Units 5 and 6 Silo	<i>del</i> FA-003	II.D.2.5.
Units 5 and 6 Silo to Tanker Truck	FA-004	II.D.2.5.
Units 5 and 6 Silo Pugmill	FA-005	II.D.2.5.
Unit 4 Economizer Ash Silo	<i>del</i> FA-006	II.D.2.5.
Unit 4 Economizer Ash Silo to Tanker Truck	FA-007	II.D.2.5.

FIGURE II.D.2.1

F.J. GANNON STATION EMISSION SOURCE IDENTIFICATION KEY SHEET

Source: TEC: ECT, 1996.

ECT
Environmental Consulting & Technology, Inc.

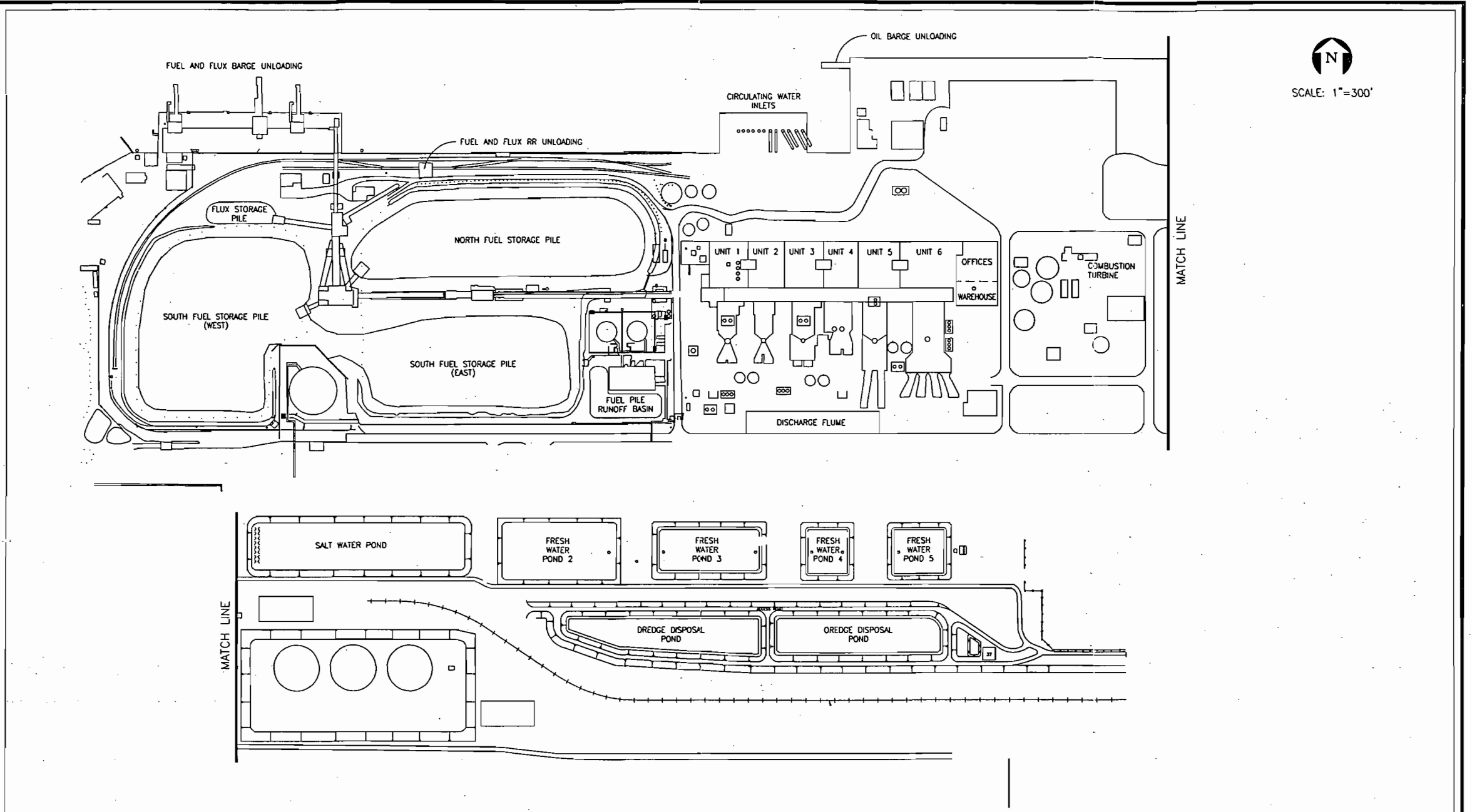


FIGURE I.D.2.2.
 F.J. GANNON STATION
 OVERALL FACILITY PLOT PLAN
 Source: TEC; ECT, 1996.





SCALE: 1"=200'

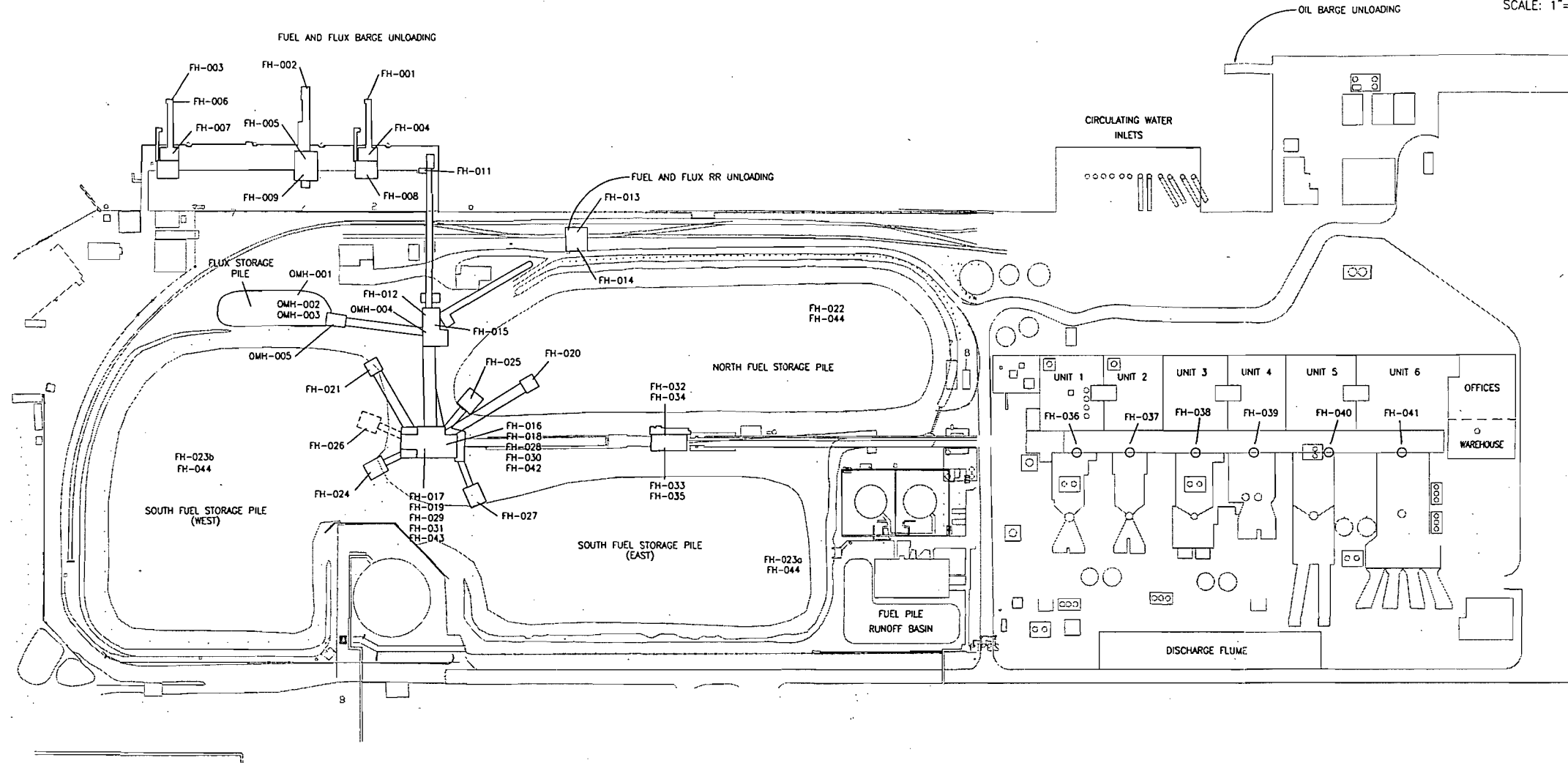


FIGURE I.D.2.3.
F.J. GANNON STATION
FUEL AND OTHER MATERIAL HANDLING AND STORAGE EMISSION SOURCES
 Source: TEC; ECT, 1996.





SCALE: 1"=250'

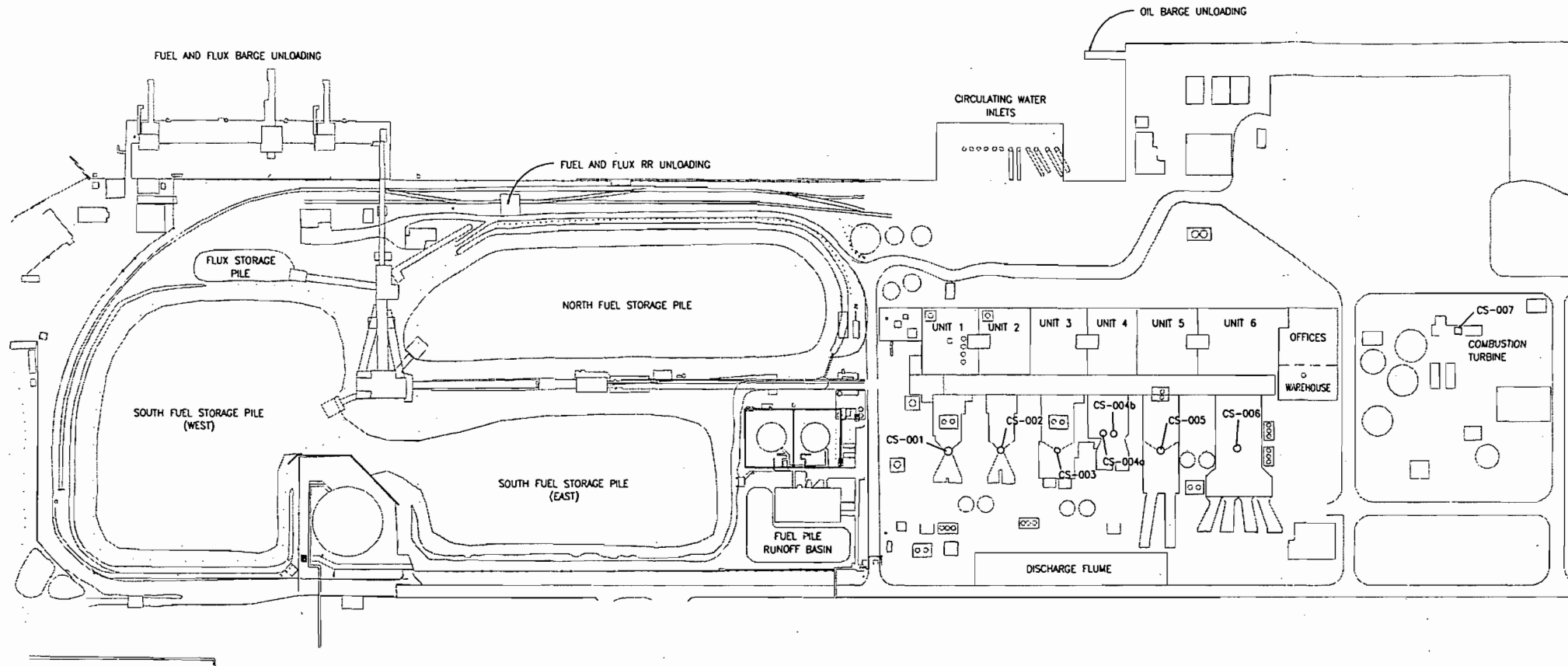


FIGURE I.I.D.2.4.

F.J. GANNON STATION
COMBUSTION EMISSION SOURCES

Source: TEC; ECT, 1996.





SCALE: 1"=250'

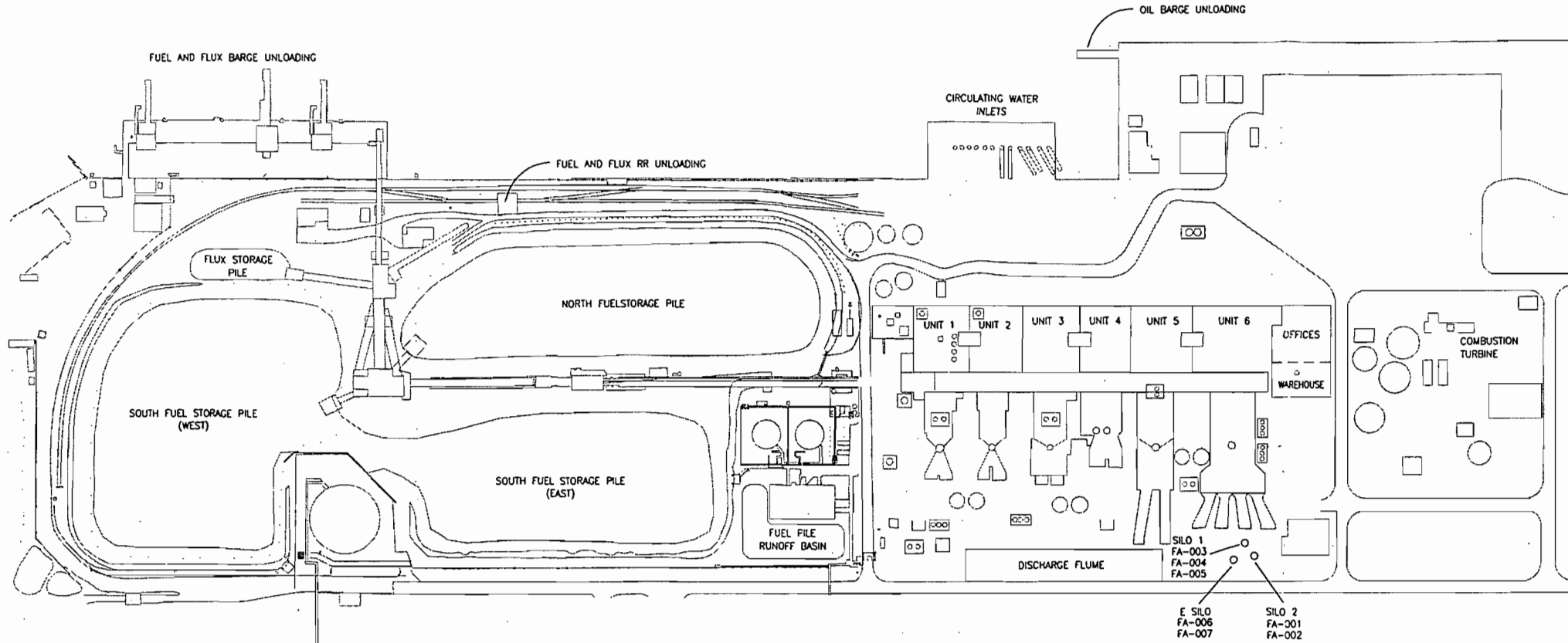





FIGURE II.D.2.5.

F.J. GANNON STATION
FLY ASH HANDLING AND STORAGE EMISSION SOURCES

Source: TEC; ECT, 1996.



LEGEND

-  EMISSIONS POINT
-  ENCLOSURE
-  MOVING CONVEYOR BELT

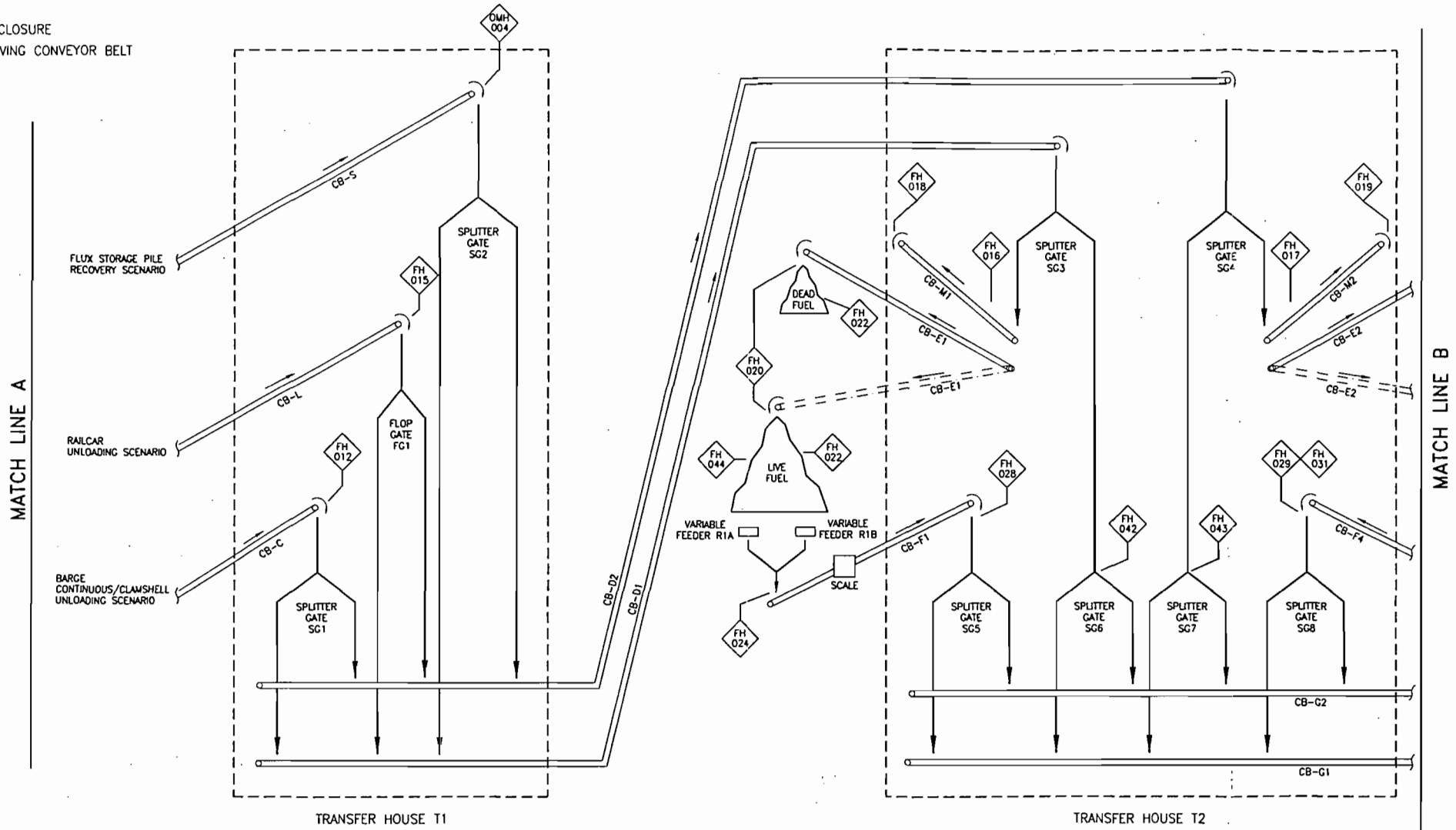





FIGURE II.D.3.3.
 F.J. GANNON STATION
 FUEL AND FLUX HANDLING AND STORAGE PROCESS FLOW DIAGRAM
 Source: ECT, 1996.



LEGEND

-  EMISSION POINT
-  ENCLOSURE
-  MOVING CONVEYOR BELT

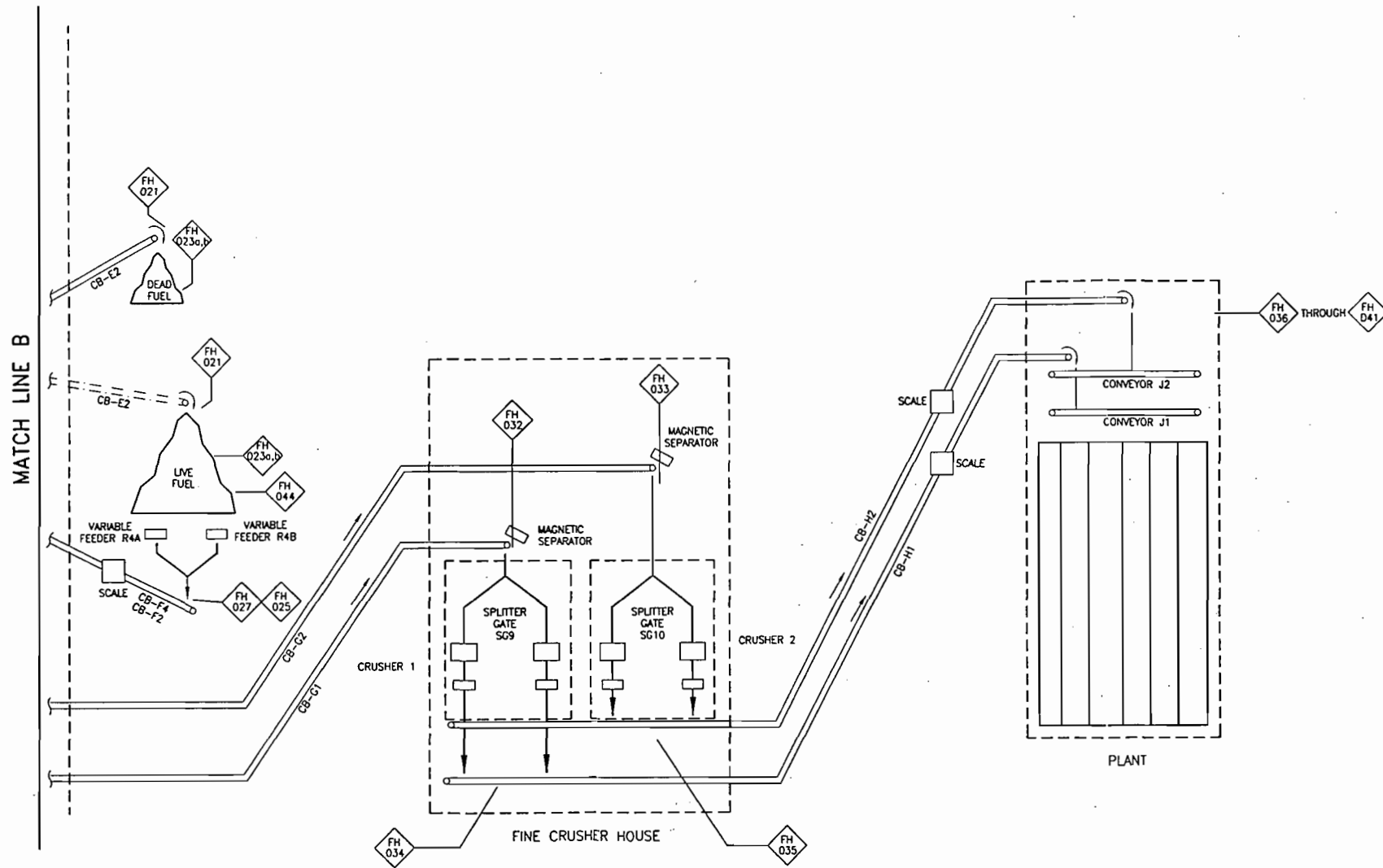


FIGURE I.D.3.4.

F.J. GANNON STATION

FUEL AND FLUX HANDLING AND STORAGE PROCESS FLOW DIAGRAM

Source: ECT, 1996.

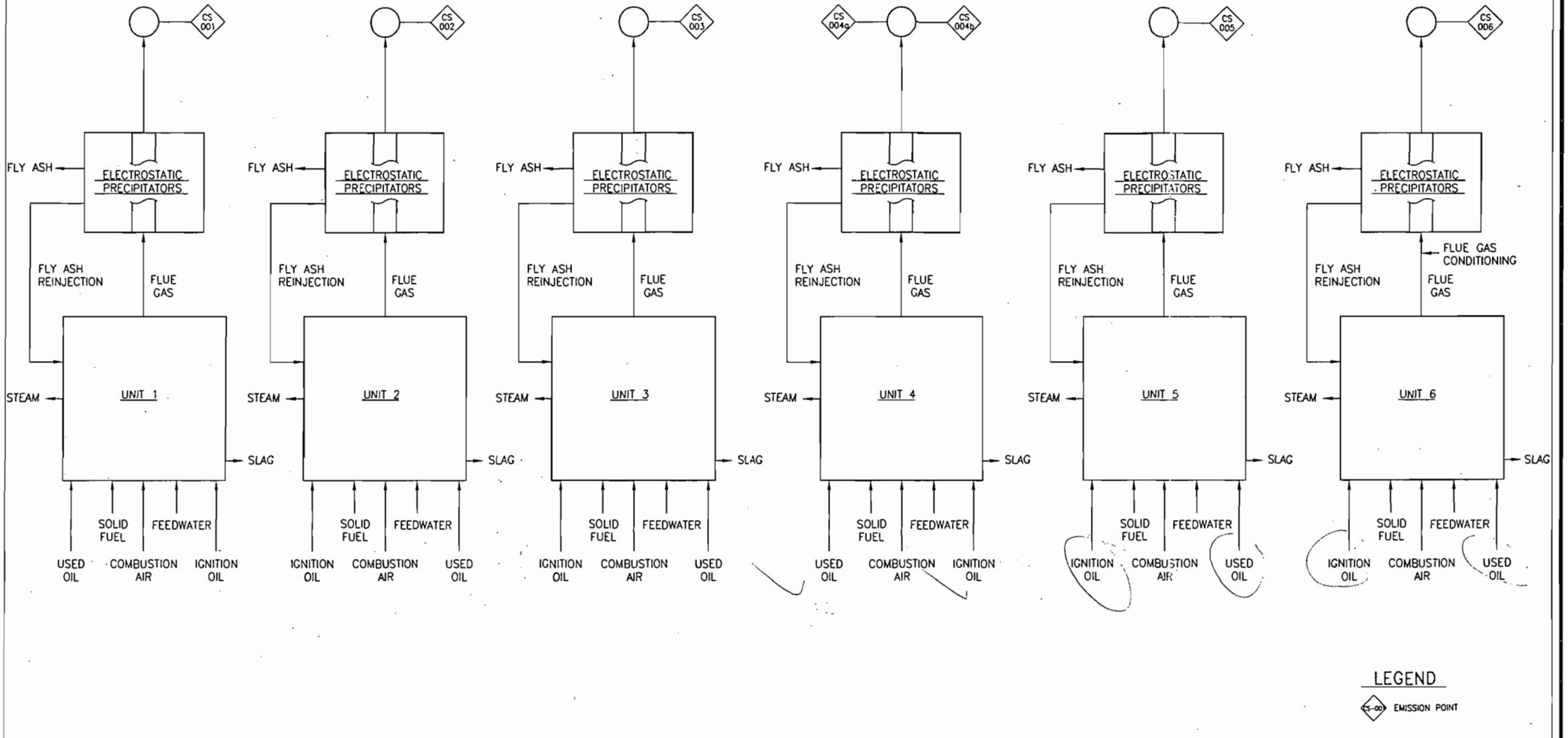
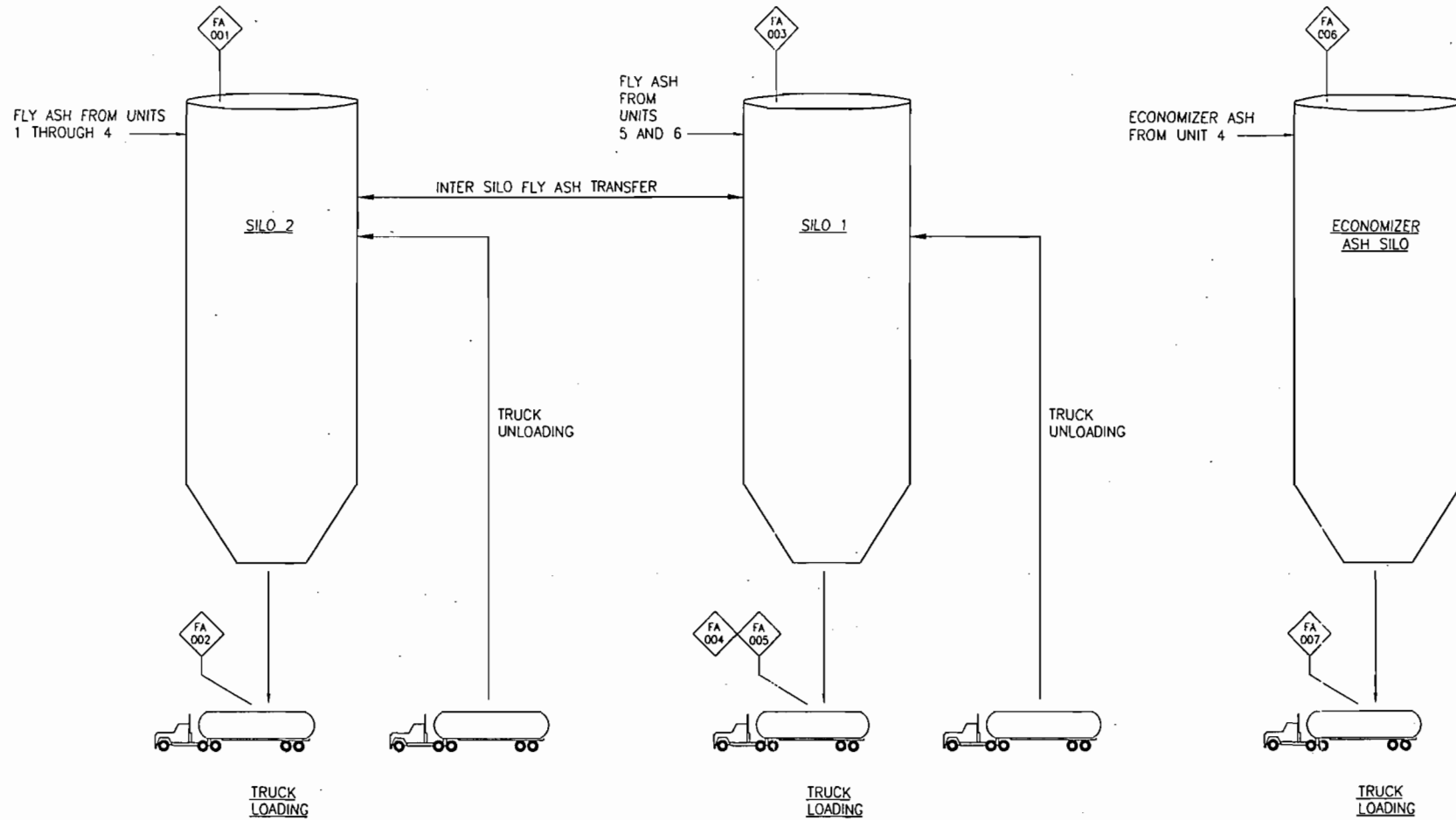


FIGURE II.D.3.6.
 F.J. GANNON STATION
 BOILER PROCESS FLOW DIAGRAM
 Source: ECT, 1996.





LEGEND

FA 002 EMISSION POINT

FIGURE I.D.3.8.

F.J. GANNON STATION

FLY ASH HANDLING AND STORAGE PROCESS FLOW DIAGRAM

Source: ECT, 1996.



Tampa Electric Company
F.J Gannon Station - 0570040
Title V Permit Application
Appendix A - Regulatory
Applicability Analysis

U.S.
yk8
10/10/07

ENC