



TAMPA
ELECTRIC

A TECO ENERGY COMPANY

Tampa, Florida

BIG BEND STATION

**TITLE V OPERATION
PERMIT APPLICATION**

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0570039-002-AV

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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Facility Supplemental Information	
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Fugitive Emissions Identification	D_IID5.WP6
List of Proposed Exempt Activities	D_IID7.WP6
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Alternate Methods of Operation	D_IID9.WP6
Enhanced Monitoring Plan (Pending Promulgation of Final Regulation)	D_IID11.WP6
Risk Management Plan (Pending Promulgation of Final Regulation)	D_IID12.WP6
Emission Unit Supplemental Information	
Detailed Description of Control Equipment	D_III3.WP6
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INTRODUCTION

The Tampa Electric Company (TEC) Big Bend Station located in Tampa, Hillsborough County, Florida is a nominal 2,028 megawatt (MW) electric generation facility. The Big Bend Station consists of four steam boilers (Unit Nos. 1 through 4), four steam turbines, three simple-cycle combustion turbines (CT Nos. 1, 2, and 3), a once-through cooling water system, solid fuels, fly ash, limestone, gypsum, slag, and bottom ash storage and handling facilities, fuel oil storage tanks, and ancillary support equipment. Unit Nos. 1, 2, 3 and 4 have nominal maximum heat inputs of 4,037, 3,996, 4,115, and 4,330 million British thermal units per hour (MMBtu/hr), respectively. CT No. 1 has a nominal maximum heat input of 173 MMBtu/hr. CT Nos. 2 and 3 each have a nominal maximum heat input of 950 MMBtu/hr. Units Nos. 1 through 4 are all fired with solid fuel (coal and petroleum coke/coal fuel blend) with No. 2 fuel oil used for ignition during startups. The combustion turbines are all fired with No. 2 distillate fuel oil.


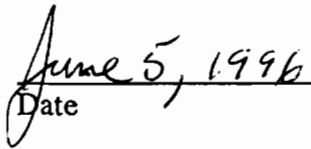
Current Florida Department of Environmental Protection (FDEP) Operation Permits for the Big Bend Station are summarized in the following table:

Emission Unit	Permit No.	Issuance Date	Expiration Date
Unit No. 1	AO29-219924	12/23/92	12/01/97
Unit No. 2	AO29-179912	11/19/90	11/21/95
Unit No. 3	AO29-279911	08/30/90	08/30/95
Unit No. 4	PA 79-12	08/17/81	N/A
Unit No. 4	PSD-FL-040	10/15/81	N/A
CT No. 1	AO29-160257	07/24/89	07/07/94
CT No. 2	AO29-174596	03/15/90	03/09/95
CT No. 3	AO29-174611	05/09/90	04/27/95
Fly Ash Silo No. 1	AO29-160255	12/21/89	12/22/94
Fly Ash Silo No. 2	AO29-161082	07/24/89	07/07/94
Coal Bunker Rotoclones	AO29-163788	10/06/89	06/30/94

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 Big Bend 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 Big Bend 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 Big Bend 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: Stanley J. Martin General Manager, Big Bend Station			
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Tampa Electric Company Street Address: P.O. Box 111 City: Tampa State: FL Zip Code: 33601-0111			
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (813) 228-4111 Fax: (813) 228-1864			
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	

* 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:*

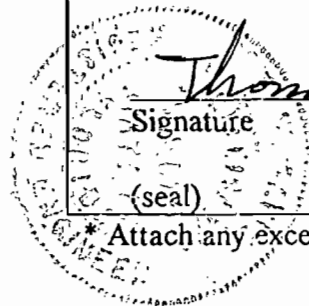
(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions 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 [X] 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.



Signature

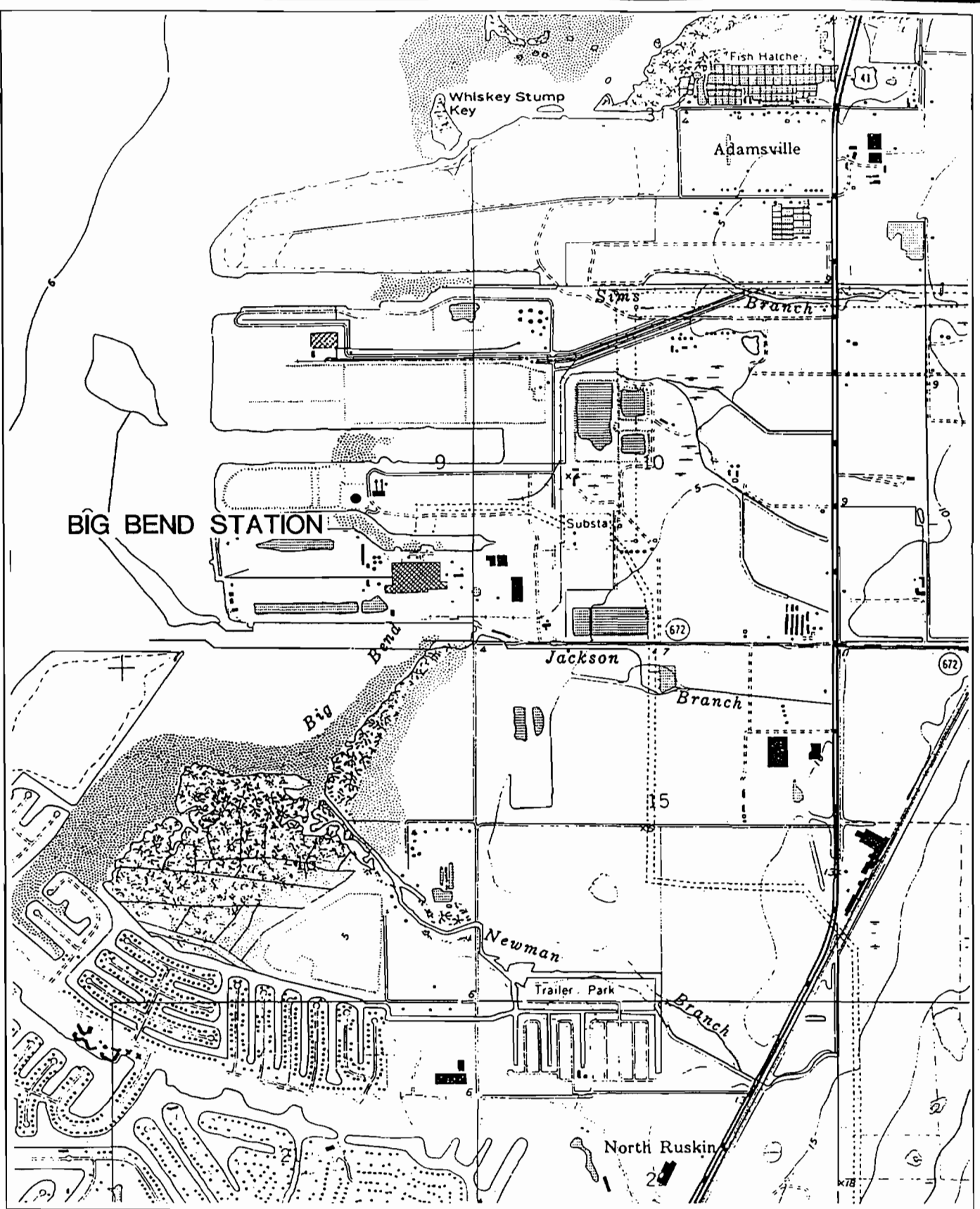
Date

6/4/96

* Attach any exception to certification statement.

DOCUMENT II.D.1

AREA MAP SHOWING FACILITY LOCATION



DOCUMENT I.D.1.
BIG BEND STATION AREA MAP

Source: USGS Quod, Gibsonton, FL, 1987

ECT

Environmental Consulting & Technology, Inc.

II.D.2

FACILITY PLOT PLANS

Fuel Handling and Storage Sources (FH)

Description	Source ID	Figure No.	
		Location	Process
Barge Clamshell to Conveyor D1	FH-001	II.D.2.E	II.D.3.A
Barge Bucket Elevator to Conveyor A1	FH-002	II.D.2.E	II.D.3.A
Conveyor A1 to Conveyor B1	FH-003	II.D.2.E	II.D.3.A
Conveyor B1 to Conveyor D1	FH-004	II.D.2.E	II.D.3.A
Self-Unloading Barge to Conveyor D1	FH-005	II.D.2.E	II.D.3.A
Conveyor D1 to Conveyor E1	FH-006	II.D.2.E	II.D.3.A
Conveyor E1 to Conveyor Y or Conveyor F1	FH-007	II.D.2.E	II.D.3.A
Conveyor Y to Conveyor Z	FH-008a	II.D.2.E	II.D.3.A
Conveyor Z to West Emergency Pile	FH-008b	II.D.2.E	II.D.3.A,B
Dozer Operations on West Emergency Storage Pile	FH-009	II.D.2.E	II.D.3.A,B
West Emergency Storage Pile	FH-010	II.D.2.E	II.D.3.A,B
Dozer Reclaim from West Emergency Pile to Portable Conveyor	FH-011a	II.D.2.E	II.D.3.A
Portable Conveyor to Conveyor F1	FH-011b	II.D.2.E	II.D.3.A
Conveyor Z to Conveyor P	FH-012	II.D.2.E	II.D.3.C
Conveyor P to Intermediate Conveyor	FH-013	II.D.2.E	II.D.3.C
Intermediate Conveyor to North Stacker Conveyor (G2)	FH-014	II.D.2.E	II.D.3.C
North Stacker Conveyor (G2) to North/Center Storage Pile	FH-015	II.D.2.E	II.D.3.C
Mobile Reclaimer to North Stacker Conveyor (G2)	FH-016	II.D.2.E	II.D.3.C
North Stacker Conveyor (G2) to Conveyor P	FH-017	II.D.2.E	II.D.3.C
Dozer Operations on North Storage Pile	FH-018	II.D.2.E	II.D.3.C
North Storage Pile	FH-019	II.D.2.E	II.D.3.C
Dozer Operations on Middle (Common) Storage Pile	FH-020	II.D.2.E	II.D.3.C,D
Fuel Storage - Middle (Common) Storage Pile	FH-021	II.D.2.E	II.D.3.C
Conveyor F1 to South Stacker Conveyor (G1)	FH-022	II.D.2.E	II.D.3.D
South Stacker Conveyor (G1) to South/Center Storage Pile	FH-023	II.D.2.E	II.D.3.D
South Reclaimer to South Reclaimer Conveyor (G1)	FH-024	II.D.2.E	II.D.3.D
South Reclaimer Conveyor (G1) to Conveyor F1	FH-025	II.D.2.E	II.D.3.D
Dozer Operations on South Storage Pile	FH-026	II.D.2.E	II.D.3.D
South Storage Pile	FH-027	II.D.2.E	II.D.3.D
Conveyor P to Conveyor J2	FH-028	II.D.2.E	II.D.3.C
Conveyor J2 to Conveyor Q2	FH-029	II.D.2.E	II.D.3.E
Conveyor F1 to Conveyor J1	FH-030	II.D.2.E	II.D.3.D
Conveyor J1 to Conveyor Q1	FH-031	II.D.2.E	II.D.3.E
Conveyors Q1 and Q2 to Blending Bins	FH-032 thru CH-035	II.D.2.E	II.D.3.E
Blending Bins to Conveyors T1, T2	FH-036 thru CH-047	II.D.2.E	II.D.3.E
Conveyor T1 to Crusher #1	FH-048	II.D.2.E	II.D.3.F
Conveyor T2 to Crusher #2	FH-049	II.D.2.E	II.D.3.F
Crusher to Conveyor W1	FH-050	II.D.2.E	II.D.3.F
Crusher to Conveyor W2	FH-051	II.D.2.E	II.D.3.F
Conveyor U to East Emergency Storage Pile	FH-052	II.D.2.E	II.D.3.F
Dozer Operations on East Emergency Storage Pile	FH-053	II.D.2.E	II.D.3.F
East Emergency Storage Pile	FH-054	II.D.2.E	II.D.3.F
Conveyor W1 to Conveyor L1	FH-055	II.D.2.E	II.D.3.F
Conveyor W2 to Conveyor L2	FH-056	II.D.2.E	II.D.3.F
Dozer Reclaim from East Emergency Pile to "K" Feeders	FH-057	II.D.2.E	II.D.3.F
"K" Feeders to Conveyors L1 or L2	FH-058	II.D.2.E	II.D.3.F
Conveyors L1 and L2 to Conveyors M1 and M2, and Conveyors M1 and M2 to Coal Bunkers	FH-059 thru FH-062	II.D.2.E	II.D.3.F
Dozer Operations on Storage Pile	FH-063	II.D.2.E	II.D.3.B
Dozer Reclaim from Storage Pile to Loadout Conveyor	FH-064	II.D.2.E	II.D.3.B
Loadout Conveyor to Rail Transfer Conveyor	FH-065	II.D.2.E	II.D.3.B
Railcar Loading	FH-066	II.D.2.E	II.D.3.B
Transloading Storage Pile to Loadout Conveyor	FH-067	II.D.2.E	II.D.3.C,D
Transloading Fuel Loading to Truck	FH-068	II.D.2.E	II.D.3.C,D
Transloading Fuel Loading to Truck	FH-069	II.D.2.E	II.D.3.E
Long Term Storage Pile	FH-070	II.D.2.E	II.D.3.D
Dozer Operations on Long Term Storage Pile	FH-071	II.D.2.E	II.D.3.D
Fuel Trucks, Full	FH-072	II.D.2.E	II.D.3.E
Fuel Trucks, Empty	FH-073	II.D.2.E	II.D.3.E

Combustion Sources (CS)

Description	Source ID	Location	Process
Unit No. 1	CS-001	II.D.2.C	II.D.3.H
Unit No. 2	CS-002	II.D.2.C	II.D.3.H
Unit No. 3	CS-003	II.D.2.C	II.D.3.H
Unit No. 4	CS-004	II.D.2.C	II.D.3.H
Combustion Turbine #1	CS-005	II.D.2.C	II.D.3.I
Combustion Turbine #2	CS-006	II.D.2.C	II.D.3.I
Combustion Turbine #3	CS-007	II.D.2.C	II.D.3.I

Limestone Handling and Storage Sources (LSH)

Description	Source ID	Figure No.	
		Location	Process
Railcar/Truck Unloading	LSH-001	II.D.2.D	II.D.3.J
Conveyor LB to Conveyor LC	LSH-002	II.D.2.D	II.D.3.J
Conveyor LD to Conveyor LE	LSH-003	II.D.2.D	II.D.3.J
Conveyor LE to South Storage Silo	LSH-004, 005	II.D.2.D	II.D.3.J
Conveyor LE to North Storage Silo	LSH-006, 007	II.D.2.D	II.D.3.J
Trucks, Full	LSH-008	II.D.2.D	II.D.3.J
Trucks, Empty	LSH-009	II.D.2.D	II.D.3.J

Fly Ash Handling and Storage Sources (FA)

Description	Source ID	Location	Process
Dry Transfer From Silo #1 to Trucks	FA-002	II.D.2.F	II.D.3.K
Wet (Pug Mill) Transfer From Silo #1 to Trucks	FA-003	II.D.2.F	II.D.3.K
From Units 1,2, and 3 to Silo #2	FA-004	II.D.2.F	II.D.3.K
Dry Transfer From Silo #2 to Trucks	FA-005	II.D.2.F	II.D.3.K
From Unit 4 to Silo #3	FA-006	II.D.2.F	II.D.3.K
Dry Transfer From Silo #3 to Trucks	FA-007	II.D.2.F	II.D.3.K
Wet (Pug Mill) Transfer From Silo #3 to Trucks	FA-008	II.D.2.F	II.D.3.K
Trucks, Full	FA-009	II.D.2.F	II.D.3.K
Trucks, Empty	FA-010	II.D.2.F	II.D.3.K

Gypsum Handling and Storage Sources (GH)

Description	Source ID	Location	Process
Storage - North Stackout Pile	GH-002	II.D.2.G	II.D.3.L
Dozer Operations on North Stackout Pile	GH-003	II.D.2.G	II.D.3.L
Dozer Transfer from North Stackout Pile to Trucks	GH-004	II.D.2.G	II.D.3.L
Trucks (Full) at North Stackout Pile to Off-Site	GH-005	II.D.2.G	II.D.3.L
Trucks (Empty) at North Stackout Pile to Off-Site	GH-006	II.D.2.G	II.D.3.L
Conveyor GD to Conveyor GE	GH-007	II.D.2.G,H	II.D.3.L
Conveyor GE to Conveyor GF	GH-008	II.D.2.H	II.D.3.L
Conveyor GF to Radial Stocker	GH-009	II.D.2.H	II.D.3.L
Radial Stocker to South Stackout Pile	GH-010	II.D.2.H	II.D.3.L
Storage - South Stackout Pile	GH-011	II.D.2.H	II.D.3.L
Dozer Operations on South Stackout Pile	GH-012	II.D.2.H	II.D.3.L
Dozer Operations on Long Term Storage Pile	GH-013	II.D.2.H	II.D.3.L
Storage - Long Term Storage Pile	GH-014	II.D.2.H	II.D.3.L
Dozer Transfer from Long Term Storage Pile to Trucks	GH-015	II.D.2.H	II.D.3.L
Trucks (Full) at Long Term Storage Pile to Off-Site	GH-016	II.D.2.H	II.D.3.L
Trucks (Empty) at Long Term Storage Pile to Off-Site	GH-017	II.D.2.H	II.D.3.L

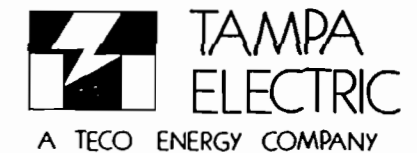
Slag and Bottom Ash Handling Sources (BH)

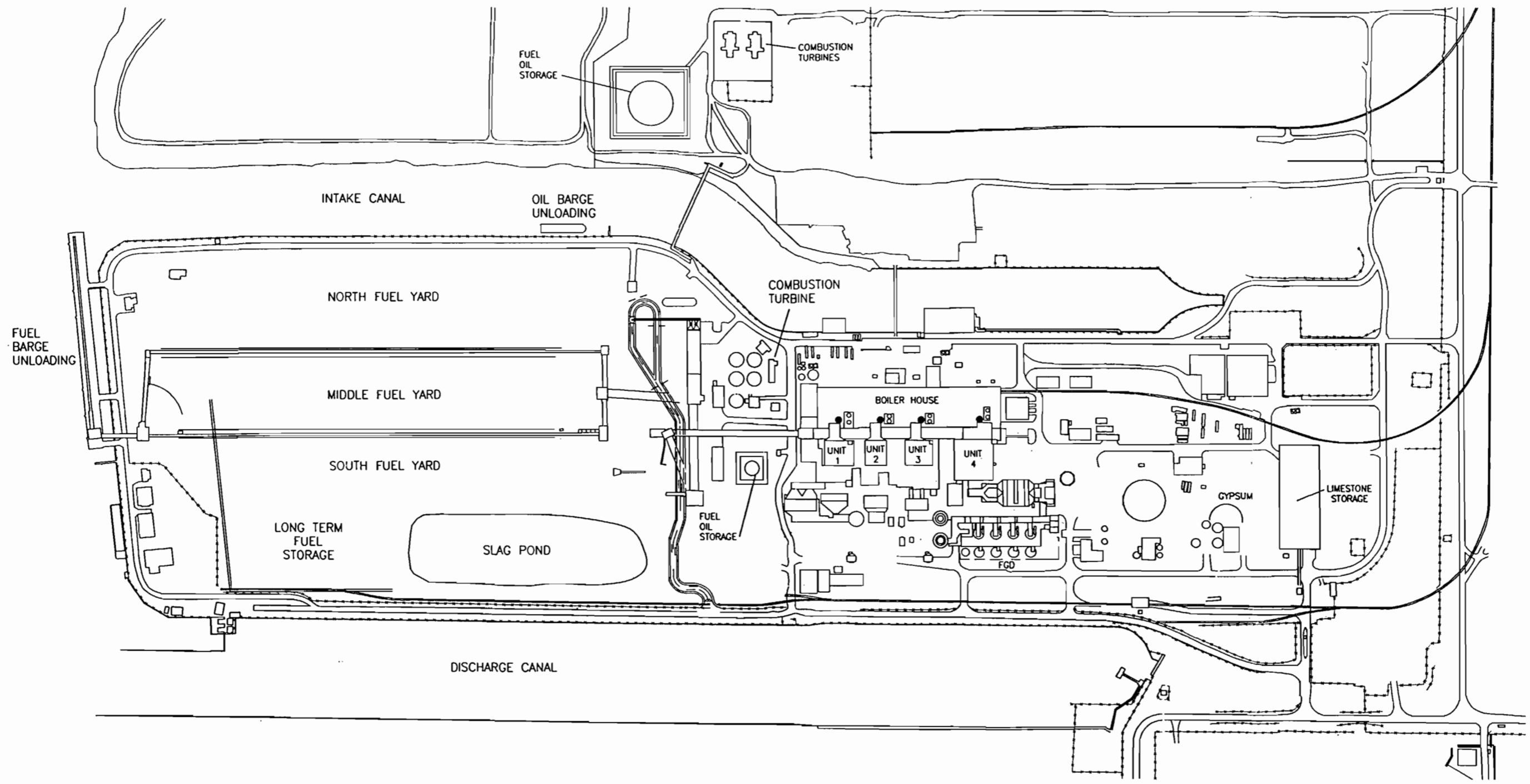
Description	Source ID	Location	Process
Slag Trucks, Empty	BH-002	II.D.2.I	II.D.3.M
Bottom Ash Trucks, Full	BH-003	II.D.2.J	II.D.3.M
Bottom Ash Trucks, Empty	BH-004	II.D.2.J	II.D.3.M

DOCUMENT II.D.2.A.

BIG BEND STATION EMISSION SOURCE IDENTIFICATION KEY SHEET

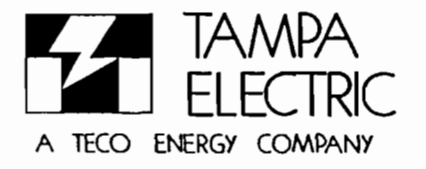
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DOCUMENT II.D.2.B.
 OVERALL FACILITY PLOT PLAN

Source: ECT, 1996.



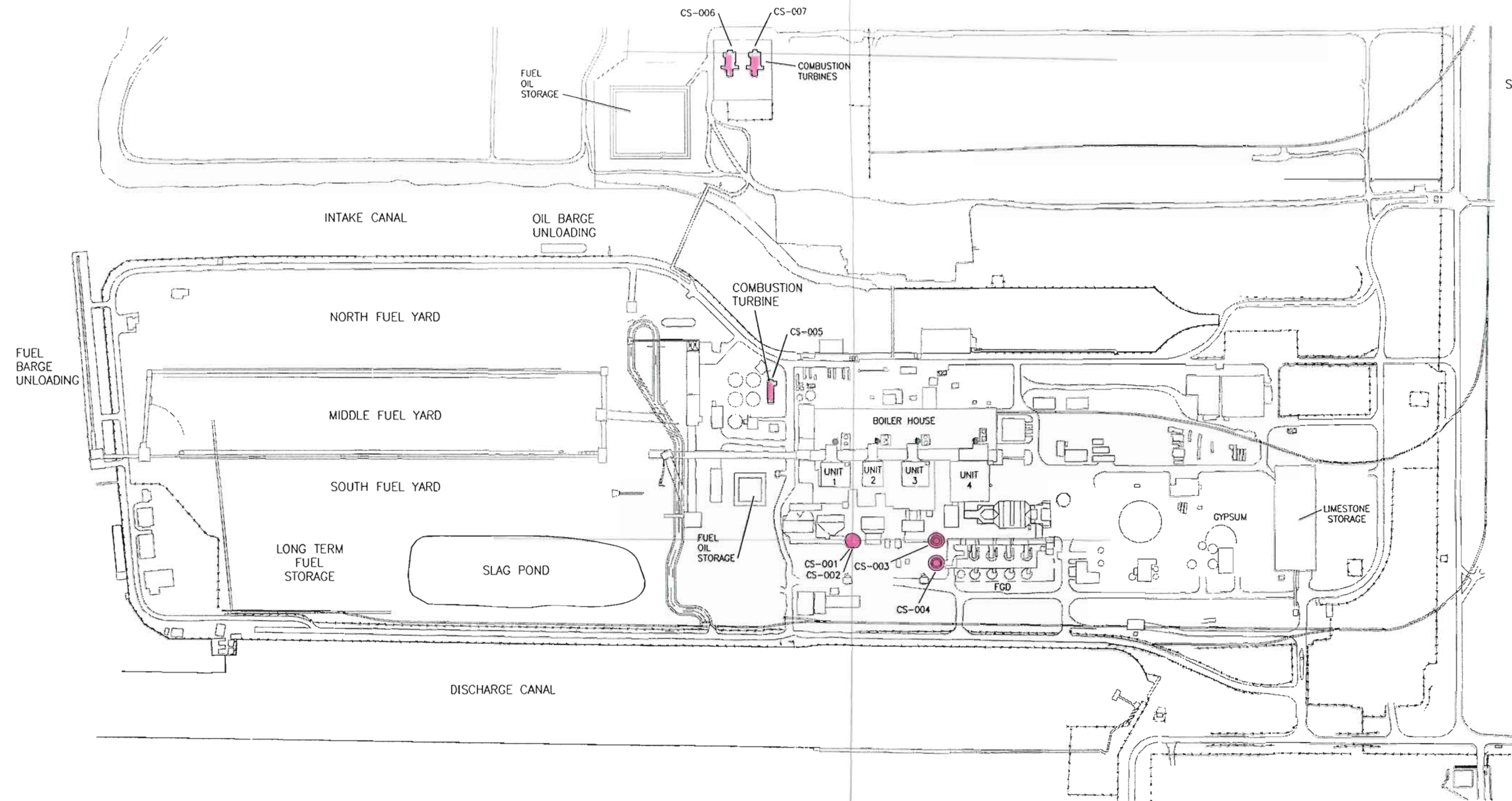


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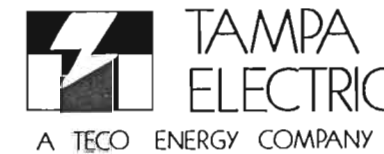
CS-007 EMISSION POINT



DOCUMENT I.D.2.C.

COMBUSTION EMISSION SOURCES

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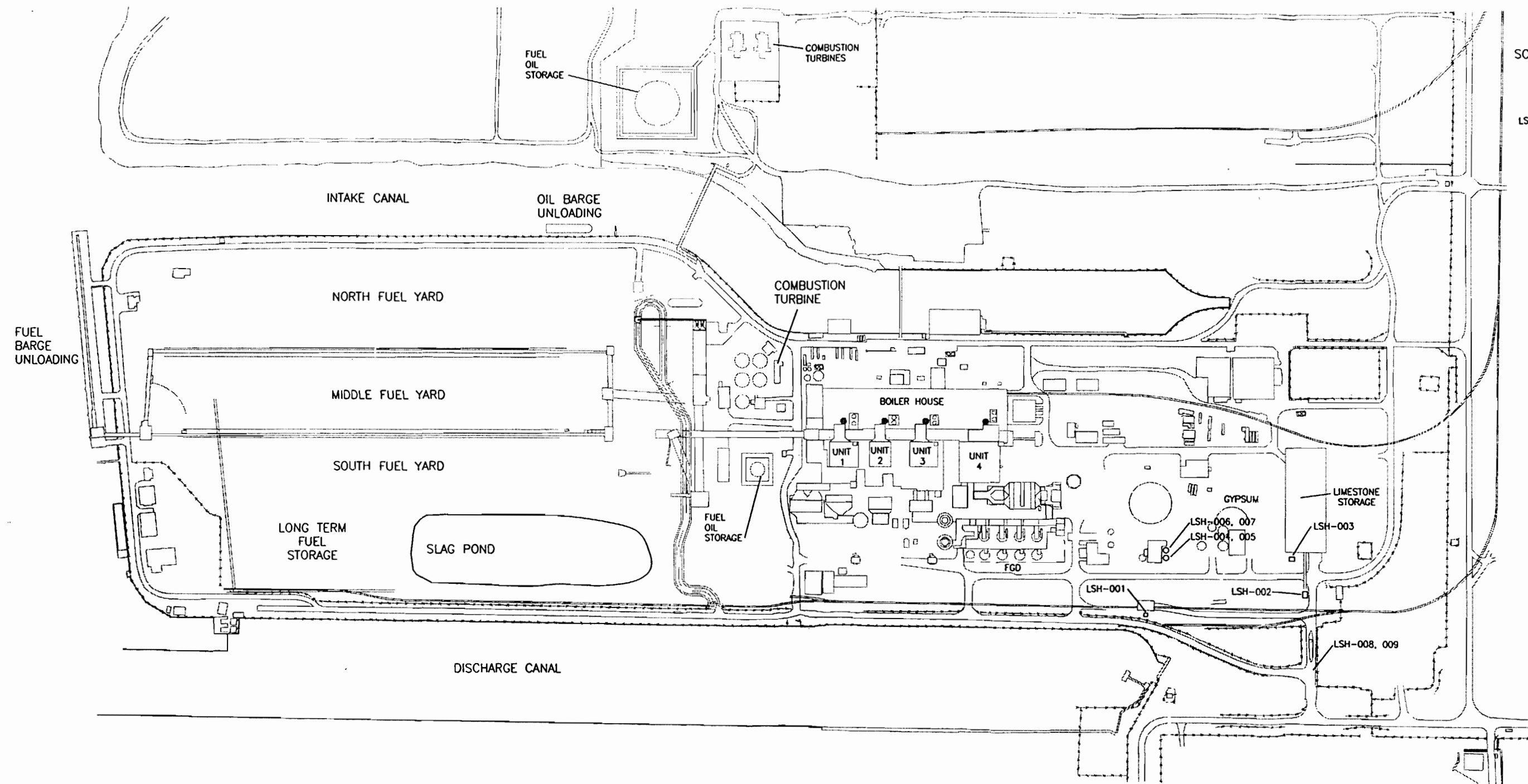




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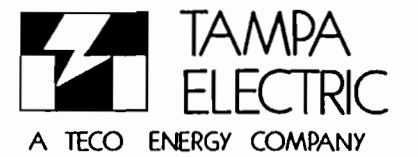
LSH-003 EMISSION POINT

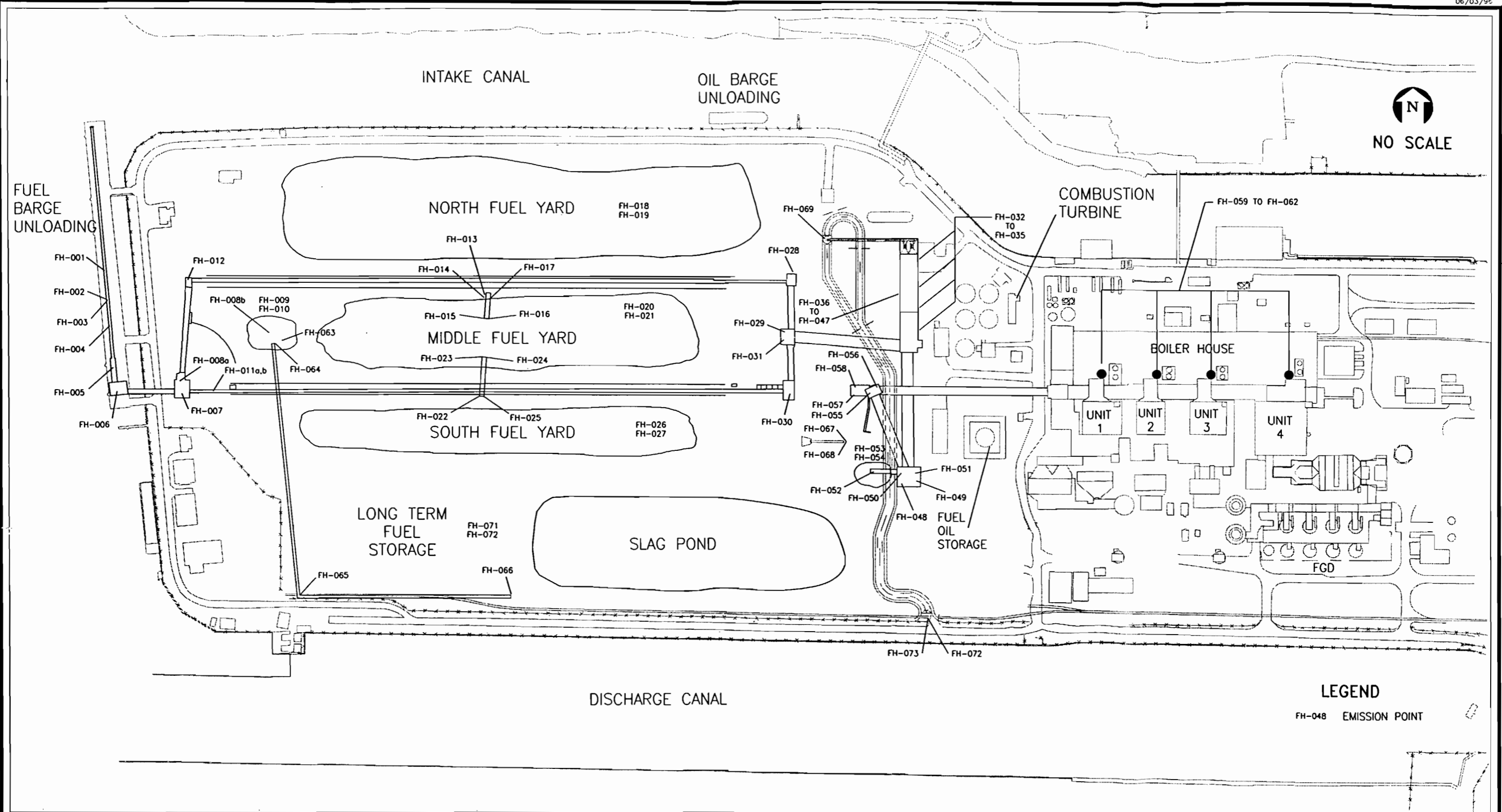


DOCUMENT I.D.2.D.

LIMESTONE HANDLING EMISSION SOURCES

Source: ECT, 1996.



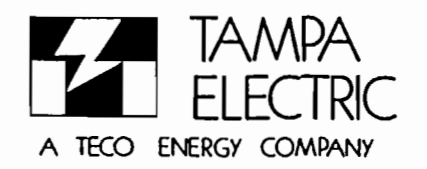


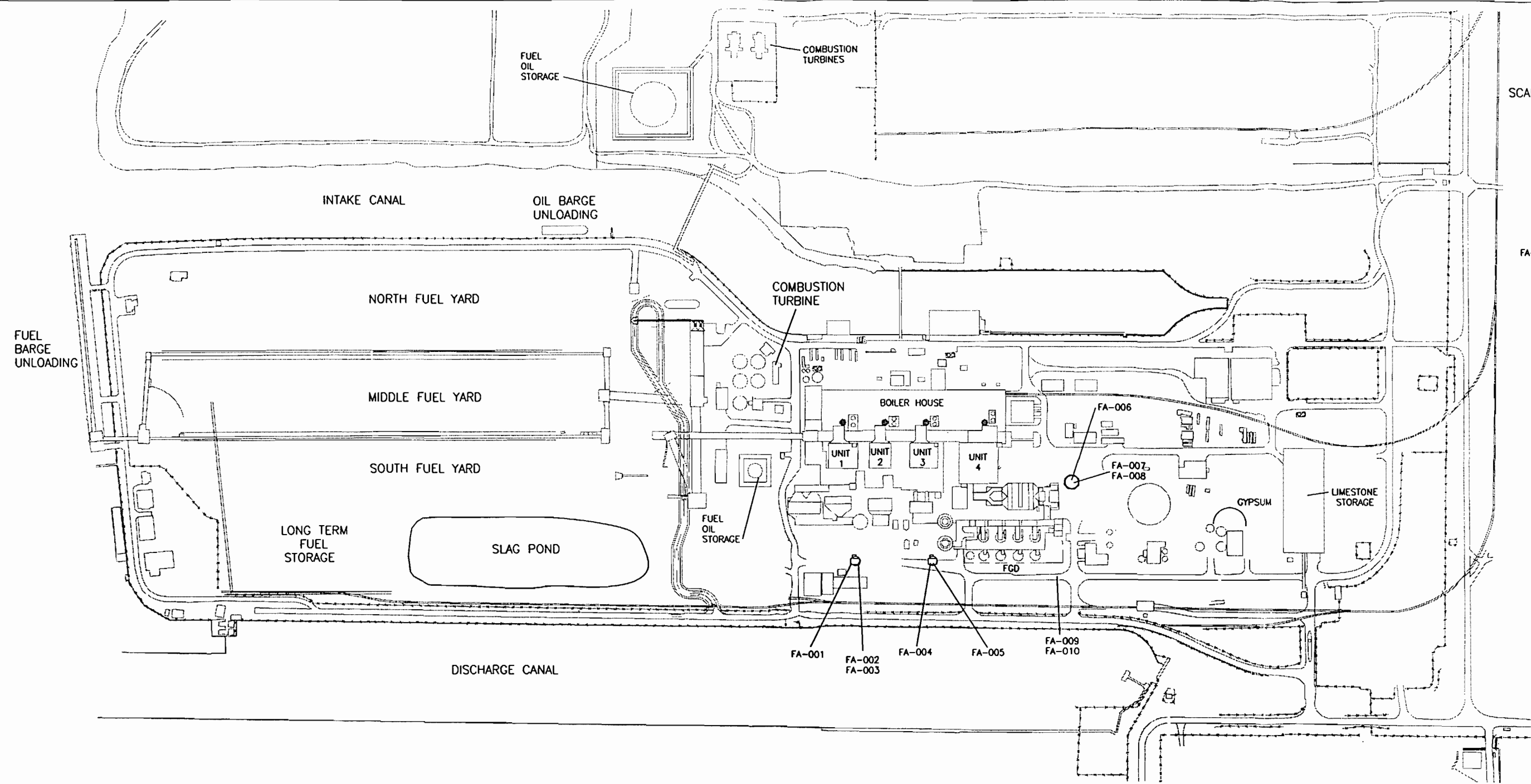
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FH-048 EMISSION POINT

DOCUMENT II.D.2.E
 BIG BEND STATION
 FUEL HANDLING AND STORAGE EMISSION SOURCES

Source: ECT, 1996.





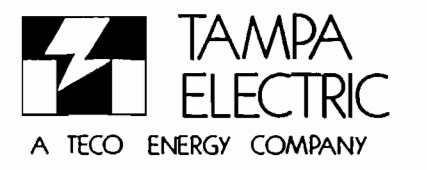
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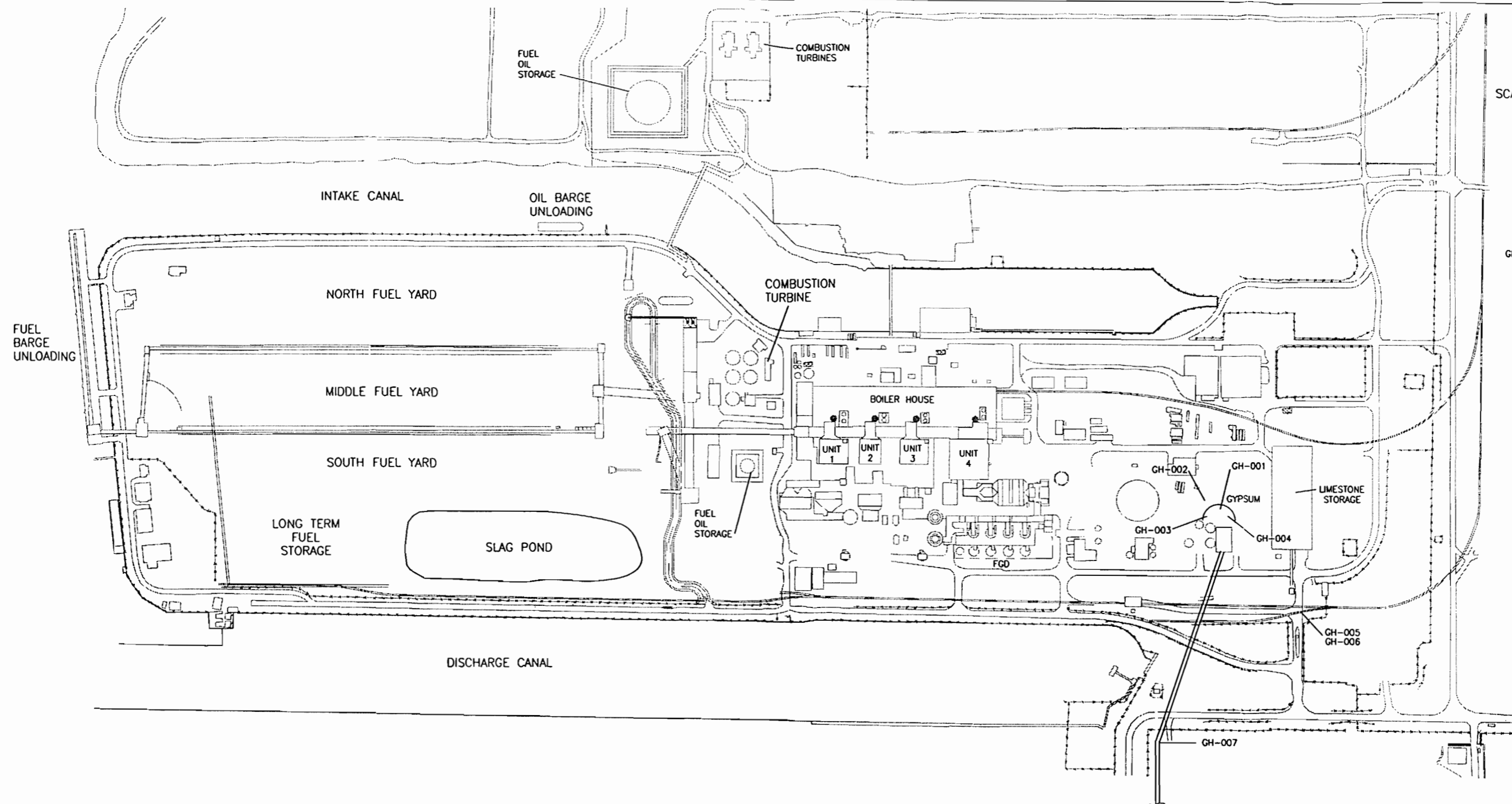
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FA-005 EMISSION POINT

DOCUMENT I.D.2.F.
 BIG BEND STATION
 FLY ASH HANDLING AND STORAGE EMISSION SOURCES

Source: ECT, 1996.





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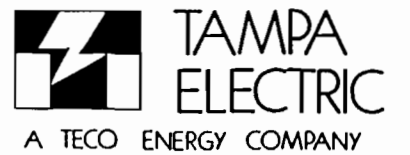
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GH-006 EMISSION POINT

DOCUMENT I.D.2.G.

BIG BEND STATION
 GYPSUM HANDLING AND STORAGE EMISSION SOURCES

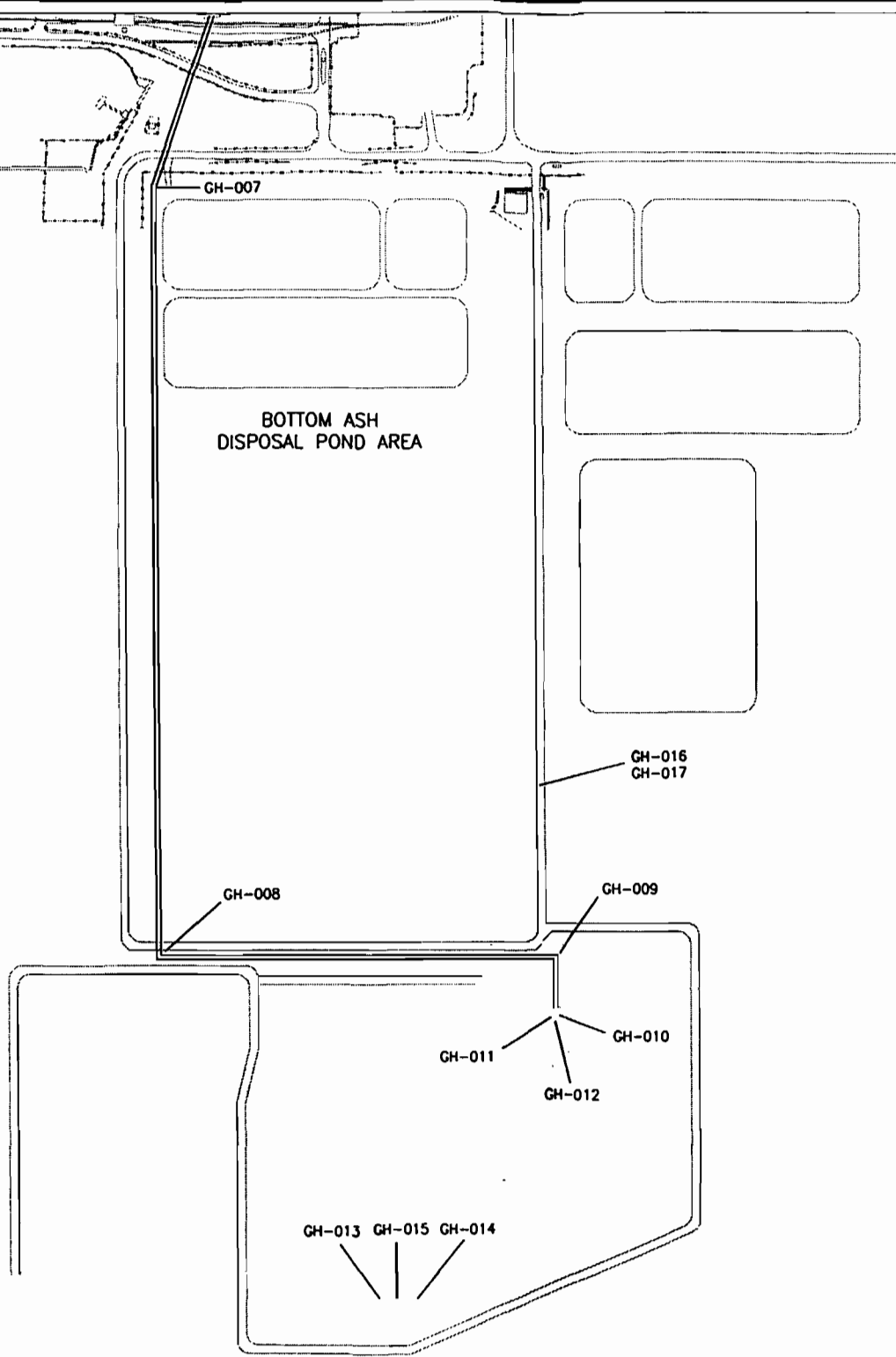
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DISCHARGE CANAL



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FLY ASH
DISPOSAL POND AREA

BOTTOM ASH
DISPOSAL POND AREA

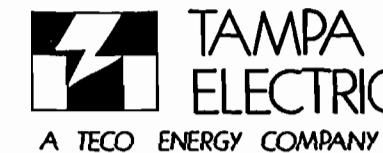
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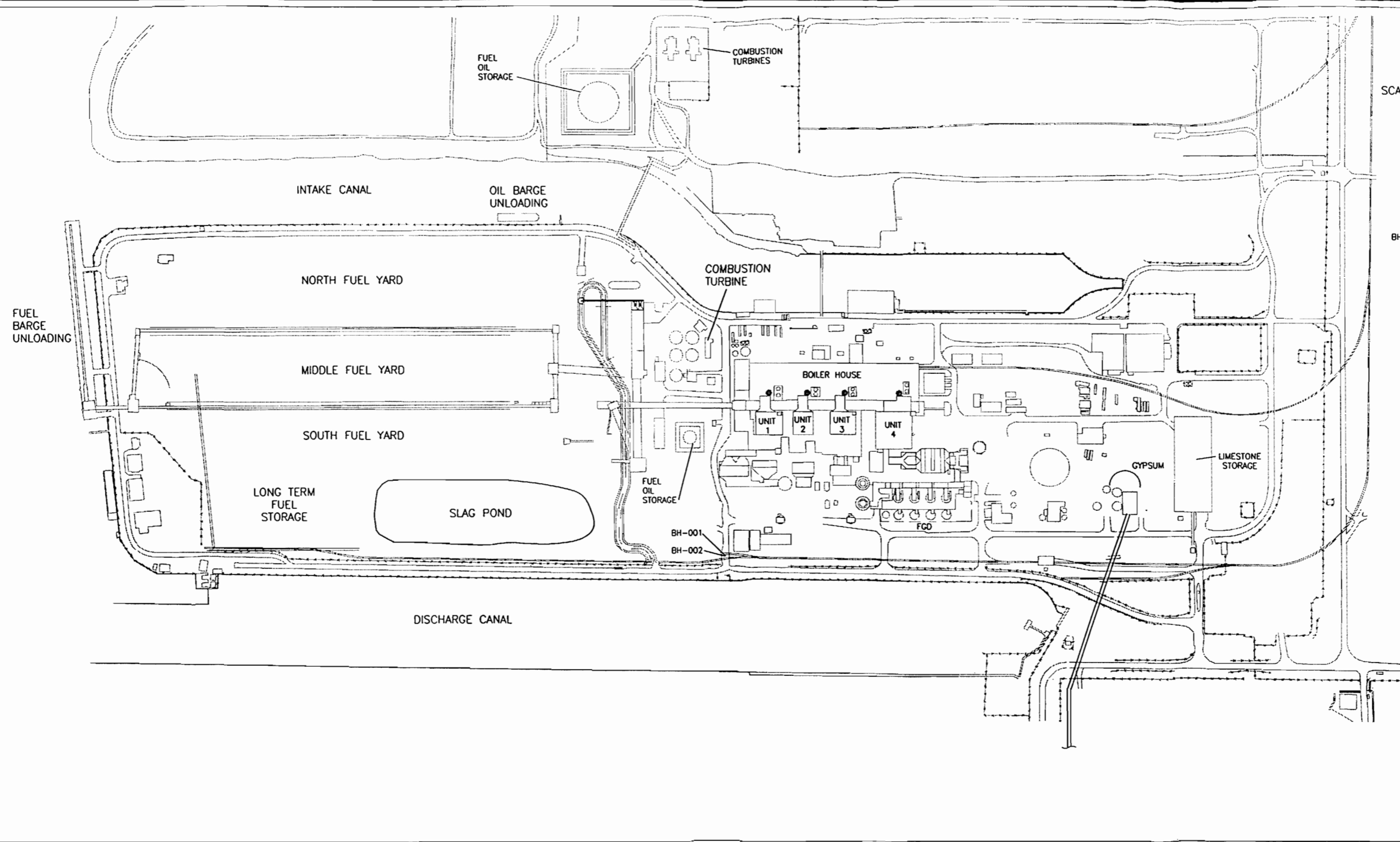
GH-007 EMISSION POINT

DOCUMENT I.D.2.H.

BIG BEND STATION
GYPSUM HANDLING AND STORAGE EMISSION SOURCE

Source: ECT, 1996.





SCALE: 1"=400' (APPROX.)

LEGEND

BH-001 EMISSION POINT

DOCUMENT I.I.D.2.I

BIG BEND STATION
 SLAG AND BOTTOM ASH HANDLING EMISSION SOURCES

Source: ECT, 1996.



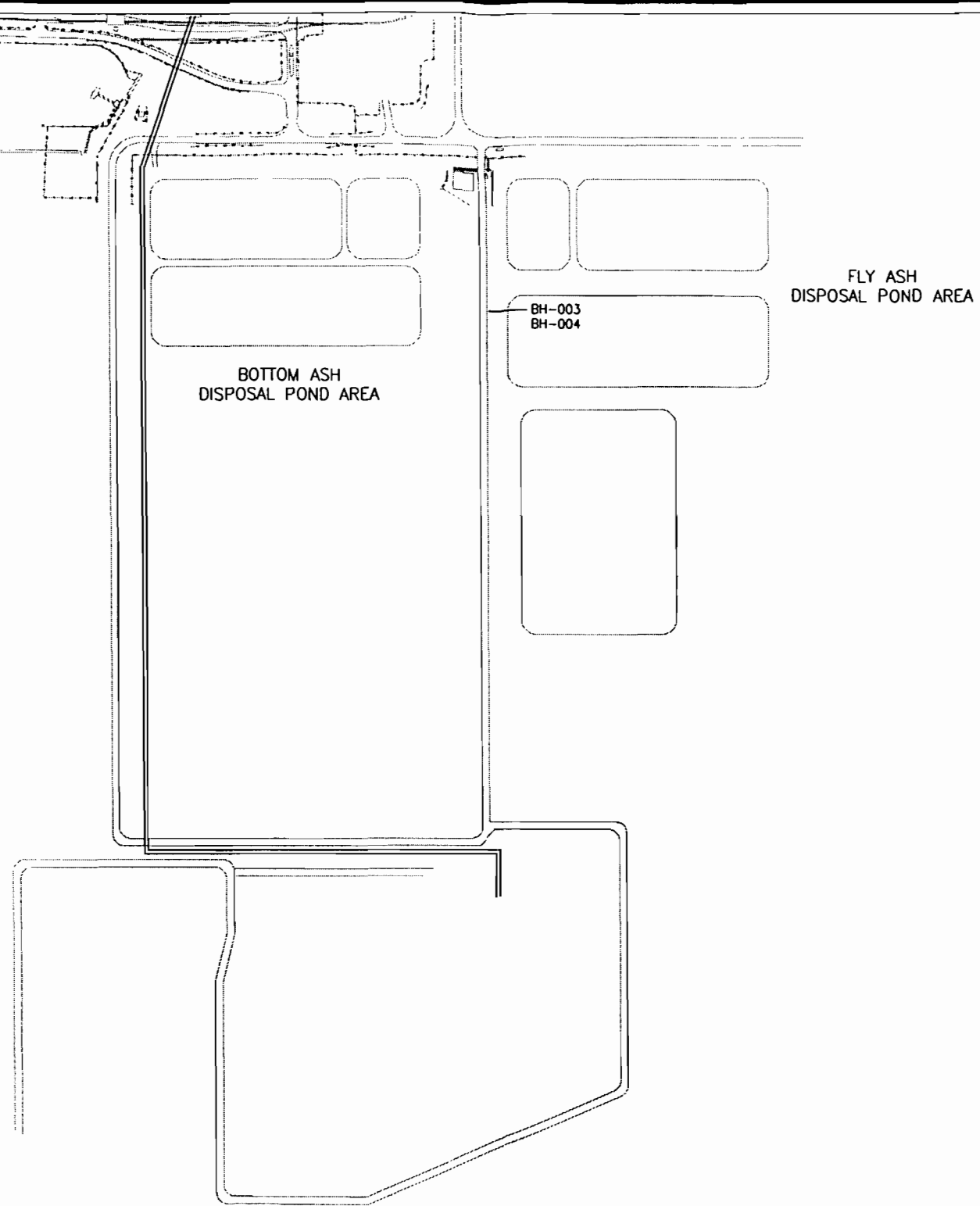
DISCHARGE CANAL



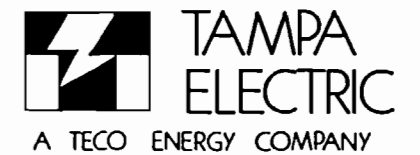
SCALE: 1"=500' (APPROX.)

LEGEND

BH-004 EMISSION POINT



DOCUMENT I.D.2.J.
 BIG BEND STATION
 SLAG AND BOTTOM ASH HANDLING EMISSION SOURCE
 Source: ECT, 1996.



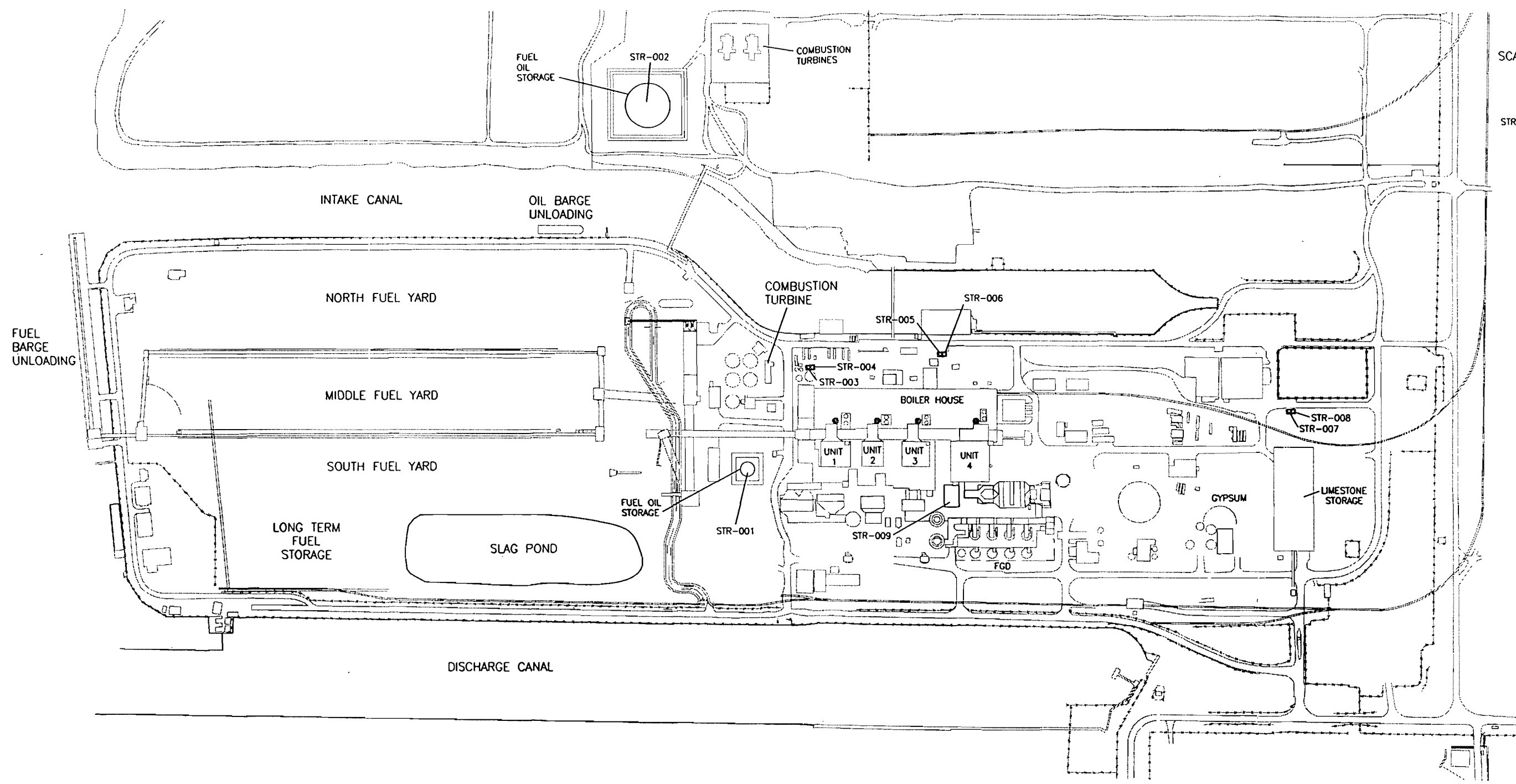


NO SCALE

SCALE: 1"=400' (APPROX.)

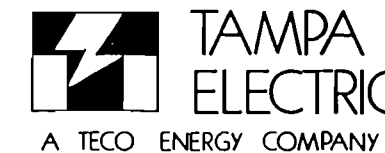
LEGEND

STR-008 EMISSION POINT



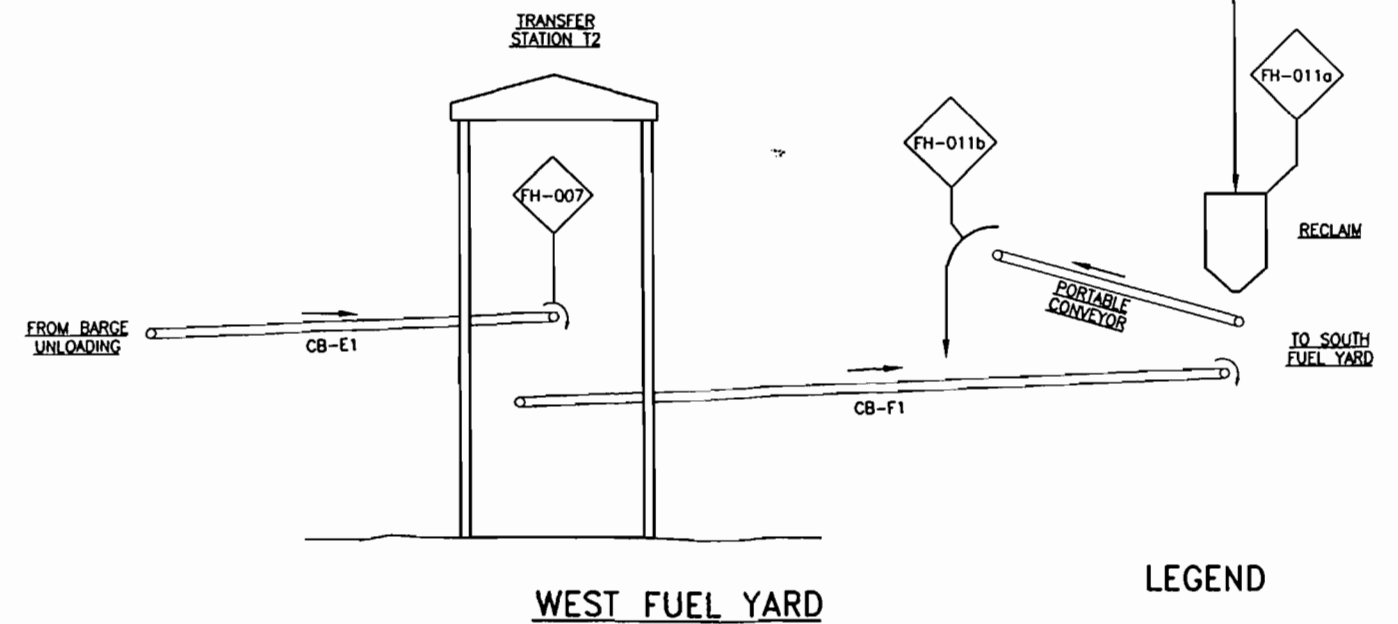
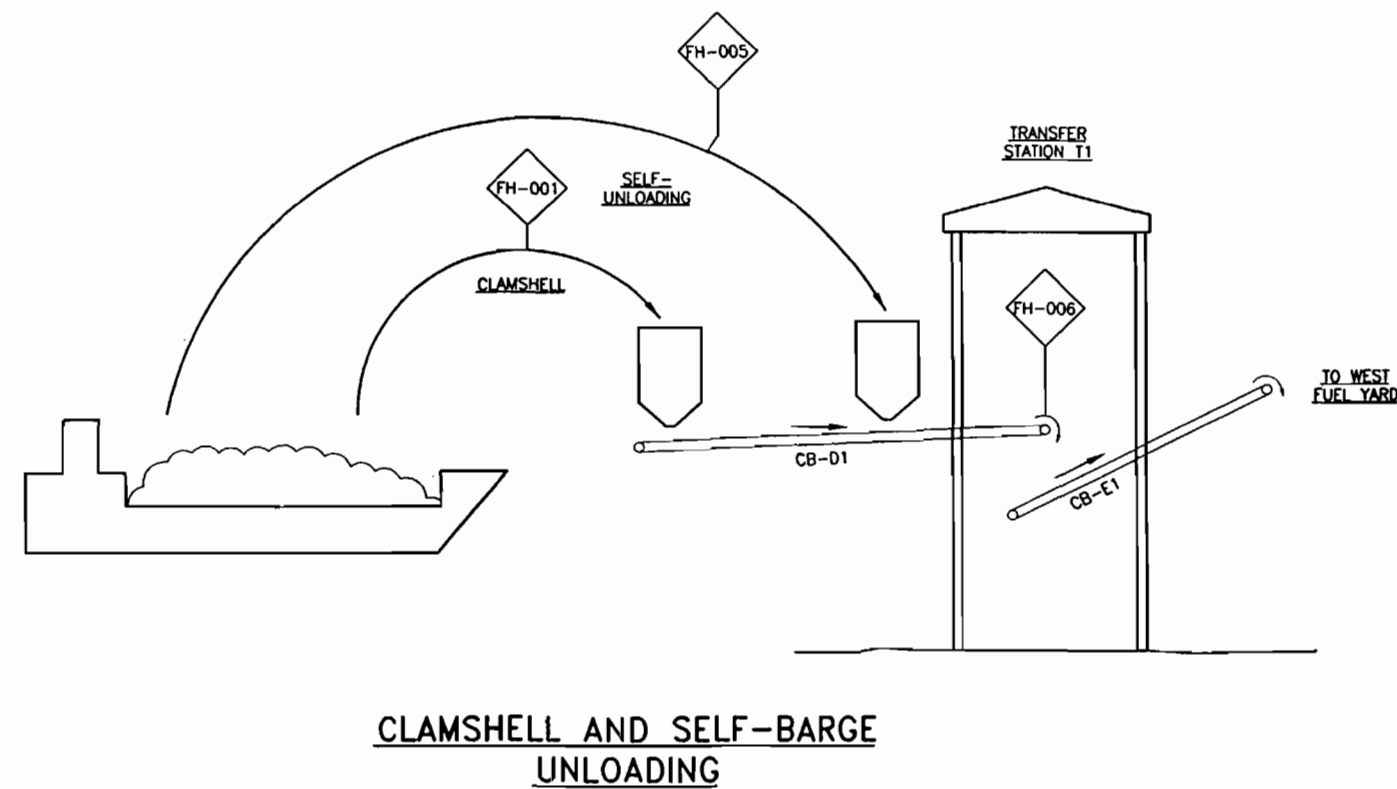
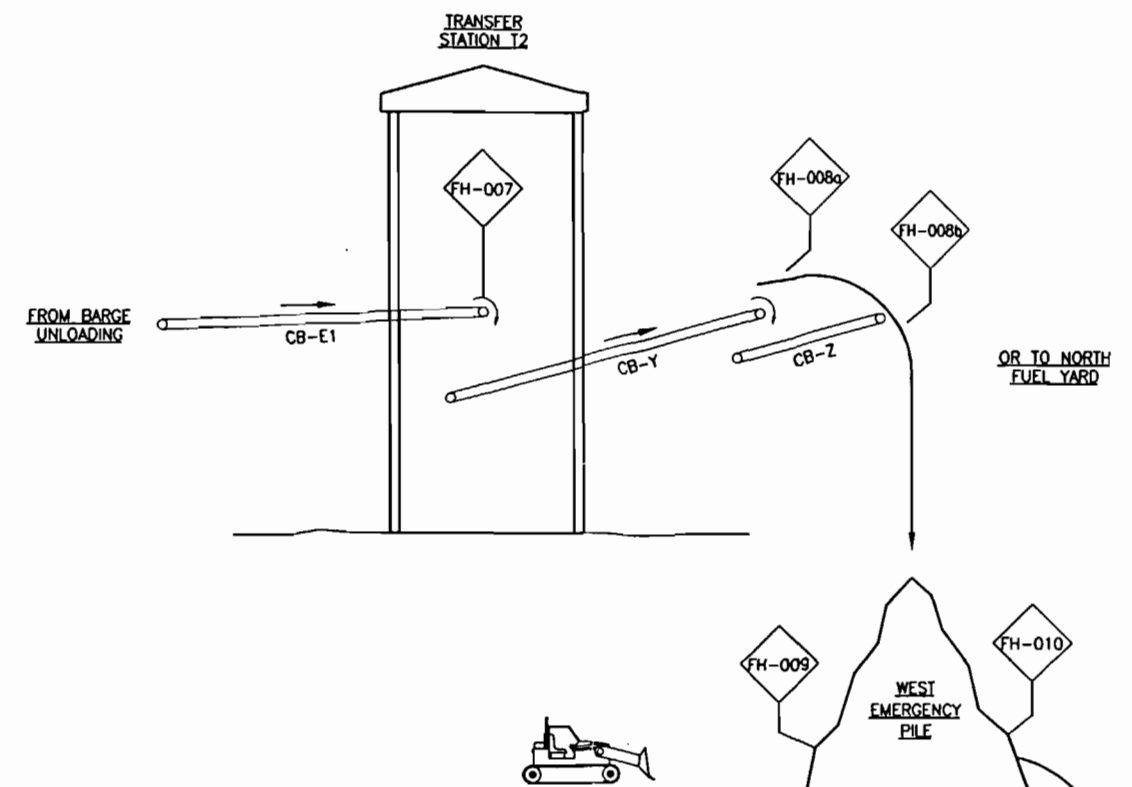
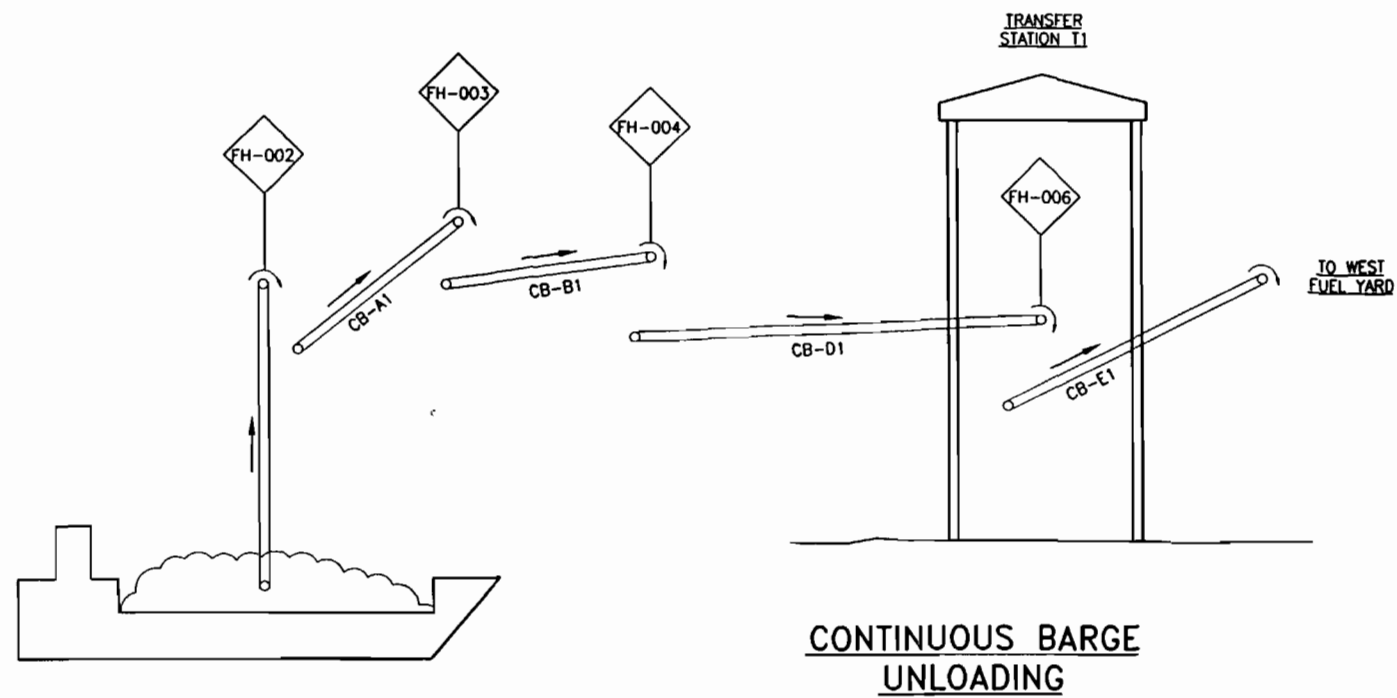
DOCUMENT I.I.D.2.K.
STORAGE TANK EMISSION SOURCES

Source: ECT, 1996.



II.D.3

PROCESS FLOW DIAGRAMS



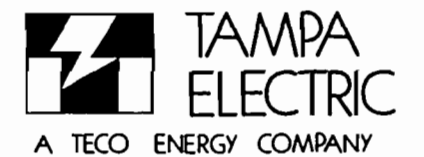
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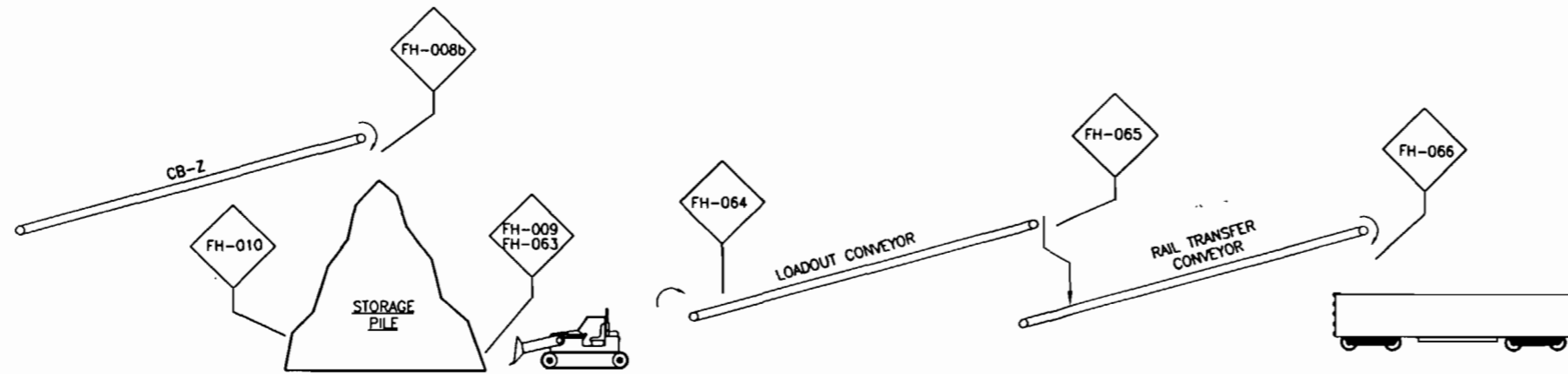
FH-009 EMISSION POINT

DOCUMENT I.D.3.A.

FUEL HANDLING PROCESS FLOW SCHEMATIC, BARGE UNLOADING AND WEST FUEL YARD

Source: ECT, 1996.





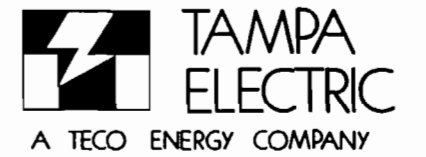
LEGEND

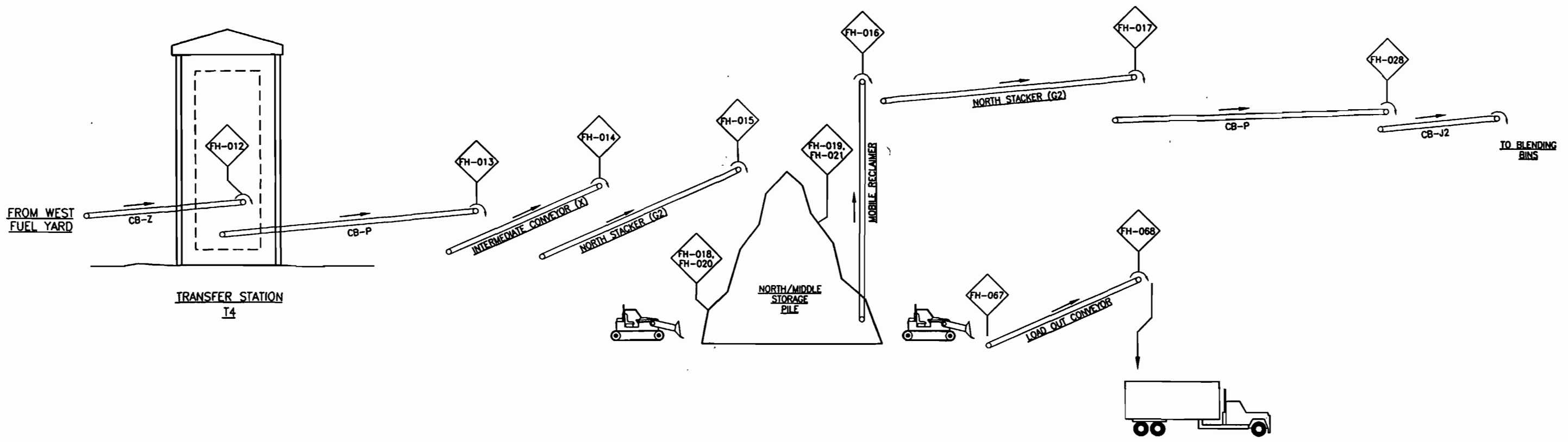
 EMISSION POINT

DOCUMENT I.I.D.3.B.

FUEL HANDLING PROCESS FLOW SCHEMATIC, RAILCAR LOADOUT

Source: ECT, 1996.





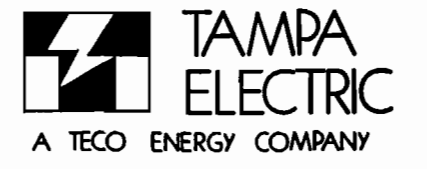
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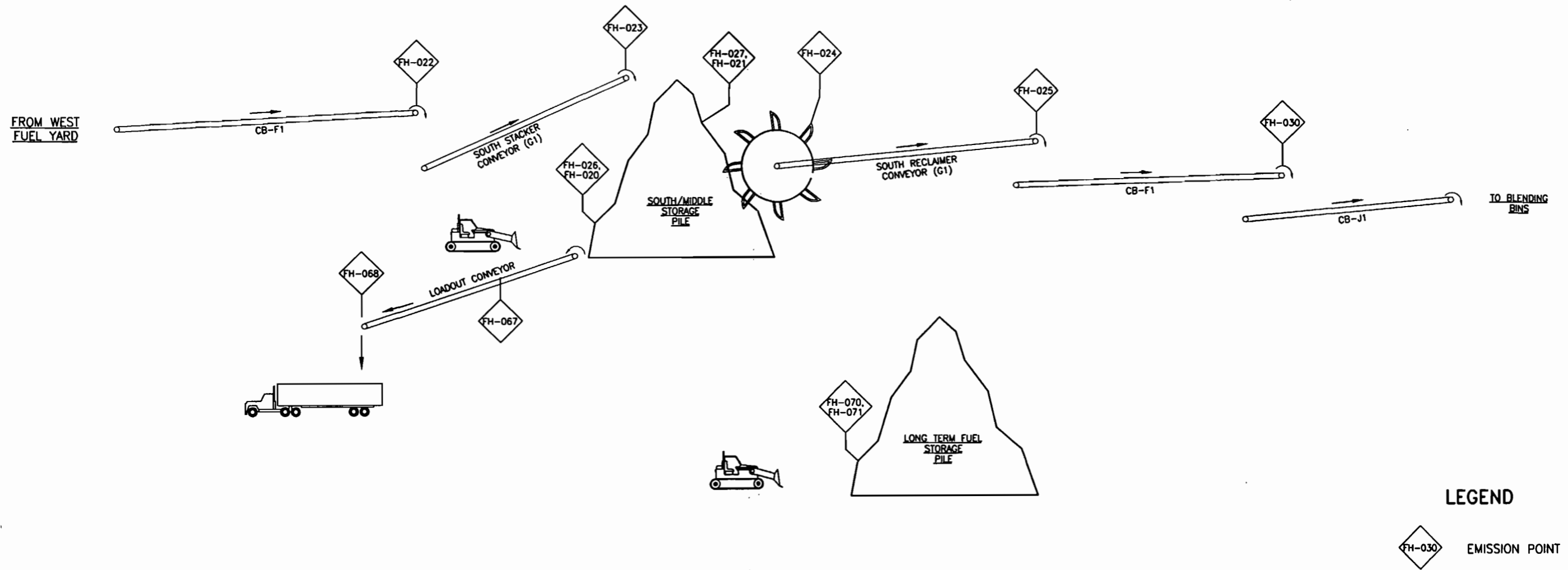
 EMISSION POINT

DOCUMENT I.D.3.C.

FUEL HANDLING PROCESS FLOW DIAGRAM NORTH FUEL YARD

Source: ECT, 1996.

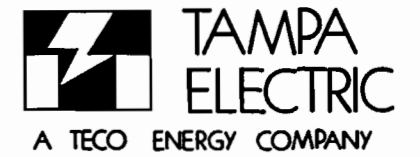


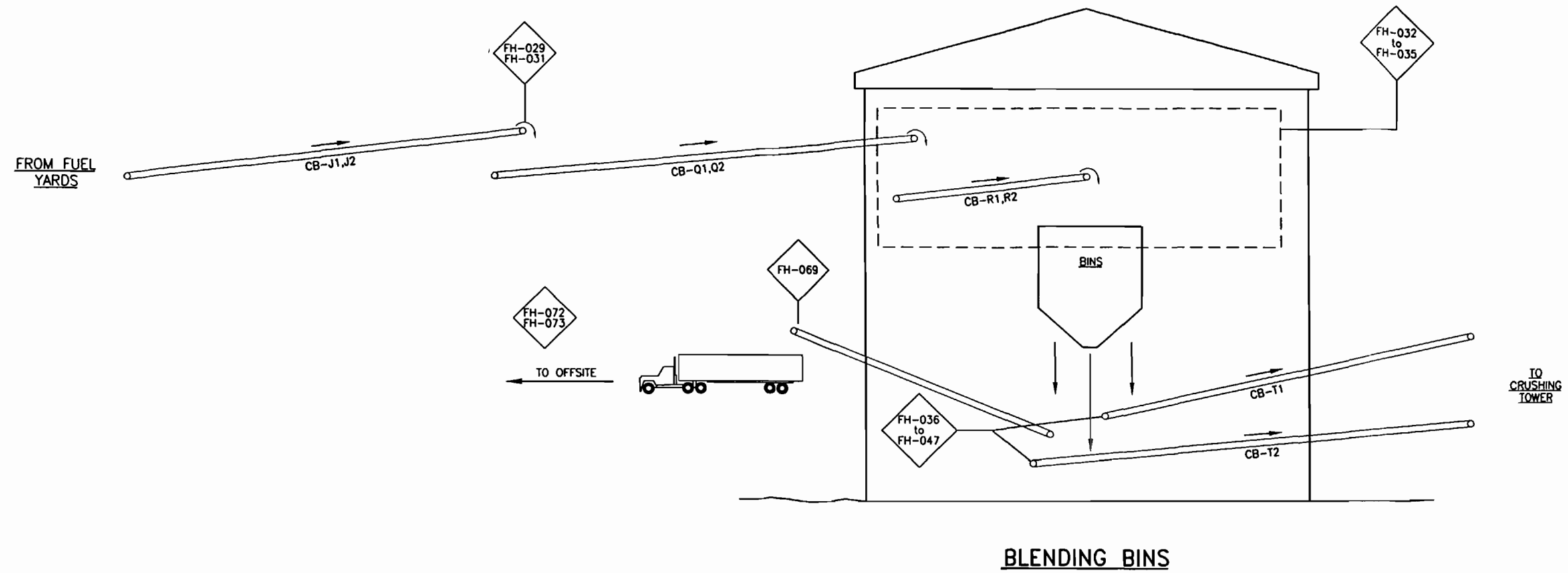


DOCUMENT I.I.D.3.D.

FUEL HANDLING PROCESS FLOW DIAGRAM, SOUTH FUEL YARD

Source: ECT, 1996.





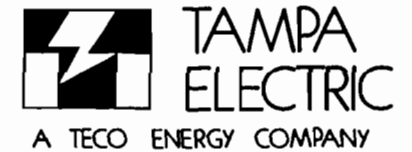
LEGEND

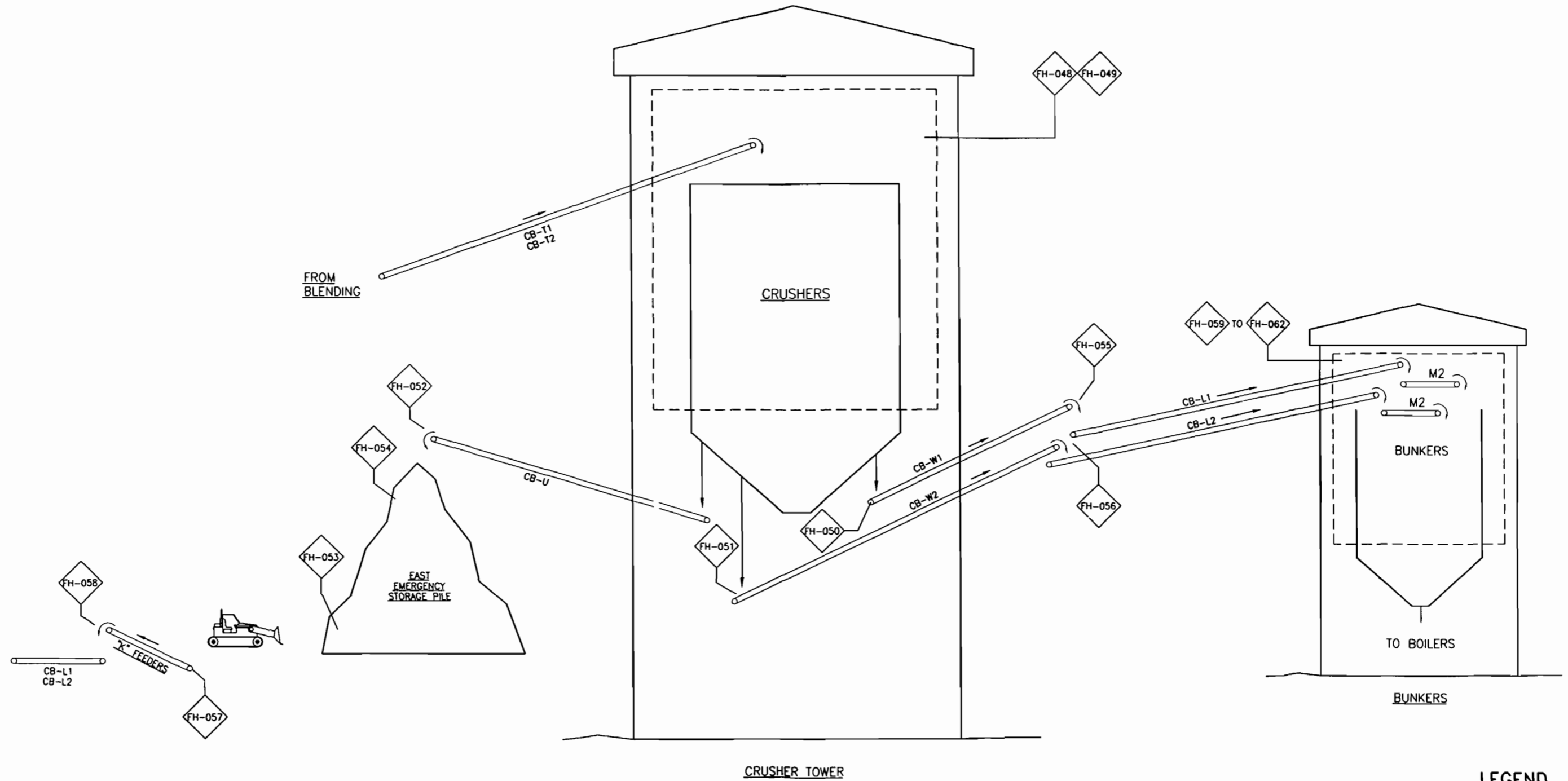


DOCUMENT IID.3.E.

FUEL HANDLING PROCESS FLOW DIAGRAM, BLENDING BINS

Source: ECT, 1996.



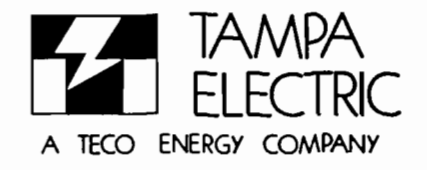


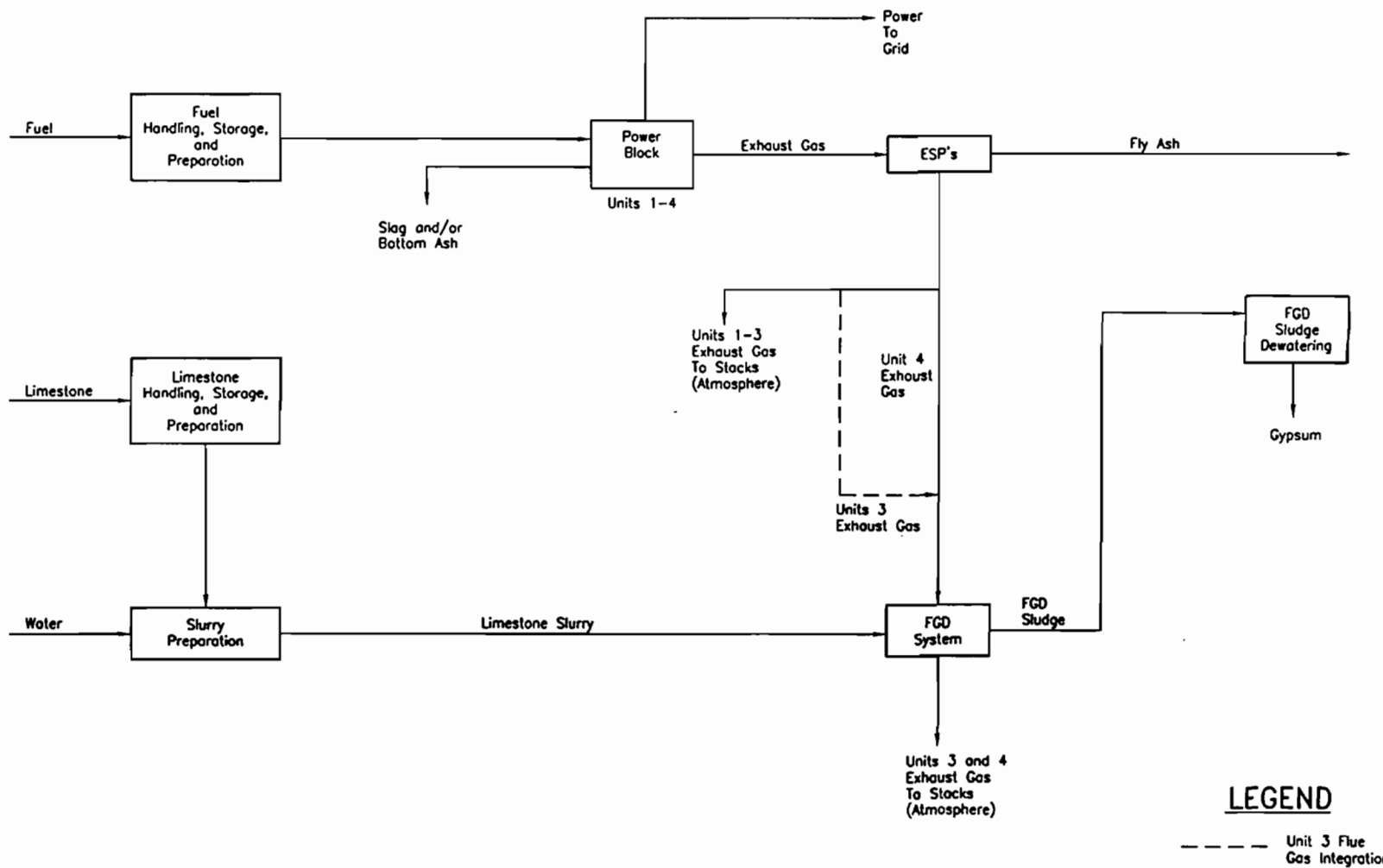
LEGEND

EMISSION POINT

DOCUMENT I.I.D.3.F.
FUEL HANDLING PROCESS FLOW DIAGRAM, CRUSHER TOWER AND BUNKERS

Source: ECT, 1996.





DOCUMENT ILD.3.G.

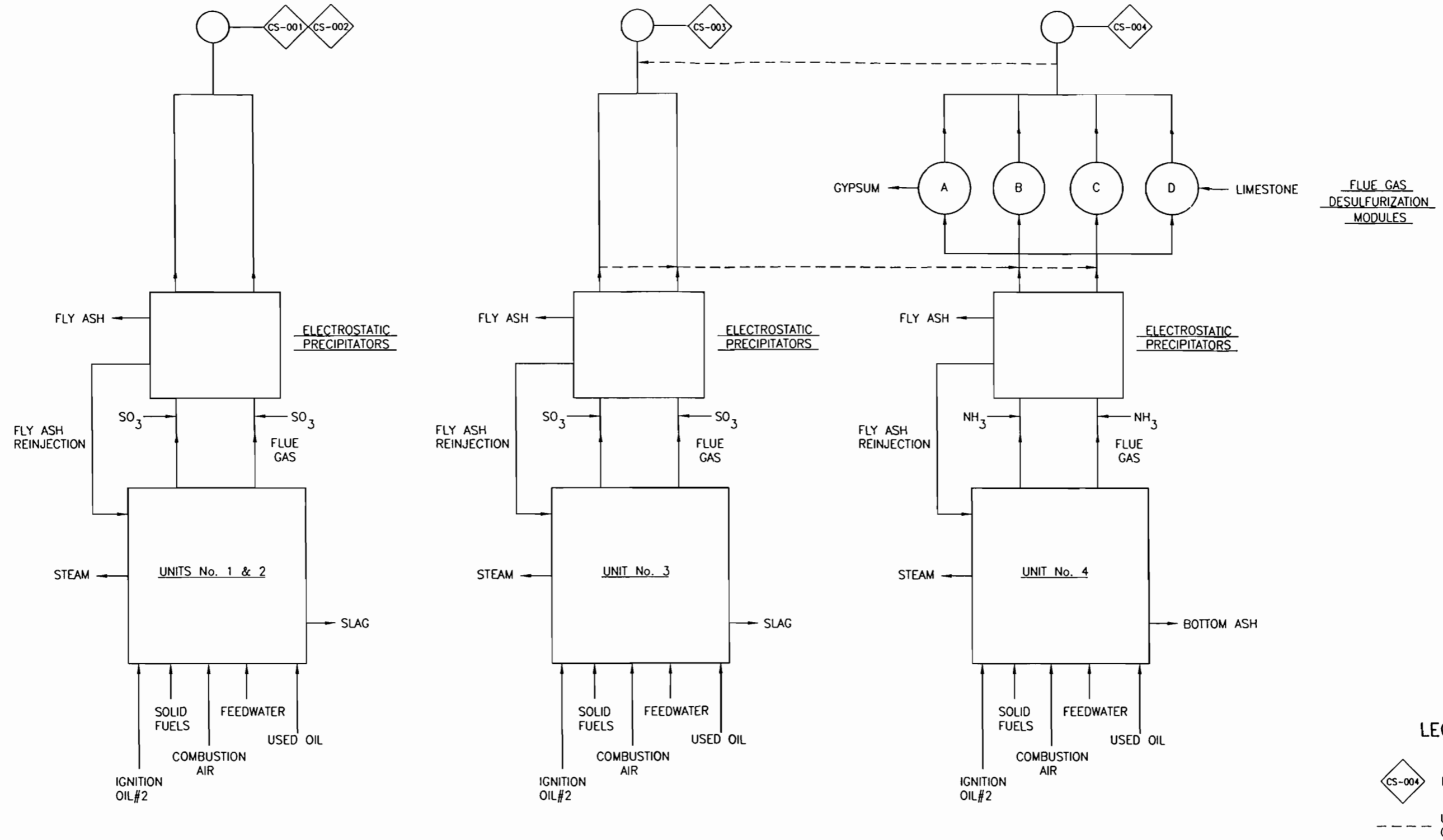
OVERALL BOILER PROCESS FLOW DIAGRAM

Source: ECT, 1996.





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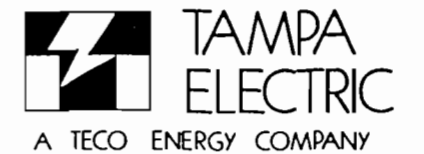


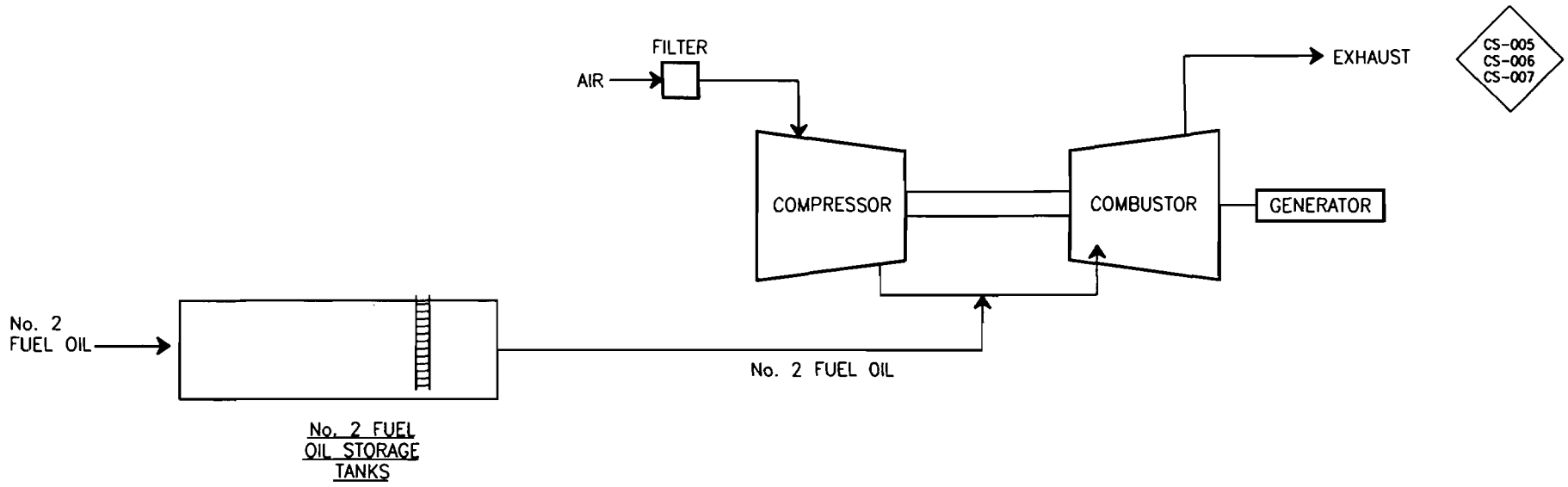
LEGEND

-  EMISSION POINT
-  UNIT 3 FLUE GAS INTEGRATION

DOCUMENT I.I.D.3.H.
 BOILER PROCESS FLOW DIAGRAM

Source: ECT, 1996.





LEGEND



DOCUMENT ILD.3.I.

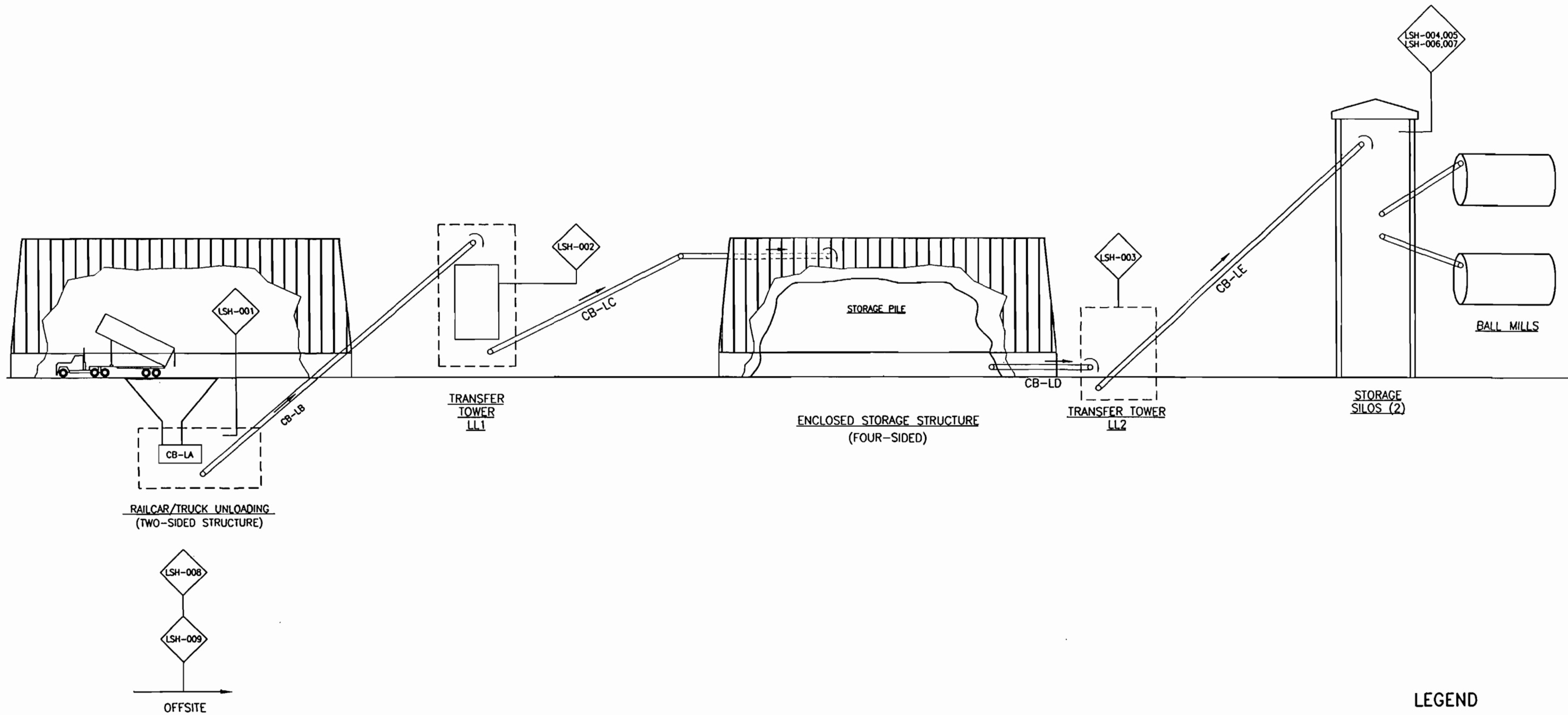
COMBUSTION TURBINE PROCESS FLOW DIAGRAM

Source: ECT, 1996.



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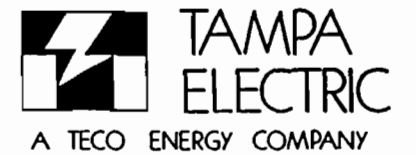
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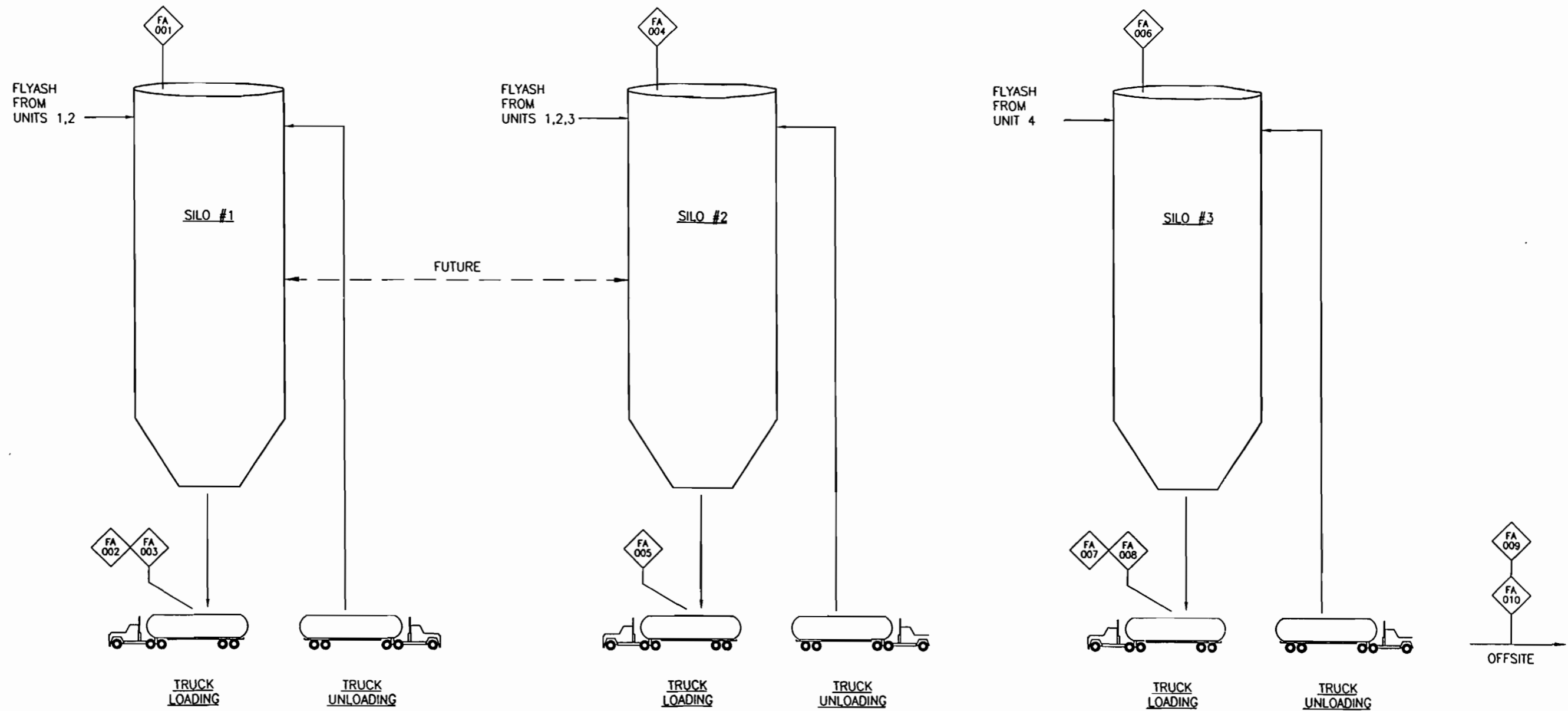


DOCUMENT I.I.D.3.J.

LIMESTONE HANDLING PROCESS FLOW DIAGRAM

Source: ECT, 1996.





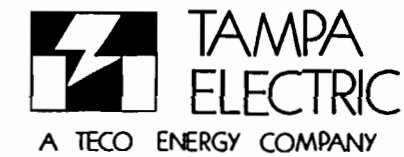
LEGEND

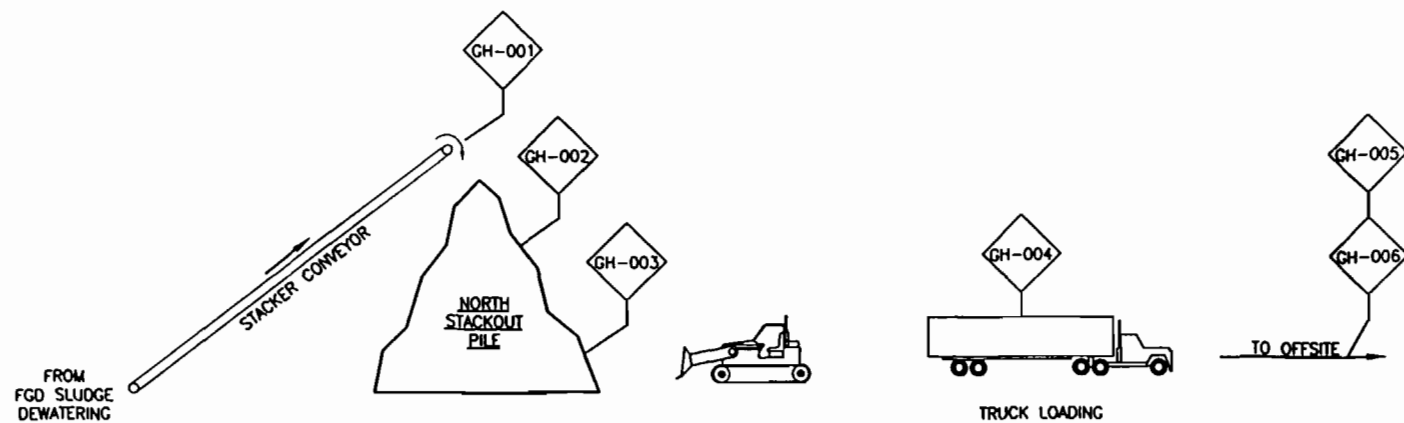
FA 007 EMISSION POINT

DOCUMENT I.D.3.K.

FLYASH HANDLING PROCESS FLOW DIAGRAM

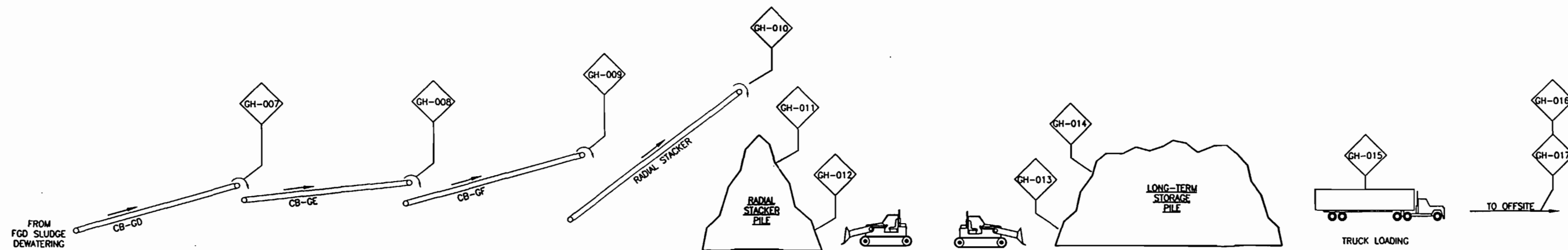
Source: ECT, 1996.





NORTH STACKOUT AREA

LEGEND

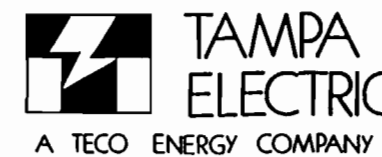


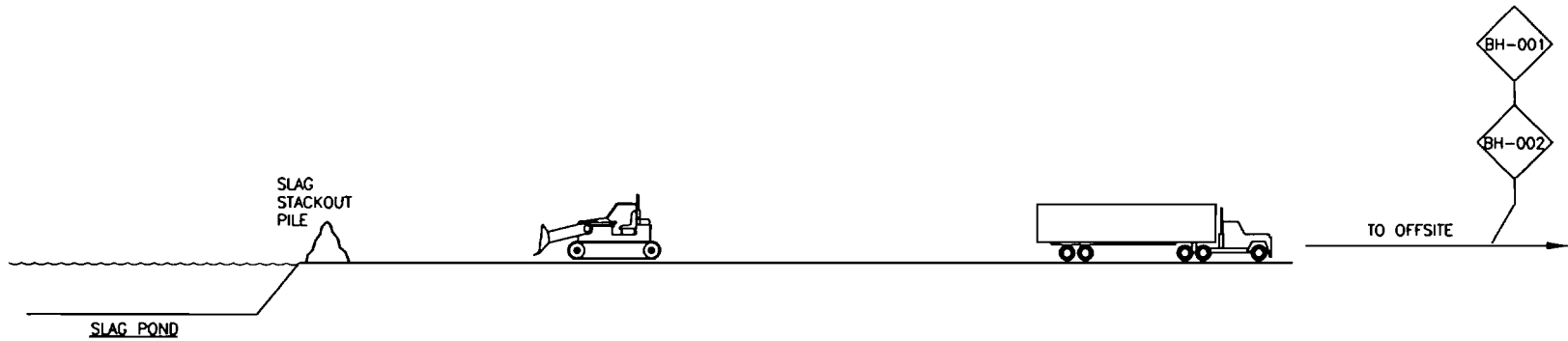
LONG TERM STORAGE AREA

DOCUMENT I.D.3.L.

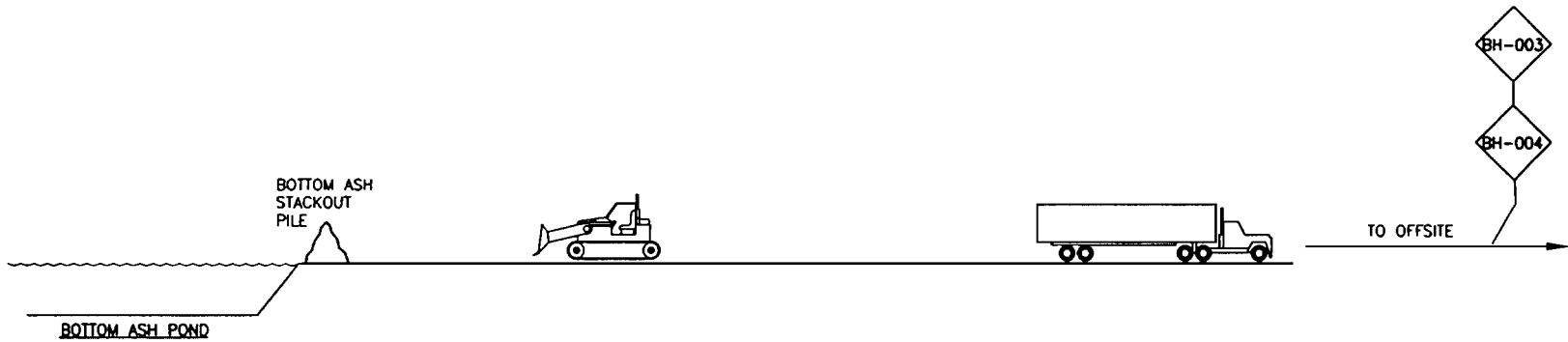
GYPSUM HANDLING PROCESS FLOW DIAGRAM

Source: ECT, 1996.





SLAG HANDLING



BOTTOM ASH HANDLING

LEGEND



DOCUMENT I.D.3.M.

SLAG AND BOTTOM ASH HANDLING PROCESS FLOW DIAGRAM

Source: ECT, 1996.



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DOCUMENT II.D.13 & 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.

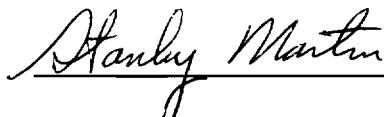
The emission units that comprise this Title V source will comply with future-effective applicable requirements on a timely basis.

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

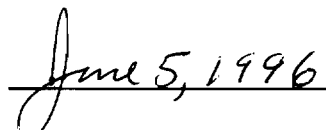
Periodic compliance statements are proposed to be submitted on an annual basis consistent with FDEP Rule 62-213.440(3)(b), F.A.C.

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



Date

DOCUMENT III.1.2

FUEL ANALYSES

BIG BEND STATION
UNITS 1, 2, AND 3 COAL ANALYSIS*

	Ash† (weight %)	Heat Content† (Btu/lb)	Sulfur† (weight %)	Moisture (weight %)
Mean	8.99	13,413	1.66	11.12
Minimum	7.12	13,204	1.12	8.44
Maximum	10.20	13,566	2.28	13.60
Range	3.08	362	1.14	5.16

*Data are based on weekly composite sampling and analysis for
May 1, 1995, through May 14, 1996.

†Dry basis.

Source: ECT, 1996.

BIG BEND STATION
UNITS 4 COAL ANALYSIS*

	Ash† (weight %)	Heat Content† (Btu/lb)	Sulfur† (weight %)	Moisture (weight %)
Mean	10.18	12,823	3.49	13.31
Minimum	8.21	12,546	3.10	10.50
Maximum	11.40	13,233	3.82	15.10
Range	3.19	687	0.72	4.60

*Data are based on weekly composite sampling and analysis for
May 1, 1995, through May 14, 1996.

†Dry basis.

Source: ECT, 1996.

BIG BEND STATION
NO. 2 FUEL OIL ANALYSIS

	Ash (weight %)	Heat Content (Btu/lb)	Sulfur (weight %)
Mean	0.002	137,766	0.20
Minimum	0.001	136,350	0.08
Maximum	0.002	139,020	0.39
Range	0.001	2,670	0.31

Source: ECT, 1996.

From: Tampa Electric Company
Central Testing Laboratory
P.O. Box 111
Tampa, Fl. 33601-0111
Ph. (813) 228-4111

Big Bend Unit 4 - Coal/Petroleum Coke Blend

January 5, 1995

To: File, Central Testing Lab
Bill Katzaras, Big Bend
John Yanik, Fuels
Janice Taylor, Envir. Plan.

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA20543 Location code: BB-TB-C
Location Description: Big Bend, Test Burn - Coal
Lab submittal date: 12/07/94 Time: 15:29
Sample Matrix: Coal

Sample Identification Information

Sample description: Pet Coke Test Burn, weekly composite
(continued): Run date: 11-10-94 thru 11-16-94

Parameter	Result	Units	MDL
Total Moisture	11.0	%	0.30
BTU in Coal, as Determined	12552	BTU/Lb.	1
Pounds SO2 / Million BTU, Coal	5.49	Lbs. SO2/MMBTU	
Ash, as Received	8.00	%	0.4
Ash, Dry Basis	8.99	%	0.40
BTU, as Received	11634	BTU/Lb.	100
BTU, Dry Basis	13072	BTU/Lb.	100
Sulfur, as Received	3.36	%	0.08
Sulfur, Dry Basis	3.78	%	0.08
BTU, Moisture-Ash Free, Calc.	14363	BTU/Lb.	100
Sulfur in Coal, as Determined	3.63	%	0.01

From: Tampa Electric Company
Central Testing Laboratory
P.O. Box 111
Tampa, Fl. 33601-0111
Ph. (813) 228-4111

Big Bend Unit 4 - Coal/Petroleum Coke Blend

January 5, 1995

To: File, Central Testing Lab
Bill Katzaras, Big Bend
John Yanik, Fuels
Janice Taylor, Envir. Plan.

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA20544 Location code: BB-TB-C
Location Description: Big Bend, Test Burn - Coal
Lab submittal date: 12/07/94 Time: 15:32
Sample Matrix: Coal

Sample Identification Information

Sample description: Pet Coke Test Burn, weekly composite
(continued): Run date: 11-17-94 thru 11-23-94

Parameter	Result	Units	MDL
Total Moisture	11.9	%	0.30
BTU in Coal, as Determined	12618	BTU/Lb.	1
Pounds SO2 / Million BTU, Coal	5.39	Lbs. SO2/MMBTU	
Ash, as Received	7.97	%	0.4
Ash, Dry Basis	9.05	%	0.40
BTU, as Received	11505	BTU/Lb	100
BTU, Dry Basis	13059	BTU/Lb.	100
Sulfur, as Received	3.27	%	0.08
Sulfur, Dry Basis	3.71	%	0.08
BTU, Moisture-Ash Free, Calc.	14358	BTU/Lb.	100
Sulfur in Coal, as Determined	3.58	%	0.01

From: Tampa Electric Company Big Bend Unit 3 - Coal/Petroleum Coke Blend
Laboratory Services Department
5012 Causeway Blvd. Tampa, FL 33597
H.R.S. Certification # E54272
D.E.P. Comprehensive QA Plan #910140

April 9, 1996

To: Marty Duff, Air Programs, CES
Bil Katzaras, Big Bend

The following analytical results have been obtained for the indicated sample which was submitted to this laboratory:

Sample I.D. AA28896 Location code: BB-TB-C
Project account code: G12
Location Description: Big Bend Test Burn - Unit 3
Sample collector: BIG BEND Sample collection date: 03/25/96
Lab submittal date: 03/26/96 Time: 09:01
Sample Matrix: Coal

Sample Identification Information
Sample description: Big Bend Unit 3 Test Burn - Pet Coke
(continued): 2/24/96 - 3/1/96

Parameter	Result	Units	MDL
Total Moisture	11.4	%	0.30
BTU in Coal, as Determined	12898	BTU/Lb.	1
Pounds SO2 / Million BTU, Coal	4.46	Lbs. SO2/MMBTU	
Ash, as Received	6.4	%	0.4
Ash, Dry Basis	7.24	%	0.4
BTU, as Received	12021	BTU/Lb	100
BTU, Dry Basis	13568	BTU/Lb.	100
Sulfur, as Received	2.83	%	0.08
Sulfur, Dry Basis	3.19	%	0.08
BTU, Moisture-Ash Free, Calc.	14627	BTU/Lb.	100
Sulfur in Coal, as Determined	3.03	%	0.01

DOCUMENT III.I.4

DESCRIPTION OF STACK SAMPLING FACILITIES

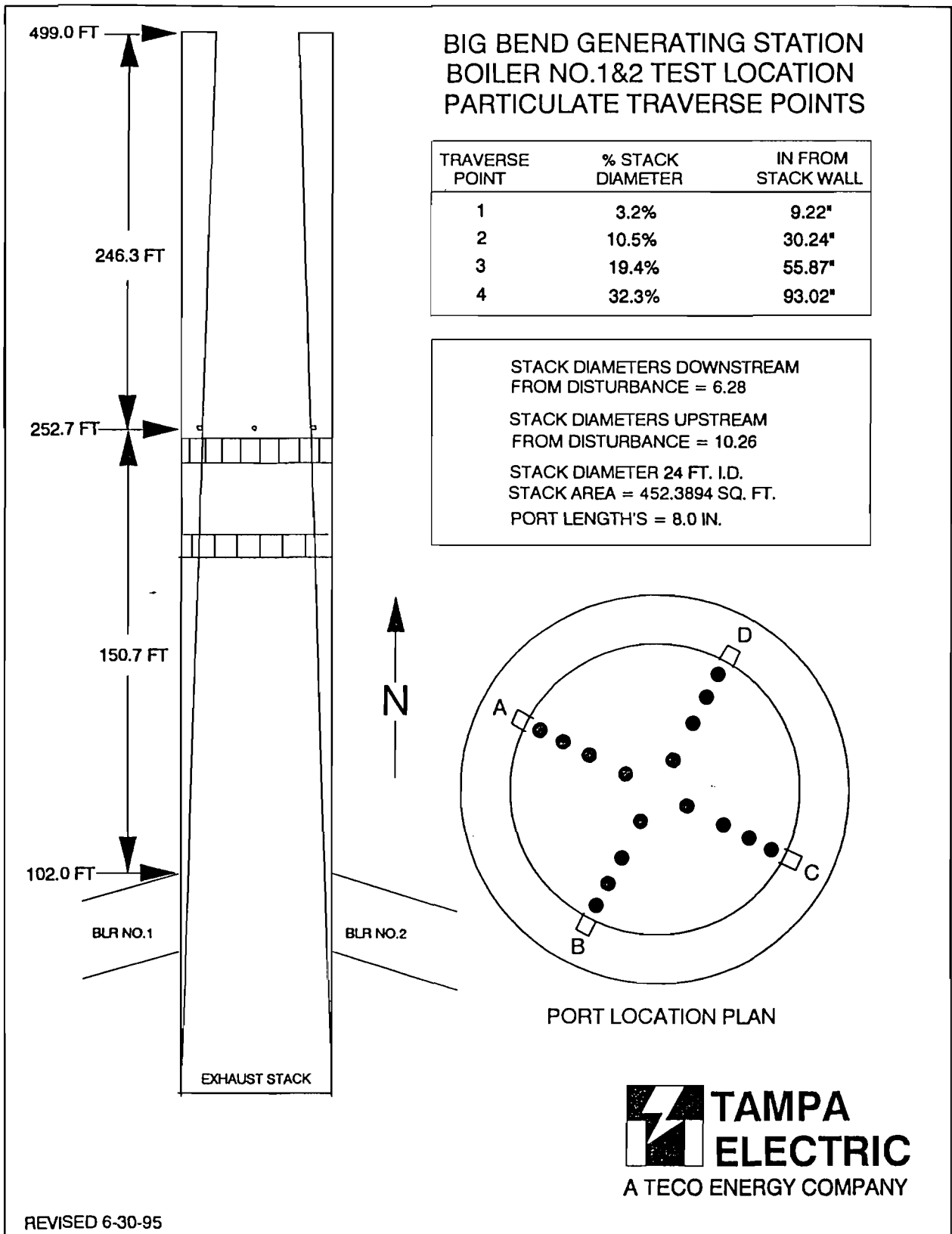


FIGURE 1

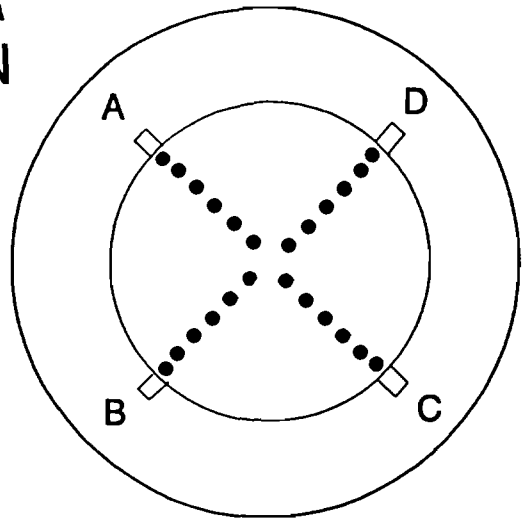
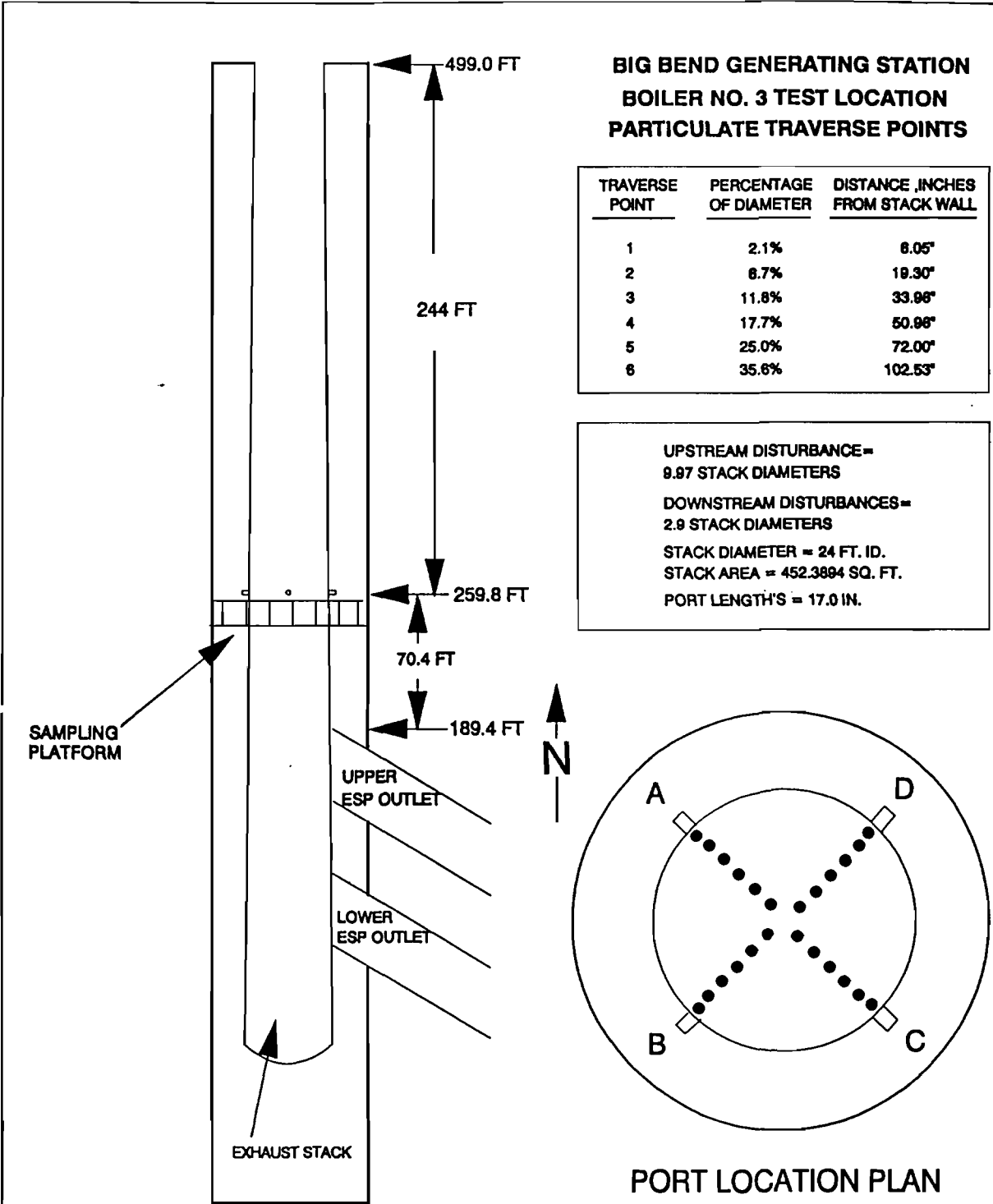
**BIG BEND GENERATING STATION
BOILER NO. 3 TEST LOCATION
PARTICULATE TRAVERSE POINTS**

TRAVERSE POINT	PERCENTAGE OF DIAMETER	DISTANCE, INCHES FROM STACK WALL
1	2.1%	6.05"
2	6.7%	19.30"
3	11.8%	33.98"
4	17.7%	50.98"
5	25.0%	72.00"
6	35.6%	102.53"

UPSTREAM DISTURBANCE =
9.97 STACK DIAMETERS

DOWNSTREAM DISTURBANCES =
2.9 STACK DIAMETERS

STACK DIAMETER = 24 FT. ID.
STACK AREA = 452.3894 SQ. FT.
PORT LENGTH'S = 17.0 IN.

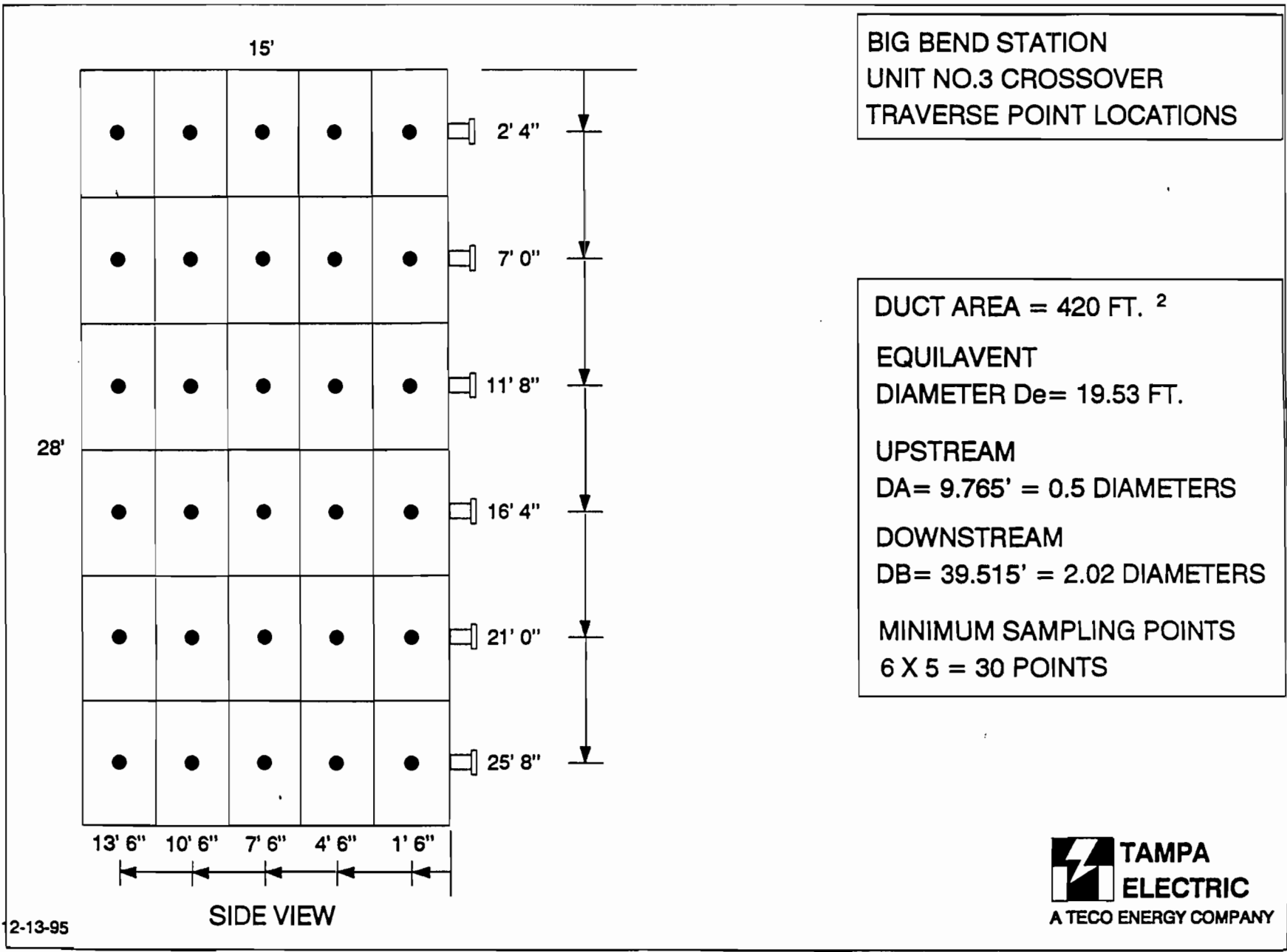


PORT LOCATION PLAN

FIGURE 1



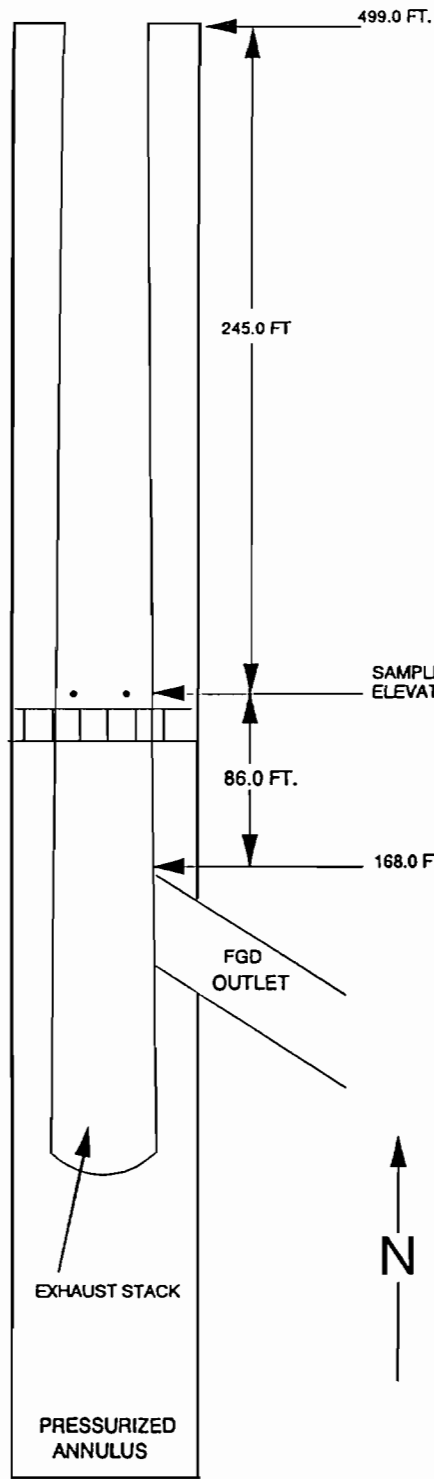
REVISED 7-5-95



**BIG BEND STATION
UNIT NO.3 CROSSOVER
TRAVERSE POINT LOCATIONS**

DUCT AREA = 420 FT. ²
 EQUIVALENT
 DIAMETER De = 19.53 FT.
 UPSTREAM
 DA = 9.765' = 0.5 DIAMETERS
 DOWNSTREAM
 DB = 39.515' = 2.02 DIAMETERS
 MINIMUM SAMPLING POINTS
 6 X 5 = 30 POINTS



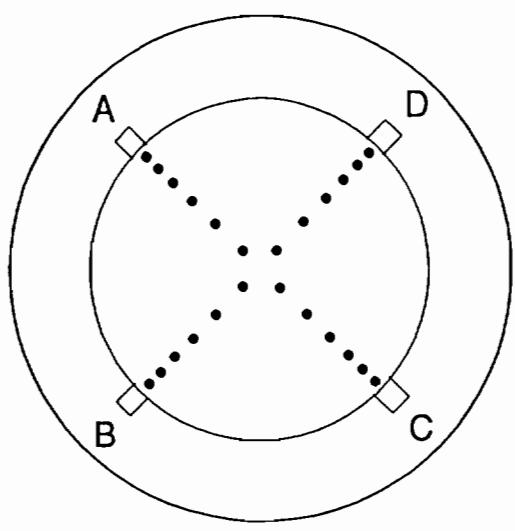


TRAVERSE POINT	PERCENTAGE OF DIAMETER	DISTANCE, INCHES FROM STACK WALL
1	2.1%	7.26 IN.
2	6.7%	23.16 IN.
3	11.8%	40.78 IN.
4	17.7%	61.17 IN.
5	25.0%	86.40 IN.
6	35.8%	123.03 IN.

UPSTREAM DISTURBANCE =
8.51 STACK DIAMETERS

DOWNSTREAM DISTURBANCES =
2.99 STACK DIAMETERS

STACK DIAMETER = 28.8 FT. ID.
STACK AREA = 652.9480 SQ. FT.
PORT LENGTH'S = 14.0 IN.



AERIAL VIEW

**BIG BEND GENERATING STATION
BOILER NO. 4 TEST LOCATION
PARTICULATE TRAVERSE POINTS**

FIGURE 1



REVISED 7-5-95

APPENDIX B
EMISSION RATE SUMMARY

Tampa Electric Company
 Big Bend Station – Emission Limited Pollutant Summary

Criteria Pollutants

Emissions Unit	Emission Rates (ton/yr)			
	SO ₂	NO _x	PM	CO
Unit 1	114,933.4	N/A	2,210.3	N/A
Unit 2	113,766.1	N/A	2,187.8	N/A
Unit 3	117,154.1	12,616.6	2,253.0	N/A
Unit 4	15,551.6	11,379.2	569.0	550.0
Limestone Handling	N/A	N/A	0.5	N/A
Fly Ash Handling	N/A	N/A	46.1	N/A
Totals	361,405.2	23,995.8	7,266.7	550.0

APPENDIX C

EMISSION INVENTORY WORKSHEETS

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

CS-001

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 1, Pulverized Fuel – Wet Bottom

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) * (1ton/ 2,000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Criteria Pollutant	Maximum Heat Input (MMBtu/hr)	Pollutant Emission Factor (lb/MMBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	4,037	6.500	26,240.5	114,933.4
PM ¹	4,037	0.300	1,211.1	2,210.3

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1995.
Maximum Heat Input	TEC, 1995.
Emission Factors; SO ₂ and PM	Allowable emission rates.

NOTES AND OBSERVATIONS

¹ Annual PM emission rate 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:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/12/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

CS-002

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 2, Pulverized Fuel – Wet Bottom

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) * (1 ton/ 2,000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Criteria Pollutant	Maximum Heat Input (mmBTU/hr)	Pollutant Emission Factor (lb/mmBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	3,996	6.500	25,974.0	113,766.1
PM ¹	3,996	0.300	1,198.8	2,187.8

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1995.
Maximum Heat Input	TEC, 1995.
Emission Factors; SO ₂ and PM	Allowable emission rates.

NOTES AND OBSERVATIONS

¹ Annual PM emission rate 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:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/12/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

CS – 003

EMISSION SOURCE TYPE

COAL COMBUSTION – CRITERIA POLLUTANTS

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Unit No. 3, Pulverized Fuel – Wet Bottom

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) * (1ton/ 2,000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Criteria Pollutant	Maximum Heat Input (mmBTU/hr)	Pollutant Emission Factor (lb/mmBtu)	Potential Emission Rates	
			(lb/hr)	(tpy)
SO ₂	4,115	6.500	26,747.5	117,154.1
PM ¹	4,115	0.300	1,234.5	2,253.0
NO _x	4,115	0.700	2,880.5	3,154.1

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	TEC, 1995.
Maximum Heat Input	TEC, 1995.
Emission Factors; SO ₂ , PM, and NO _x	Allowable emission rates.

NOTES AND OBSERVATIONS

¹ Annual PM emission rate 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:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/12/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

LSH-001

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: **Limestone Handling – Railcar/Truck Unloading**

Emission Control Method(s)/ID No.(s): **Baghouse/ DC-1**

Emission Point ID: **LSH-001**

Transfer Point ID(s): **LS-T1, LS-T2, LS-T3, LS-T4**

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: **4 Hrs/Day** **7 Days/Wk** **1,460 Hrs/Yr**

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Railcar/Truck Unloading to Hoppers	LS-T1	33,600	0.002	0.65	0.47
West Hopper to Conveyor LA1	LS-T2				
East Hopper to Conveyor LA2	LS-T3				
Conveyors LA1 and LA2 to Conveyor LB	LS-T4				

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Estimate based on high moisture content of limestone: ECT, 1995.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

LSH-002

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Limestone Handling – Conveyor LB to Conveyor LC

Emission Control Method(s)/ID No.(s): Baghouse/ DC-2

Emission Point ID: LSH-002 Transfer Point ID(s): LS-T5

EMISSION ESTIMATION EQUATIONS

$Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)$

$Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)$

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 4 Hrs/Day 7 Days/Wk 1,460 Hrs/Yr

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Conveyor LB to Conveyor LC (Two pickup points on drop)	LS-T5	800	0.002	0.02	0.01

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Estimate based on high moisture content of limestone: ECT, 1995.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

LSH-003

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Limestone Handling – Conveyor LD to Conveyor LE

Emission Control Method(s)/ID No.(s): Baghouse/ DC-3

Emission Point ID: LSH-003 Transfer Point ID(s): LS-T8

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 4 Hrs/Day 7 Days/Wk 1,460 Hrs/Yr

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Conveyor LB to Conveyor LC (Two pickup points on drop)	LS-T8	800	0.002	0.02	0.01

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Estimate based on high moisture content of limestone: ECT, 1995.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

LSH-004
LSH-005

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Limestone Handling – Conveyor LE to South Storage Silo

Emission Control Method(s)/ID No.(s): Baghouses/ DC-4,5

Emission Point ID: LSH-004, 005 Transfer Point ID(s): LS-T9

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 4 Hrs/Day 7 Days/Wk 1,460 Hrs/Yr

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Conveyor LE to South Silo	LS-T9	1,104	0.002	0.02	0.02

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Estimate based on high moisture content of limestone: ECT, 1995.

NOTES AND OBSERVATIONS

Exhaust flow rate and emission rates are for both baghouses combined.

DATA CONTROL

Data Collected by: T. Davis Date: 10/18/94

Evaluated by: T. Davis Date: 12/9/94

Data Entered by: T. Davis Date: 8/28/95

Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

LSH-006
LSH-007

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Limestone Handling – Conveyor LE to North Storage Silo

Emission Control Method(s)/ID No.(s): Baghouses/ DC-6,7

Emission Point ID: LSH-006, 007 Transfer Point ID(s): LS-T10

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

Operating Hours: 4 Hrs/Day 7 Days/Wk 1,460 Hrs/Yr

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Conveyor LE to North Silo	LS-T10	1,104	0.002	0.02	0.02

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Estimate based on high moisture content of limestone: ECT, 1995.

NOTES AND OBSERVATIONS

Exhaust flow rate and emission rates are for both baghouses combined.

DATA CONTROL

Data Collected by: T. Davis Date: 10/18/94

Evaluated by: T. Davis Date: 12/9/94

Data Entered by: T. Davis Date: 8/28/95

Reviewed by: Date:

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

FH-001

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Fly Ash Handling – From Units 1 and 2 or Trucks to Silo #1

Emission Control Method(s)/ID No.(s): Baghouse/ DC-8

Emission Point ID: FH-001 **Transfer Point ID(s):** FA-T1, FA-T2

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Units 1 and 2 or Trucks to Silo #1	FA-T1	20,081	0.03	5.16	22.62
Dry Transfer from Silo #1 to Trucks	FA-T2				

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Typical baghouse exit loading: ECT, 1995.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

FH-004

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Fly Ash Handling – From Units 1,2, and 3 to Silo #2

Emission Control Method(s)/ID No.(s): Baghouse/ DC-9

Emission Point ID: FH-004 Transfer Point ID(s): FA-T4, FA-T5

EMISSION ESTIMATION EQUATIONS

Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)

Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gr/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Units 1, 2, and 3 to Silo #2	FA-T4	20,081	0.03	5.16	22.62
Dry Transfer from Silo #2 to Trucks	FA-T5				

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Typical baghouse exit loading: ECT, 1995.

NOTES AND OBSERVATIONS

Silo #2 will receive fly ash from a maximum of two units at one time.

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company – Big Bend Station

FH-006

EMISSION SOURCE TYPE

MATERIAL TRANSFER – CONTROLLED EMISSION SOURCES

Figure:

FACILITY AND SOURCE DESCRIPTION

Emission Source Description: Fly Ash Handling – From Unit 4 to Silo #3

Emission Control Method(s)/ID No.(s): Baghouse/ DC-10

Emission Point ID: FH-006 Transfer Point ID(s): FA-T6, FA-T7

EMISSION ESTIMATION EQUATIONS

$Emission (lb/hr) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr)$

$Emission (tpy) = Flow Rate (scfm) * (grain/scf) * (1 lb/7,000 grain) * (60 min/hr) * hrs/yr * (1 ton/2000 lb)$

Source: ECT, 1995.

INPUT DATA AND EMISSIONS CALCULATIONS

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

Transfer Points Controlled By Common Control Device	Transfer Point ID No.	Exhaust Flow Rate (scfm)	Exit Grain Loading (gt/scf)	Potential PM Emission Rates	
				(lb/hr)	(tpy)
Unit 4 to Silo #3	FA-T6	1,200	0.02	0.21	0.90
Dry Transfer from Silo #3 to Trucks	FA-T7				

SOURCES OF INPUT DATA

Parameter	Data Source
Operating Hours	Estimated: TEC, 1995.
Exhaust Flow Rate	TEC, 1995.
Exit Grain Loading	Typical baghouse exit loading: ECT, 1995.

NOTES AND OBSERVATIONS

DATA CONTROL

Data Collected by:	T. Davis	Date:	10/18/94
Evaluated by:	T. Davis	Date:	12/9/94
Data Entered by:	T. Davis	Date:	8/28/95
Reviewed by:		Date:	

APPENDIX D
CURRENT PERMITS



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

RECEIVED

DEC 28 1992

ENVIRONMENTAL
PLANNING

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

Mr. Lynn F. Robinson
Environmental Planning
Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

DER File No.: A029-219924
County: Hillsborough

Enclosed is Permit Number A029-219924 to operate a 4037 MMBTU/hr. coal-fired steam generator designated as Big Bend Station 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;

Enclosed Paper

(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.

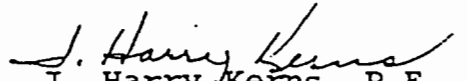
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of 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/BK/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 DEC 23 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

DEC 23 1992
Date

Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Carol M. Browner, Secretary



PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-219924
County: Hillsborough
Expiration Date: 12/01/97
Project: Big Bend 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 4037 MMBTU/hr. coal-fired steam generator designated as Big Bend Station Unit No. 1. This "wet" bottom boiler was manufactured by Riley Stoker Corporation and is an opposed-fired turbo boiler. It shares a common stack with Big Bend Station Unit No. 2. The generator nameplate capacity is 445.5 MW.

Particulate emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator manufactured by Western Precipitator Division, Joy Manufacturing Corporation.

Location: Big Bend Road, Ruskin

UTM: 17-361.9 E 3074.0 N NEDS NO: 0039 Point ID: 01

Replaces Permit No.: A029-140721

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-219924
PROJECT: Big Bend Station Unit No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
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.]
3. Except as provided in Specific Condition No. 5, visible emissions from this source shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%. [Rule 17-2.600(5)(a)1., F.A.C.]
4. Big Bend Station Units 1, 2, and 3, in total, shall not emit more than 31.5 tons per hour of sulfur dioxide on a three-hour average, but in no case to exceed a two-hour average emission of 6.5 pounds of sulfur dioxide per million Btu heat input. Units 1, 2, and 3, in total, shall not emit more than 25 tons per hour of sulfur dioxide on a 24 hour average. [Rule 17-2.600(5)(a)3.b.(ii), F.A.C.]
5. Excess Emissions:
 - A) Excess emissions from existing fossil fuel steam generators resulting from startup or shut down 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 (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 are minimized. Visible emissions above 60% opacity are allowed for not more than four, 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 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.]
 - 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 are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for a longer duration. [Rule 17-2.250(1), F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-219924
PROJECT: Big Bend 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, shut down, or malfunction are 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 December 21, 1991, 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 after particulate testing. 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.

7. This source shall be stack tested for sulfur dioxide at intervals of 12 months from the date of December 21, 1991, 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 non-particulate and visible emissions compliance tests conducted while fly ash collected by the precipitator is being re-injected into the boiler

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-219924
PROJECT: Big Bend Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

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.

9. Compliance with the SO₂ emission standards set forth by Specific Condition No. 4 shall be demonstrated by:

- A) Conducting an annual stack test, using an approved DER Method, with a fuel analysis for the coal burned to show compliance with the two hour standard (two hour average emissions) of 6.5 pounds of sulfur dioxide per million Btu heat input.
- B) Not charging the fuel bunkers of units 1 through 3 with any coal with a composite sulfur content that would produce emissions greater than 6.5 pounds of sulfur dioxide per million Btu heat input to show continuing compliance with the two hour standard. This can be accomplished in part by blending various grades of coal on-site prior to charging into the fuel bunkers located in the tripper room.
- C) Daily composite fuel sampling and analysis to show compliance with the emission cap for units 1 through 3 of 25 tons of sulfur dioxide per hour on a 24-hour average. The following equation shall be used:

$$\text{SO}_2 = \frac{\text{\#S}}{\text{MMBTU}} \times \frac{2 \text{\#SO}_2}{\text{\#S}} \times \frac{\text{MMBTU}}{\text{MWH}} \times .95 \times \frac{\text{MWH}}{\text{day}} \times \frac{\text{tons SO}_2}{2000 \text{ lbs. SO}_2}$$

- Where:
- (i) - comes from the daily fuel analysis
 - (ii) - conversion factor
 - (iii) - heat rate from the previous month's heat rate calculation
 - (iv) - conversion factor describing percent S in the coal that is converted to gaseous SO₂
 - (v) - daily generation from station logs
 - (vi) - conversion factor

This equation shall be used and the calculations completed for each of the units 1 through 3. This information shall be submitted to the Environmental Protection Commission of Hillsborough County on a quarterly basis no later than 45 days following the calendar quarter. If an exceedance of this

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-219924
PROJECT: Big Bend Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

standard occurs, then the permittee shall report this event to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 24 hours of the determination.

- D) Adhering to the study, previously submitted, that demonstrates by a statistical analysis, that the 31.5 tons of SO₂ per hour on a three-hour average is being met. This study provides reasonable assurance that a daily sample can be used to demonstrate compliance with the 3 hour emission cap.

10. The maximum permitted heat input rate for this source is 4037 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.]

11. 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.]

12. 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

PERMIT/CERTIFICATION NO.: AO29-219924
PROJECT: Big Bend Station Unit No. 1

SPECIFIC CONDITIONS: (continued)

13. 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.]

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 to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

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

16. To renew this operating permit, a completed application, in quadruplicate, shall be submitted to the Environmental Protection Commission of Hillsborough County by October 1, 1997. [Rules 17-4.050(2) and 17-4.090(1), F.A.C.]

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


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

7 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 household 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 therefor, 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;
- (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.

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.

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.



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

Dr. Richard Garity, Deputy Assistant Secretary

RECEIVED

NOTICE OF PERMIT

NOV 27

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT ISSUANCE

ENVIRO
PLA:

November 19, 1990

In the Matter of an Application
for Permit by:

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

DER File No. A029-179912

Hillsborough County

Enclosed is Permit Number A029-179912 to Operate Big Bend 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
Mr. Robert Glover
at 306 Noonan Branch Rd.
Apollo Beach, FL. 33572

CERTIFICATE OF SERVICE

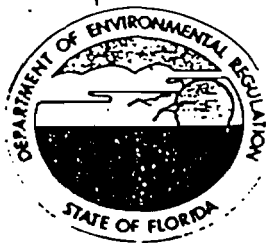
This is to certify that this NOTICE OF PERMIT and all
copies were mailed before the close of business on
NOV 19 1990 to the listed persons.

FILED 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.

Charilyn Quispe
Clerk

NOV 19 1990
Date



Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347 • 813-623-5501

Bob Martinez, Governor

Dale Twachtmann, Secretary

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

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A029-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend 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 3,996 MM Btu/hr. coal fired steam generator designated as Unit No. 2 at the Big Bend Station. This "wet" bottom boiler was manufactured by Riley-Stoker and is an opposed-fired turbo boiler. Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator manufactured by Western Precipitator, Division, Joy Manufacturing Corporation.

Location: Big Bend Road, Ruskin

UTM: 17-361.9 E 3075.0 N NEDS NO: 0039 Point ID: 02

Replaces Permit No.: A029-66329

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

PERMIT/CERTIFICATION
Permit No: A029-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend Station
Unit No. 2

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
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.]
3. Except as provided in specific condition #5; visible emissions from this source shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%. [Rule 17-2.600(5)(a)1., F.A.C.]
4. Big Bend Station Units 1, 2, and 3, in total, shall not emit more than 31.5 tons per hour of sulfur dioxide on a three hour average, but in no case to exceed a two hour average emission of 6.5 pounds of sulfur dioxide per million Btu heat input. Units 1, 2, and 3, in total, shall not emit more than 25 tons per hour of sulfur dioxide on a 24 hour average. [Rule 17-2.600(5)(a)3.b.(ii), F.A.C.]
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 (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 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 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
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: A029-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend 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 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.].
- 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 December 31, 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: AO29-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend 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 December 31, 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.]

9. Compliance with the SO₂ emission standards set forth by Specific Condition #4 shall be demonstrated by:

- A. Conducting an annual stack test, using an approved DER Method, with a fuel analysis for the coal burned to show compliance with the two hour standard of 6.5 pounds of sulfur dioxide per million Btu heat input.
- B. Not charging the fuel bunkers of units 1 through 3 with any coal with a composite sulfur content that would produce emissions greater than 6.5 pounds of sulfur dioxide per million Btu heat input to show continuing compliance with the two hour standard. This can be accomplished in part by blending various grades of coal on-site prior to charging into the fuel bunkers located in the tripper room.

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

PERMIT/CERTIFICATION
 Permit No: A029-179912
 County: Hillsborough
 Expiration Date: 11/21/95
 Project: Big Bend Station
 Unit No. 2

SPECIFIC CONDITIONS:

C. Daily composite fuel sampling and analysis to show compliance with the emission cap for units 1 through 3 of 25 tons of sulfur dioxide per hour on a 24 hour average. The following equation shall be used:

$$SO_2 = \frac{\#S}{MMBTU} \times \frac{2 \#SO_2}{\#S} \times \frac{MMBTU}{MWH} \times .95 \times \frac{MWH}{day} \times \frac{tons \ SO_2}{2000 \ lbs. \ SO_2}$$

- Where:
- (i) - comes from the daily fuel analysis
 - (ii) - conversion factor
 - (iii) - heat rate from the previous month heat rate calculation
 - (iv) - conversion factor describing percent S in the coal that is converted to gaseous SO₂ (reference 6/25/76 DER-TECO stipulation)
 - (v) - daily generation from station logs
 - (vi) - conversion factor

This equation shall be used and the calculations completed for each of the units 1 through 3. This information shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation on a quarterly basis no later than 45 days following the calendar quarter. If an exceedance of this standard occurs, then the permittee shall report this event to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 24 hours of the determination.

D. Adhering to the study, previously submitted, that demonstrates by statistical analysis, that the 31.5 tons of SO₂ per hour on a three hour average is being met. This study provides reasonable assurance that a daily sample can be used to demonstrate compliance with the 3 hour emission cap.

PERMITTEE:
Tampa Electric Company
P.O. Box 111
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PERMIT/CERTIFICATION
Permit No: A029-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend Station
Unit No. 2

SPECIFIC CONDITIONS:

10. The maximum permitted heat input rate for this source is 3,996 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.]

11. 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.]

12. 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: A029-179912
County: Hillsborough
Expiration Date: 11/21/95
Project: Big Bend Station
Unit No. 2

SPECIFIC CONDITIONS:

13. 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.]

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:

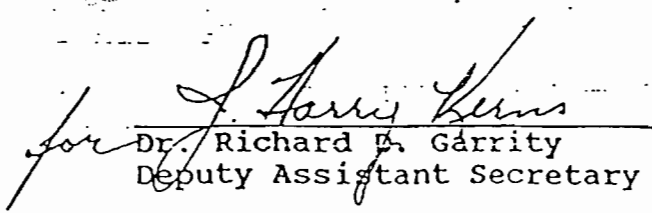
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

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

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

16. Four applications to renew this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County by September 22, 1995. [Rules 17-4.050(2) and 17-4.090(1), F.A.C.]

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Dr. Richard D. Garrity
Deputy Assistant Secretary

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 403.173, 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.



Department of Environmental Protection

RECEIVED

AUG 1 1984

Lawton Chiles
Governor

Southwest District
3804 Coconut Palm Drive
Tampa, Florida 33619

7/31
ENVIRONMENTAL
Virginia B. Wethereil
Secretary
Virginia B. Wethereil

NOTICE OF PERMIT AMENDMENT

Mr. Patrick A. Ho, P.E.
Manager, Environmental Permitting
Tampa Electric Company
P.O. Box 111
Tampa, FL 33601-0111

Dear Mr. Ho:

Re: Hillsborough County - AP
A029-279911, PATS Processing No. 254096

On July 5, 1994, the Department received your request to amend air pollution permit A029-179911 which is for Big Bend Station Unit No. 3. Specifically, the request related to the recent legislation involving nitrogen oxide compliance limits pursuant to 40 CFR 75. Therefore, as requested permit A029-179911 is hereby amended as follows:

Specific Condition No. 5

From: The nitrogen oxides emission rate (expressed as NO₂) from this source shall not exceed 0.70 pound per million Btu heat input. [Rule 17-2.600(5)(a)4.d., F.A.C.].

To: The nitrogen oxides emission rate (expressed as NO₂) from this source shall not exceed 0.70 pounds per million Btu heat input based upon a 30-day rolling average. [Rule 17-296.405(1)(d)4., F.A.C.]

Specific Condition No. 10

From: This source shall be stack tested for nitrogen oxides (expressed as NO₂) at intervals of 12 months from the date of August 14, 1989, 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.

To: This source shall demonstrate compliance for nitrogen oxides (expressed as NO₂) based upon a 30-day rolling average. The methodology to be used will follow the criteria set forth in 40 CFR 60, Subpart Da. the calculations shall be consistent with the equations in 40 CFR 60, Appendix A, Reference Method 19, Section 4.2. (July 1, 1993). Data collected during boiler operating days will be used to calculate the 30-day rolling average except during periods of start-up, shut down, or malfunction, consistent with the provisions of Rule 17-210.700, F.A.C.

For the purpose of calculating a 30-day rolling average, a boiler operating day is defined as a 24-hour period (between 12:01 a.m. and 12:00 midnight) during which fossil fuel is combusted in a steam operating unit for the entire 24-hours.

The continuous emission monitor shall meet the quality assurance requirements and performance specifications contained 40 CFR 75.

A report shall be submitted to both the Florida Department of Environmental Protection and the Environmental Protection Commission of Hillsborough County within 30 days following each calendar quarter. This report shall contain the 30-day rolling average, all time periods of boiler operation as well as a statement of CEM and/or boiler malfunction, start-up or shutdown.

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 amendment. 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;

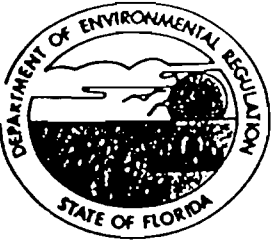
- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

- (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
- (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 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 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 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 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



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

NOTICE OF PERMIT

RECEIVED

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

AUG 30 1990

ENVIRONMENTAL
PLANNING

August 30, 1990

In the Matter of an Application
for Permit by:

DER File No. A029-179911
Hillsborough County

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

Enclosed is Permit Number A029-179911 to Operate Big Bend Station, No. 3 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;

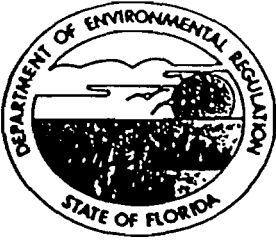
(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(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.



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
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend 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 a part hereof and specifically described as follows:

For the operation of a 4115 MMBTU/hr. coal fired steam generator designated as Unit No. 3 at the Big Bend Station. This "wet" bottom boiler was manufactured by Riley-Stoker and is an opposed-fired turbo boiler. The generator has a nameplate capacity of 445.5 MW. Particulate matter emissions generated during the operation of the unit are controlled by a dry electrostatic precipitator manufactured by Research-Cottrell, Inc.

Location: Big Bend Road, Ruskin

UTM: 17-361.9 E 3075.0 N NEDS NO: 0039 Point ID: 03

Replaces Permit No.: A029-93937

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

PERMIT/CERTIFICATION
Permit No: A029-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend Station
Unit No. 3

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Except as provided in Specific Condition #6; 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.].
3. Except as provided in Specific Condition #6; Visible Emissions from this source shall not exceed 20% opacity except for one six-minute period per hour during which opacity shall not exceed 27%. [Rule 17-2.600(5)(a)1., F.A.C.].
4. Big Bend Station Units 1, 2, and 3, in total, shall not emit more than 31.5 tons per hour of sulfur dioxide on a three hour average, but in no case to exceed a two hour average emission of 6.5 pounds of sulfur dioxide per million Btu heat input. Units 1, 2, and 3, in total, shall not emit more than 25 tons per hour of sulfur dioxide on a 24 hour average. [Rule 17-2.600(5)(a)3.b.(ii), F.A.C.].
5. The nitrogen oxides emission rate (expressed as NO₂) from this source shall not exceed 0.70 pound per million Btu heat input. [Rule 17-2.600(5)(a)4.d., F.A.C.].
6. 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 (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 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 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
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend Station
Unit No. 3

SPECIFIC CONDITIONS:

7. 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 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.]. 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.].

8. 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 14, 1989, 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 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 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.

9. This source shall be stack tested for sulfur dioxide at intervals of 12 months from the date of August 14, 1989, 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.

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

PERMIT/CERTIFICATION
Permit No: AO29-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend Station
Unit No. 3

SPECIFIC CONDITIONS:

10. This source shall be stack tested for nitrogen oxides (expressed as NO₂) at intervals of 12 months from the date of August 14, 1989, 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.

11. 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 Department of Environmental Regulation or 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.].

12. Compliance with the SO₂ emission standards set forth by Specific Condition #4 shall be demonstrated by:

A. Conducting an annual stack test, using an approved DER Method, with a fuel analysis for the coal burned to show compliance with the two hour standard of 6.5 pounds of sulfur dioxide per million Btu heat input.

B. Not charging the fuel bunkers of units 1 through 3 with any coal with a composite sulfur content that would produce emissions greater than 6.5 pounds of sulfur dioxide per million Btu heat input to show continuing compliance with the two hour standard. This can be accomplished in part by blending various grades of coal on-site prior to charging into the fuel bunkers located in the tripper room.

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

PERMIT/CERTIFICATION
 Permit No: A029-179911
 County: Hillsborough
 Expiration Date: 08/30/95
 Project: Big Bend Station
 Unit No. 3

SPECIFIC CONDITIONS:

C. Daily composite fuel sampling and analysis to show compliance with the emission cap for units 1 through 3 of 25 tons of sulfur dioxide per hour on a 24 hour average. The following equation shall be used:

$$SO_2 = \frac{\text{(i) \#S}}{\text{MMBTU}} \times \frac{\text{(ii) 2 \#SO}_2}{\text{\#S}} \times \frac{\text{(iii) MMBTU}}{\text{MWH}} \times .95 \times \frac{\text{(v) MWH}}{\text{day}} \times \frac{\text{(vi) tons SO}_2}{\text{2000 lbs. SO}_2}$$

- Where:
- (i) - comes from the daily fuel analysis
 - (ii) - conversion factor
 - (iii) - heat rate from the previous month heat rate calculation
 - (iv) - Conversion factor describing percent S in the coal that is converted to gaseous SO2 (reference 6/25/76 DER-TECO Stipulation)
 - (v) - daily generation from station logs
 - (vi) - conversion factor

This equation shall be used and the calculations completed for each of the units 1 through 3. This information shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation on a quarterly basis no later than 45 days following the calendar quarter. If an exceedance of this standard occurs, then the permittee shall report this event to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County within 24 hours of the determination.

D. Adhering to the study, previously submitted, that demonstrates by statistical analysis, that the 31.5 tons of SO2 per hour on a three hour average is being met. This study provides reasonable assurance that a daily sample can be used to demonstrate compliance with the 3 hour emission cap.

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A029-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend Station
Unit No. 3

SPECIFIC CONDITIONS:

13. The maximum permitted heat input rate for this source is 4,115 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 Department of Environmental Regulation or 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.].

14. 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.].

15. 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: AO29-179911
County: Hillsborough
Expiration Date: 08/30/95
Project: Big Bend Station
Unit No. 3

SPECIFIC CONDITIONS:

16. 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 which exceed the limitations of specific conditions #3 and #6. 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.].

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

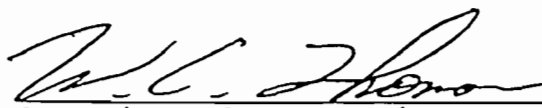
18. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapter 17-2, or any other requirements under federal, state, or local law. [Rule 17-2.210, F.A.C.]

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

Issued this 29 day of

August, 1990.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION

For 
Dr. Richard D. Garrity
Deputy Assistant Secretary

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 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 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.

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In Re: Tampa Electric Company)
Big Bend Station Unit 4)
Modification of Conditions)
of Certification PA 79-12)
Hillsborough County, Florida)

DER Case No. PA 79-12C&D
OGC Case No. 94-0914

**FINAL ORDER MODIFYING
CONDITIONS OF CERTIFICATION**

On August 17, 1981, the Governor and Cabinet, sitting as the Siting Board, issued a final order approving certification for Tampa Electric Company's (TECO's) Big Bend Station Unit 4. That certification order approved the construction and operation of a 486 MW (gross) coal-fired facility and associated facilities located in Hillsborough County, Florida.

On January 13, 1995, TECO filed a request to amend the conditions of certification pursuant to Section 403.516(1)(b), Florida Statutes. TECO requested that the condition be modified to approve several changes in the project design and operation of the coal yard.

Copies of TECO's proposed modification were distributed to all parties to the certification proceeding and made available for public review in June, 1995. On June 30, 1995, a Notice of Intent to Issue Proposed Modification of Power Plant Certification was published in the Florida Administrative Weekly. As of June 27, 1995, all parties to the original proceeding had received copies of the notice. The notice specified that a hearing would be held if a party to the original certification hearing objected within 45 days from receipt of the proposed notice of modification or if a person whose substantial interests would be affected by the proposed modification objected in

Post-It Brand fax transmittal memo 7671	
1 of pages	65
From Tom Davis	ECT
To Tom Davis	ECT
Dept. Phone #	EX 40372
Fax #	(904) 332-6722 (Ext) 228-1804

writing within 30 days after issuance of the public notice. One objection to the proposed modifications as noticed was received by the Department, but it was denied as untimely. Accordingly, in the absence of any timely objection,

IT IS ORDERED:

The proposed changes to TECO Big Bend Station as described in the January 13, 1995, requests for modification are APPROVED. Pursuant to Section 403.516(1)(b), F.S., the conditions of certification for the TECO Big Bend Station are MODIFIED as follows:

Condition I.A.

1. Based on a maximum heat input of 4,330 million BTU per hour, stack emissions from Big Bend Unit 4 shall not exceed the following when burning coal or a coal/petroleum coke blend:

a. - d. no change.

2. no change

3.

a. ~~The permittee shall not cause to be discharged into the atmosphere~~ Pursuant to Chapter 1-3.62 Rules of the Environmental Protection Commission of Hillsborough County, visible emissions shall not exceed 20% opacity for any unconfined emission unit in the fuel yard. Unconfined emissions as defined by Rule 62-296.200, F.A.C., shall include the static fuel piles, etc. coal-fuel processing or conveying equipment, coal-fuel storage system, coal-fuel transfer and loading system processing coal, visible emissions which exceed 20 percent opacity.

Pursuant to Rule 62.296.711(2), F.A.C., visible emissions shall not exceed 5 percent opacity for the remaining emission units in the fuel yard. Initial and subsequent visible emissions compliance tests shall be demonstrated using EPA Reference Method 9, 40 CFR Part 60, Appendix A. Visual

Determination of Fugitive Emissions from Material Sources (July 1, 1993 version). All testing shall be done within 90 days of completing reconfiguration of the fuel yard, and prior notification of testing shall be submitted in writing at least 15 days beforehand to the EPC of Hillsborough County.

Particulate emissions shall be controlled by use of control devices.

b. (No change)

c. The coal fuel pile operations are subject to Rule 6217-296.310(3), F.A.C., Unconfined Emissions of Particulate Matter. Reasonable precautions to minimize unconfined particulate matter shall be in accordance with Rule 6217-296.310(3)(c), F.A.C.; and, may include, but shall not be limited to, the coating of roads and construction sites used by contractors and regrassing or watering areas of disturbed coal fuel.

d. From each coal fuel transloading of source/emission point (i.e., off-loading and loading of coal fuel), the maximum annual transloading transfer of coal fuel shall not exceed 4,000 tons, 24-hour rolling average.

e. From each coal fuel transloading source/emissions point (i.e., off-loading and loading of coal fuel), the maximum annual transloading transfer of coal fuel shall not exceed 1,428,030 tons.

f. The number of railcars and trucks and the quantity of coal fuel loaded by each coal fuel transloading source/emission point (i.e., off-loading and loading of coal fuel) shall be recorded, maintained, and kept on file for a minimum of two years. The annual quantity of coal fuel loaded by each coal fuel transloading source/emission shall be submitted in Annual Operation Report (AOR) to the Environmental Protection Commission of Hillsborough County by March 1 of each year for the previous year's operation.

4. - 11. no change

12. Fuels fired shall consist of coal or a coal/petroleum coke blend containing a maximum of 20.0 percent petroleum coke by weight. The sulfur content of the petroleum coke shall not exceed 6.0 percent by weight (dry basis). Vanadium content of the mineral ash from the petroleum coke fired shall not exceed 35.0 percent by weight (ignited basis).

13. Gravimetric instrument data verifying that the 20.0 percent maximum petroleum coke by weight basis has not been exceeded shall be maintained and submitted to the Department's Southwest District Office and the Environmental Protection Commission of Hillsborough County (EPCHC) with each annual operating report.

14. Pursuant to Rule 62-212.200(2)(d), F.A.C., the actual emissions of the No. 4 Unit shall equal the representative actual emissions as defined in 40 CFR 52.21(i)(33). The Permittee shall maintain and submit to the Department and EPCHC on an annual basis for a period of five years from the date the unit begins firing petroleum coke, data demonstrating that the operational change did not result in an emissions increase.

Any party to this Notice 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 of Environmental Protection in the Office of General, 3900 Commonwealth Blvd., Tallahassee, Florida 32399-3000; 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 that the Final Order is filed with the Department of Environmental Protection.

DONE AND ENTERED this 13th day of September, 1995 in Tallahassee,
Florida.

STATE OF FLORIDA, DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Virginia B. Wetherrell
VIRGINIA B. WETHERRELL
SECRETARY
3900 Commonwealth Boulevard
Tallahassee, FL 32399-3000



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

RECEIVED

JUL 11 1988

JUL 15 1988

4APT/APB-aes

ENVIRONMENTAL
PLANNING

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

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

Re: Tampa Electric Company, Big Bend Unit No. 4 (PSD-FL-040)

Dear Mr. Williams:

This is in response to your May 27, 1988, letter regarding the generating capacity restrictions contained in your federal PSD permit PSD-FL-040. We have reviewed your request to remove these restrictions and find that the changes will not in any way reduce the enforceability of the permit or affect the level of emissions generated. We hereby modify your federal PSD permit PSD-FL-040 as follows:

Part I: Specific Conditions

1. The proposed steam generating station shall be constructed and operated in accordance with the capabilities and specifications of the application, and the heat input to the No. 4 boiler shall not exceed 4330 mmBtu/hr.

Please be advised that the modification to your PSD permit herein described shall become a binding part of permit PSD-FL-040. This permit modification shall become effective upon receipt of this letter.

If you have any questions or comments regarding this permit modification, please contact me at (404) 347-4727 or Mr. Bruce P. Miller of my staff at (404) 347-2864.

Sincerely yours,

Greer C. Tidwell
Regional Administrator

cc: Steve Smallwood, Chief
Bureau of Air Quality
Florida Department of Environmental Regulation



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

OCT 9 1985

RECEIVED

REF: 4APT-AP

OCT 14 1985

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

ENVIRONMENTAL
PLANNING

Mr. A. Spencer Autry, Manager
Environmental Planning
Tampa Electrical Company
P. O. Box 111
Tampa, Florida 33601

Re: PSD-FL-040, Permit Modification for TECO Big Bend Unit 4

Dear Mr. Autry:

On October 15, 1981, EPA issued a Prevention of Significant Deterioration (PSD) construction permit to the Tampa Electrical Company (TECO) for the construction of a coal-fired utility boiler (Big Bend Unit 4) near Ruskin, Florida. In the determinations for the permit to construct, a conservative, yet erroneous emission factor for carbon monoxide was provided by your company which EPA relied upon in issuing the final permit for this source. By letter dated January 30, 1985, TECO informed the Florida Department of Environmental Regulation (DER) that an error had been identified in the PSD application emissions estimate for carbon monoxide. Subsequently, the Florida DER recommended to EPA that the federal PSD permit be modified to correct the carbon monoxide emissions limit in the permit from 0.014 lb/MMBTU, 61 lbs/hr to 0.029 lb/MMBTU, 124 lbs/hr. On March 12, 1985, EPA responded to the DER recommendation by requesting that a public notice be published prior to modifying the federal PSD permit. The public notice was published in the Tampa Tribune on April 20, 1985, and the comment period expired thirty days later on May 20, 1985. No comments were received regarding the proposed permit modifications.

EPA has, in conjunction with the DER, determined that the proposed increase in carbon monoxide emissions will not affect the ambient air quality analysis, or the Best Available Control Technology (BACT) determination made during the initial review of the proposed coal-fired utility.

EPA hereby modifies Table 1-Allowable Emission Limits of the federal PSD construction permit PSD-FL-040 as follows:

FACILITY	POLLUTANT - CO			
	FROM:	lb/MMBTU	lb/hr	TO: lb/MMBTU lb/hr
1. Unit 4 Boiler (4330 MMBTU/hr) Continuous Limit	0.014	61	0.029	124

Please note that this modification is effective upon receipt of this letter and does not alter other conditions of this permit as stipulated in General Condition 10 of your permit. A Federal Register notice will be published in the near future announcing this permit modification.

If you have any questions or comments regarding this modification, please contact me.

Sincerely yours,

John A. Little, Deputy for
Jack E. Ravan
Regional Administrator

cc: Mr. Clair Fancy, P. E.
Deputy Director
Bureau of Air Quality Management
Florida Dept. of Environmental Regulation

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV
345 COURTLAND STREET
ATLANTA, GEORGIA 30365

File PA 17

Big Bend 4

PERMIT TO CONSTRUCT UNDER THE RULES FOR THE
PREVENTION OF SIGNIFICANT DETERIORATION OF AIR QUALITY

Pursuant to and in accordance with the provisions of Part C, Subpart 1 of the Clean Air Act, as amended, 42 U.S.C. § 7470 et seq., and the regulations promulgated thereunder at 40 C.F.R. § 52.21, as amended at 45 Fed. Reg. 52676, 52735-41 (August 7, 1980),

Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601

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OCT 19 1981

ENVIRONMENTAL
PLANNING

is hereby authorized to construct/modify a stationary source at the following location:

Big Bend Station, Unit 4
Tampa Electric Company
Ruskin, Florida

UTM Coordinates: 361.6 East / 3075.0 North

Upon completion of this authorized construction and commencement of operation/production, this stationary source shall be operated in accordance with the emission limitations, sampling requirements, monitoring requirements and other conditions set forth in the attached Specific Conditions (Part I) and General Conditions (Part II).

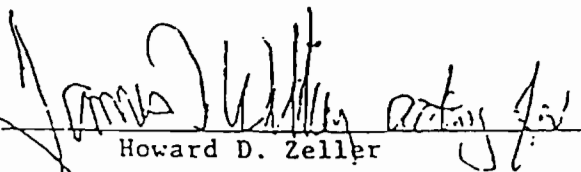
This permit shall become effective on November 14, 1981.

If construction does not commence within 18 months after the effective date of this permit, or if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable time this permit shall expire and authorization to construct shall become invalid.

This authorization to construct/modify shall not relieve the owner or operator of the responsibility to comply fully with all applicable provisions of Federal, State, and Local law.

10/15/81

Date Signed


Howard D. Zeller
Acting Director
Enforcement Division



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET
ATLANTA, GEORGIA 30365

OCT 15 1981

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Heywood A. Turner
Senior Vice President Production
Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601

Re: PSD-FL-040 / Tampa Electric Company
Big Bend Station, Unit 4

Dear Mr. Turner:

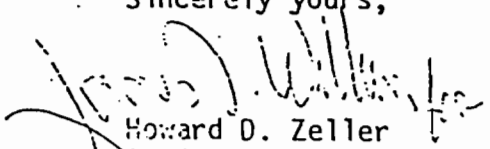
The review of your March 1980 application to construct a coal-fired steam electric generating unit (Unit 4) located at Big Bend Station near Ruskin, Florida, has been completed. The construction is subject to rules for the Prevention of Significant Air Deterioration (PSD) contained in 40 C.F.R. §52.21.

We have determined that the construction as described in the application meets all applicable requirements of the PSD regulations. Accordingly, enclosed with this letter is your permit package including a Permit to Construct, Part I: Specific Conditions, and Part II: General Conditions. This authorization to construct is based solely on the requirements of 40 C.F.R. §52.21 and does not apply to other permits issued by this or any other agency.

This final permit decision is subject to appeal under 40 C.F.R. §124.19 by petitioning the Administrator of the EPA within 30 days after receipt of this notice of the final permit decision. The petitioner must submit a statement of reasons for the appeal and the Administrator must decide on the petition within a reasonable time period. If the petition is denied, the permit becomes immediately effective. The petitioner may then seek judicial review.

Authority to construct this facility will take effect on the date specified in the permit. The complete analysis which justifies this approval has been fully documented for future reference is necessary. Any questions concerning this approval may be directed to Mr. Richard Schutt, Chief, Permit Processing Section, at 404/881-2017.

Sincerely yours,


Howard D. Zeller
Acting Director
Enforcement Division

cc: Mr. Steve Smallwood, FL DER

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OCT 19 1981

PART I: SPECIFIC CONDITIONS

Modification 7/15/88

1. ~~The proposed steam generating station shall be constructed and operated in accordance with the capabilities and specifications of the application including the 417 megawatt net generating capacity and the 4330 MMBtu/hr heat input rate.~~ 419 (1988)
2. Emissions shall not exceed the allowable emission limits listed in Table 1 for SO₂, NO_x, PM, and CO.
3. Compliance with the boiler allowable emission limits required in Condition 2 will be demonstrated with performance tests conducted in accordance with the provisions of 40 CFR 60.46a, 48a and 49a, including applicable test methods, sampling procedures, sample volumes, sampling periods, etc. Compliance with opacity limits on the limestone and flyash handling system baghouse, the limestone day silos and the flyash silos will be determined with EPA reference method 9 (Appendix A, 40 CFR 60). These facilities are exempted from mass emission rate compliance tests unless opacity limits are exceeded or the Administrator (or his representative) otherwise determines that such performance testing is required. All facilities will operate within 10 percent of maximum operating capacity during performance tests.
4. The applicant will install and maintain continuous monitoring and recording opacity meter, sulfur dioxide and nitrogen oxide analyzers, oxygen and/or CO₂ analyzer in accordance with the provisions of 40 CFR 60.47a.

5. The following requirements will be met to minimize fugitive emissions of particulate from the coal storage and handling facilities, the limestone storage and handling facilities, haul roads and general plant operations:
 - a. All conveyors and conveyor transfer points will be enclosed to preclude PM emissions excepting the coal handling stacker reclaimer, the tail end conveyor feeding the tripper and the barge unloading belt which are exempted for feasibility considerations;
 - b. Coal storage piles will be shaped, compacted and oriented to minimize wind erosion;
 - c. Water sprays for storage piles, handling equipment etc., including the handling equipment exempted from the conveyor enclosure requirement, will be applied during dry periods and as necessary to all facilities to maintain opacity (determined with reference Method 9) below 20 percent;
 - d. The limestone handling receiving hopper, conveyor transfer points and day silos will be maintained at negative pressures with the exhaust vented to a control system(s); and
 - e. The flyash handling system (including transfer and silo storage) will be maintained at negative pressures and vented to a control system.

6. The applicant will perform post-construction continuous ambient monitoring of sulfur dioxide emissions in accordance with EPA Region IV policies and procedures and the guidance offered in "Ambient Monitoring Guidelines for Prevention of Significant Deterioration (PSD)", EPA-450/2-72-019, May 1978 and the quality

assurance procedures of 40 CFR 58 Appendix B. Such monitoring will be continued for a period of at least 1 year and until determined by the Administrator (or his representative) that the effects of the modification on ambient air quality have been quantified.

7. The applicant will comply with all requirements and provisions of the New Source Performance Standard for electric utility steam generating units (40 CFR 60 Part Da). In addition, the applicant must comply with the provisions and the requirements of the attached General Conditions.
8. While Tampa Electric Company has complied with the regulations entitling them to this PSD permit (40 CFR 52.21), this does not constitute an environmental endorsement of this permit nor does it in any way prejudice or predetermine the ongoing EIS review.
9. If it is determined through the NPDES permitting process or related EIS review, that cooling towers would be required for the construction and operation of the facility at this location, this permit would be revoked and a complete new application would be required addressing all new emissions and subsequent requirements for this new plant configuration.
10. The applicant must submit to EPA Region IV's Consolidated Permits Branch within five (5) working days after it becomes available, copies of all technical data pertaining to the selected control devices, including formal bids from vendors, guaranteed efficiencies or emission rates. Although the type of control equipment described in the application has been determined by EPA to be adequate, EPA may, upon review of the data, disapprove the application if EPA determines the selected devices to be inadequate to meet the emission limits specified in this conditional approval.
11. The applicant shall maintain records of all coal washing and preparation activities for any coal which is to be fired in Big Bend Unit No. 4. These reports shall be submitted to EPA on a quarterly basis.

1. The permittee shall notify the permitting authority in writing of the beginning of construction of the permitted source within 30 days of such action and the estimated date of start-up of operation.
2. The permittee shall notify the permitting authority in writing of the actual start-up of the permitted source within 30 days of such action and the estimated date of demonstration of compliance as required in the specific conditions.
3. Each emission point for which an emission test method is established in this permit shall be tested in order to determine compliance with the emission limitations contained herein within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up of the permitted source. The permittee shall notify the permitting authority of the scheduled date of compliance testing at least thirty (30) days in advance of such test. Compliance test results shall be submitted to the permitting authority within forty-five (45) days after the complete testing. The permittee shall provide (1) sampling ports adequate for test methods applicable to such facility, (2) safe sampling platforms, (3) safe access to sampling platforms, and (4) utilities for sampling and testing equipment.
4. The permittee shall retain records of all information resulting from monitoring activities and information indicating operating parameters as specified in the specific conditions of this permit for a minimum of two (2) years from the date of recording.
5. If, for any reason, the permittee does not comply with or will not be able to comply with the emission limitations specified in this permit, the permittee shall provide the permitting authority with the following information in writing within five (5) days of such conditions:
 - (a) Qualitative and quantitative description of noncomplying emission(s),
 - (b) cause of noncompliance,
 - (c) anticipated time the noncompliance is expected to continue or, if corrected, the duration of the period of noncompliance,
 - (d) steps taken by the permittee to reduce and eliminate the non-complying emission,and
 - (e) steps taken by the permittee to prevent recurrence of the noncomplying emission.

Failure to provide the above information when appropriate shall constitute a violation of the terms and conditions of this permit. Submittal of this report does not constitute a waiver of the emission limitations contained within this permit.

PART II: GENERAL CONDITIONS

6. Any change in the information submitted in the application regarding facility emissions or changes in the quantity or quality of materials processed that will result in new or increased emissions must be reported to the permitting authority. If appropriate, modifications to the permit may then be made by the permitting authority to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause violation of the emission limitations specified herein.
7. In the event of any change in control or ownership of the source described in the permit, the permittee shall notify the succeeding owner of the existence of this permit by letter and forward a copy of such letter to the permitting authority. Such notification must be given prior to transfer of ownership.
8. The permittee shall allow representatives of the State environmental control agency and/or representatives (including contractors) of the Environmental Protection Agency, upon the presentation of credentials:
 - (a) to enter upon the permittee's premises, or other premises under the control of the permittee, where an air pollutant source is located or in which any records are required to be kept under the terms and conditions of the permit;
 - (b) to have access to and copy at reasonable times any records required to be kept under the terms and conditions of this permit, or the Act;
 - (c) to inspect at reasonable times any monitoring equipment or monitoring method required in this permit;
 - (d) to sample at reasonable times any emission of pollutants;and
 - (e) to perform at reasonable times an operation and maintenance inspection of the permitted source.
9. All correspondence required to be submitted by this permit to the permitting agency shall be mailed to the:

Chief, Compliance Branch
Enforcement Division, EPA Region IV
345 Courtland Street, NE
Atlanta, Georgia 30365
10. The conditions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

The emission of any pollutant more frequently or at a level in excess of that authorized by this permit shall constitute a violation of the terms and conditions of this permit.

TABLE 1
ALLOWABLE EMISSION LIMITS

Facility	SO ₂		NO _x		PM		CO		Opacity
	lb/MMBtu	lb/hour	lb/MMBtu	lb/hr	lb/MMBtu	lb/hr	lb/MMBtu	lb/hr	
Unit 4 Boiler (4330 MMBtu/hr) Continuous Limit					0.03	130	0.014 ^a	61 ^b	20% ^a
30 Day Rolling Average	0.82	3576	0.6	2598					
Limestone and landling System Baghouse						0.65 ^b			5%
Limestone Day Silo						0.05 ^b			5%
Wyash Silos and landling System						0.2 ^b			5%

See Permit
Modification
dated Oct, 9,
1985

to be exceeded for more than one six minute period per hour and never to exceed 27 percent opacity.

except from compliance testing provided opacity limit is maintained.

07/24/92

10:17

TAMPA ELEC. OFF. SERVICE

011

6-23-81

PRESENTED @
HUNTING

File PA 17

APPENDIX I

Conditions of Certification

State of Florida Department of Environmental Regulation
 Tampa Electric Company
 Big Bend Unit 4
 PA 79-12
 CONDITIONS OF CERTIFICATION (Revised 6-2-81)

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State of Florida Department of Environmental Regulation
Tampa Electric Company
Big Bend Unit 4
PA 79-12

CONDITIONS OF CERTIFICATION (Revised 6-2-81)

I. Air

The construction and operation of Big Bend Unit 4 at the Tampa steam electric power plant site shall be in accordance with all applicable provisions of Chapters 17-2, 17-4, 17-5 and 17-7, Florida Administrative Code. In addition to the foregoing, the permittee shall comply with the following conditions of certification:

A. Emission Limitations

1. Based on a maximum heat input of 4,330 million BTU per hour, stack emissions from Big Bend Unit 4 shall not exceed the following when burning coal:
 - a. SO₂ - 1.2 lb. per million BTU heat input, maximum two hour average, 0.84 lb/MMBtu on a 30-day rolling average.
 - b. NO_x - 0.60 lb. per million BTU heat input.
 - c. Particulates - 0.03 lb. per million BTU heat input.
 - d. Visible emissions - 20% (6-minute average), except one 6-minute period per hour of not more than 27% opacity.
2. The height of the boiler exhaust stack for Unit 4 shall not be less than 490 ft. above grade.
3. Particulate emissions from the coal handling facilities:
 - a. The permittee shall not cause to be discharged into the atmosphere from any coal processing or conveying equipment, coal storage system or coal transfer and loading system processing coal, visible emissions which exceed 20 percent opacity. Particulate emissions shall be controlled by use of control devices.
 - b. The permittee must submit to the Department within ten (10) working days after it becomes available, copies of technical data pertaining to the selected particulate emissions control for the coal handling facility. These data should include, but not be limited to, guaranteed efficiency and emission rates, and major design parameters such as air/cloth

ratio and flow rate. The Department may, upon review of these data, disapprove the use of such device if the Department determines the selected control device to be inadequate to meet the emission limits specified in 3(a) above. Such disapproval shall be issued within 30 days of receipt of the technical data.

4. Particulate emissions from limestone and flyash handling shall not exceed the following:
 - a. Limestone silos - 0.05 lb/hr.
 - b. Limestone hopper/transfer conveyors - 0.65 lb/hr.
 - c. Flyash handling system - 0.2 lb/hr.
5. Visible emissions from the following facilities shall be limited to 5% opacity: (a) limestone and flyash handling system, (b) limestone day silos and (c) flyash silos.
6. Compliance with opacity limits of the facilities listed in Condition 5 will be determined by EPA reference method 9 (Appendix A, 40 CFR 60).
7. Construction shall reasonably conform to the plans and schedule given in the application.
8. The permittee shall report any delays in construction and completion of the project to the Department's Southwest District Office.
9. Reasonable precautions to prevent fugitive particulate emissions during construction, such as coating of roads and construction sites used by contractors, will be taken by the permittee.
10. Coal should not be burned in the unit unless both electrostatic precipitator and limestone scrubber are operating properly.
11. Coal burned in the unit should be washed before it is transported to the plant site.

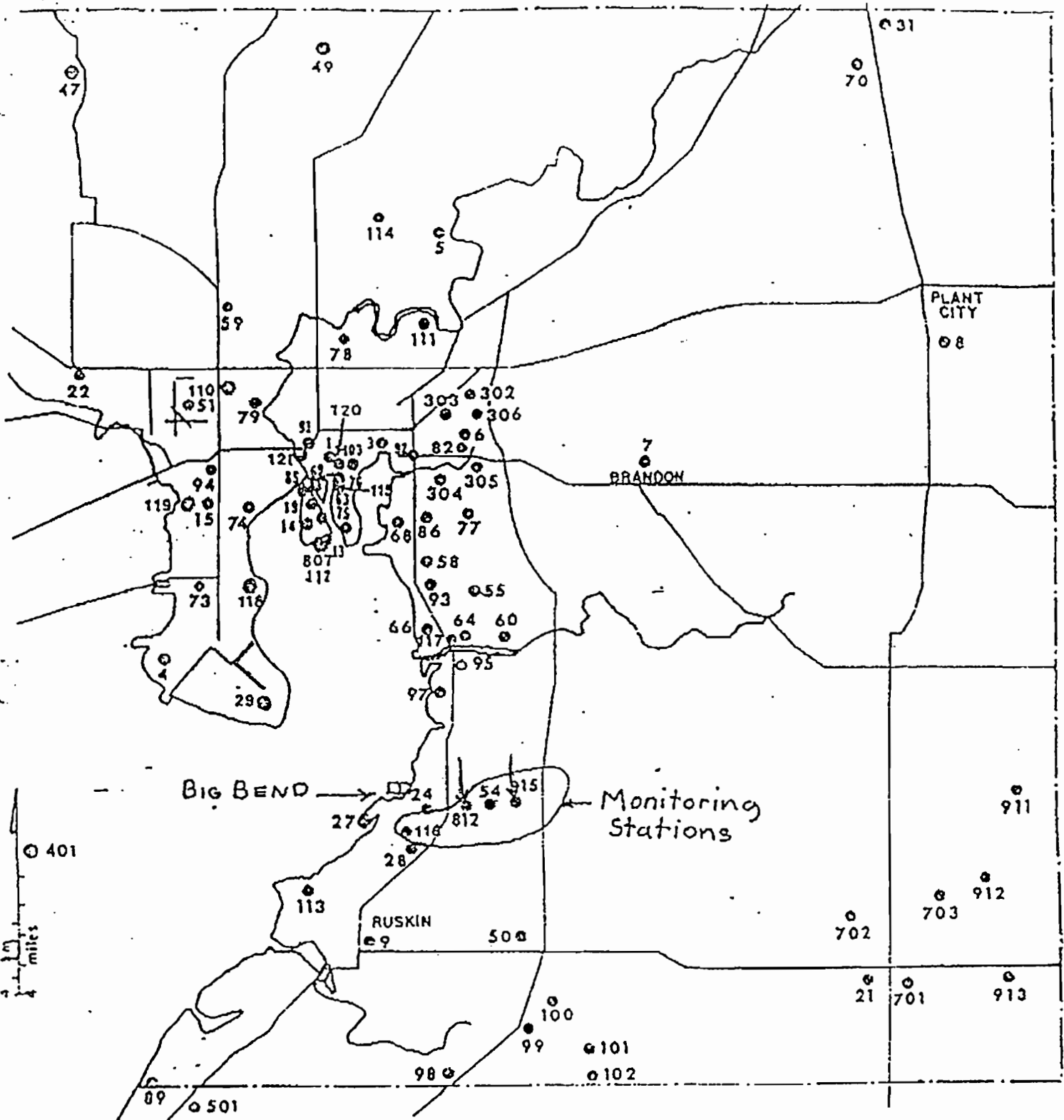
B. Air Monitoring Program

1. The permittee shall install and operate continuously monitoring devices for the Unit 4 boiler exhausts for sulfur dioxide, nitrogen dioxide, oxygen and opacity. The monitoring devices shall meet the applicable requirements of Section 17-2.08, FAC, and 40 CFR 60.47a. The opacity monitor may be placed in the duct work between the electrostatic precipitator and the FGD scrubber.

2. The permittee or Hillsborough county shall operate the two ambient monitoring devices for sulfur dioxide in accordance with EPA reference methods in 40 CFR, Part 53, and two ambient monitoring devices for suspended particulates. The monitoring devices shall be specifically located at a location approved by the Department. The frequency of operation shall be every six days commencing as specified by the Department.
3. The permittee shall maintain a daily log of the amounts and types of fuels used and copies of fuel analyses containing information on sulfur content, ash content and heating values.
4. The permittee shall provide sampling ports into the stack and shall provide access to the sampling ports, in accordance with DER publication, Standard Sampling Techniques and Methods of Analysis for the Determination of Air Pollutants from Point Source, July, 1975.
5. The ambient monitoring program may be reviewed by the Department and the permittee annually beginning two years after start-up of Unit 4.
6. Prior to operation of the source, the permittee shall submit to the Department a standardized plan or procedure that will allow the permittee to monitor emission control equipment efficiency and enable the permittee to return malfunctioning equipment to proper operation as expeditiously as possible.

C. Stack Testing:

1. Within 60 calendar days after achieving the maximum capacity at which each unit will be operated, but no later than 180 operating days after initial start-up, the permittee shall conduct performance tests for particulates, SO₂, NO_x and visible emissions during normal operations near 4,330 MMBtu/hr heat input and furnish the Department a written report of the results of such performance tests within 30 days. The performance tests will be conducted in accordance with the provisions of 40 CFR 60.46a, 48a, and 49a.
2. Performance tests shall be conducted and data reduced in accordance with methods and procedures in accordance with DER's Standard Sampling Techniques and Methods of Analysis for Determination on Air Pollutants from Point Sources, July, 1975.



AIR SAMPLING STATIONS
 HILLSBOROUGH COUNTY, FLORIDA
 1979

Figure 1

3. Performance tests shall be conducted under such conditions as the Department shall specify based on representative performance of the facility. The permittee shall make available to the Department such records as may be necessary to determine the conditions of the performance tests.
4. The permittee shall provide 30 days prior notice of the performance tests to afford the Department the opportunity to have an observer present.
5. Stack tests for particulates and SO₂ shall be performed annually in accordance with conditions C. 2, 3, and 4 above.

D. Reporting

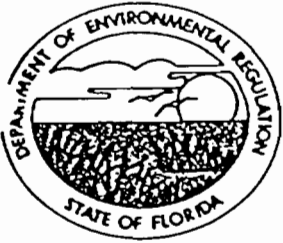
1. For Unit 4, stack monitoring, fuel usage and fuel analysis data shall be reported to the Department's Southwest District Office on a quarterly basis commencing with the start of commercial operation in accordance with 40 CFR, Part 60, Section 60.7., and in accordance with Section 17-2.08, FAC.
2. Utilizing the SAROAD or other format approved in writing by the Department, ambient air monitoring data shall be reported to the Bureau of Air Quality Management of the Department quarterly. Commencing on the date of certification, such reports shall be due by the last day of the month following the quarterly reporting period.
3. Beginning one month after certification, the permittee shall submit to the Department a quarterly status report briefly outlining progress made on engineering design and purchase of major pieces of equipment (including control equipment). All reports and information required to be submitted under this condition shall be submitted to the Administrator of Power Plant Siting, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida, 32301.

II. Water Discharges

Any discharges into any waters of the State during construction and operation of Big Bend Unit 4 shall be in accordance with all applicable provisions of Chapter 17-3, Florida Administrative Code, and 40 CFR, 423, Effluent Guidelines and Standards for Steam Electric Power Generating Point Source Category, except as provided herein. Also, the permittee shall comply with the following conditions of certification:

A. Plant Effluents and Receiving Body of Water

For discharges made from the power plant the following conditions shall apply:



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachmann, Secretary

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

January 19, 1990

RECEIVED

NOTICE OF PERMIT

JAN 22 1990

ENVIRONMENTAL
PLANNING

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

Dear Mr. Williams:

RE: Hillsborough County - AP :
Big Bend Station Combustion
Turbine No. 1

Enclosed is Permit Number A029-160257 for the operation of the Big Bend Station Combustion Turbine No. 1, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit 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 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.

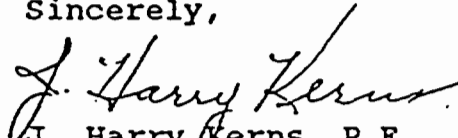
Tampa Electric Company
Tampa, FL 33601

Page Two

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.

Executed in Tampa, Florida

Sincerely,


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

JHK/WEG/bb

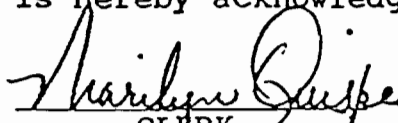
Attachment:

cc: Environmental Protection Commission
of Hillsborough County

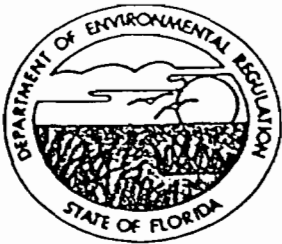
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on JAN 19 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.


CLERK

JAN 19 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
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION

Permit No: A029-160257
County: Hillsborough
Issued Date: 07/24/89
Amendment Date: 01/18/90
Expiration Date: 07/07/94
Project: Big Bend Station
Combustion Turbine
No. 1

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 Big Bend Station self-contained combustion turbine generating unit. The unit is predesigned integrated simple cycle, single shaft, three-bearing machine with load connected at the exhaust end of the unit. The turbine is fired on No. 2 fuel oil.

Location: Big Bend Road, Ruskin

UTM: 17-361.5 E 3075.0 N NEDS NO: 0039 Point ID: 07

Replaces Permit No.: A029-85100

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160257
PROJECT: Big Bend Station Combustion
Turbine No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.
3. Test the emissions for the following pollutant(s) at intervals of 12 months from the date March 19, 1990 or within a ninety (90) day period prior to this date, and submit 2 copies of test data to both the Florida Department of Environmental Regulation and Environmental Protection Commission of Hillsborough County within forty five days of such testing.

<input type="checkbox"/> Particulates	<input type="checkbox"/> Sulfur Oxides*
<input type="checkbox"/> Fluorides	<input type="checkbox"/> Nitrogen Oxides
<input checked="" type="checkbox"/> Opacity	<input type="checkbox"/> Hydrocarbons
	<input type="checkbox"/> Total Reduced Sulfur

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

4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method 9 test interval on this source shall be for thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

5. The permitted capacity of this source is 16 MW based on the load at which the December 14, 1988, visible emissions test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted capacity when practical. 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 this 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).

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-160257
PROJECT: Big Bend Station Combustion
Turbine No. 1

SPECIFIC CONDITIONS: (continued)

6. The Environmental Protection Commission of Hillsborough County shall be notified 15 days prior to compliance testing.

7. 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 Section 10, Chapter 84-446, Laws of Florida.

- (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 emission report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

8. This unit must be fired on No. 2 fuel oil.

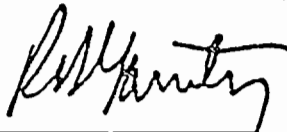
9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation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

10. Pursuant to Section 17-4.09, F.A.C., four 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.

Issued July 24, 1989

Amended this 18 day of Jan
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):

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.

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.

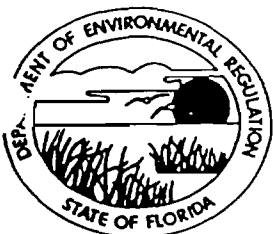
(b) The Agency shall promptly give written notice to all parties of the action taken on the petition, and shall state with particularity its reasons therefor.

(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



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

March 15, 1990

RECEIVED

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

MAR 16 1990

ENVIRONMENTAL
PLANNING

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

DER File No.: A029-174596
County: Hillsborough

Enclosed is Permit Number A029-174596 to operate the Big Bend Station Combustion Turbine No. 2, 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;

Mr. Jerry L. Williams
Tampa, Florida 33601

Page Two

(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. 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.

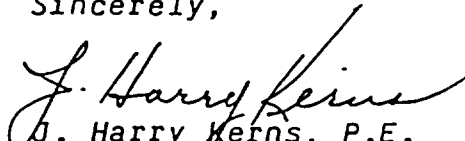
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of 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. Jerry L. Williams
Tampa, Florida 33601

Page Three

Executed in Tampa, Florida

Sincerely,


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

JHK/SKB/bb

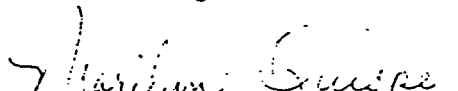
Attachment:

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 MAR 15 1990 to the listed persons.

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


Marilyn Greene
Clerk

MAR 15 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
P.O. Box 111
Tampa, FL 33601

PERMIT/CERTIFICATION
Permit No: AO29-174596
County: Hillsborough
Expiration Date: 03/09/95
Project: Big Bend Station
Combustion Turbine
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 in part hereof and specifically described as follows:

For the operation of the Big Bend Station self-contained Westinghouse combustion turbine generating unit designated as No. 2. The unit is a predesigned integrated simple-cycle, single-shaft, three-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only.

Location: Big Bend Road, Ruskin

UTM: 17-361.5 E 3075.0 N NEDS NO: 0039 Point ID: 05

Replaces Permit No.: AO29-100797

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-174596
PROJECT: Big Bend Station Combustion
Turbine No. 2

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.
3. Test the emissions for the following pollutant(s) at intervals of 12 months from the date March 19, 1990 or within a ninety (90) day period prior to this date, and submit 2 copies of test data to both the Florida Department of Environmental Regulation and Environmental Protection Commission of Hillsborough County within forty five days of such testing.

<input type="checkbox"/> Particulates	<input type="checkbox"/> Sulfur Oxides*
<input type="checkbox"/> Fluorides	<input type="checkbox"/> Nitrogen Oxides
<input checked="" type="checkbox"/> Opacity	<input type="checkbox"/> Hydrocarbons
	<input type="checkbox"/> Total Reduced Sulfur

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

4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method 9 test interval on this source shall be for thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

5. The permitted capacity of this source is 77 MW based on the load at which the December 5, 1989, visible emissions test was conducted. Approved compliance testing of emissions shall be conducted within approximately 10% of the permitted capacity when practical. 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.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-174596
PROJECT: Big Bend Station Combustion
Turbine No. 2

SPECIFIC CONDITIONS: (continued)

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 this 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).

6. The Environmental Protection Commission of Hillsborough County shall be notified 15 days prior to compliance testing.

7. 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 Section 10, Chapter 84-446, Laws of Florida.

- (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 emission report shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

8. This unit must be fired on No. 2 fuel oil.

9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 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.

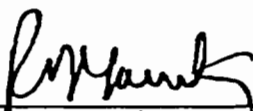
10. Pursuant to Section 17-4.09, F.A.C., four applications for renewal of permit to operate this source shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-174596
PROJECT: Big Bend Station Combustion
Turbine No. 2

Issued this 17 day of March
1992.

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):

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.



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

May 9, 1990

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

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

DER File No.: A029-174611
County: Hillsborough

Enclosed is Permit Number A029-174611 to operate the Big Bend Station Combustion Turbine 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 33601-0111

Page Two

Executed in Tampa, Florida

Sincerely,

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

JHK/CCG/bb

Attachment:

cc: Environmental Protection Commission
of Hillsborough County

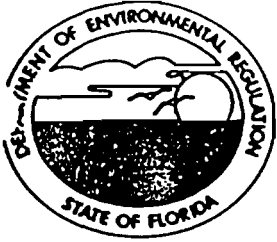
CERTIFICATE OF SERVICE

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

Marilyn Quispe
Clerk

MAY 9 1990
Date



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

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

PERMITTEE:

Tampa Electric Company
Post Office Box 111
Tampa, Florida 33601-0111

PERMIT/CERTIFICATION

Permit No.: A029-174611
County: Hillsborough
Expiration Date: 04/27/95
Project: Big Bend Station
Combustion Turbine
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 of 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 Big Bend Station self-contained Westinghouse combustion turbine generating unit designated as No. 3, the unit is pre-designed integrated simple-cycle, single-shaft, multi-bearing machine with the load connected at the exhaust end of the unit. The turbine is fired on No. 2 distillate fuel oil and operated for intermittent peaking and emergency services only. This unit is rated at 78 MW.

Location: Big Bend Road, Ruskin

UTM: 17-361.5 E 3075.6 N Neds No.: 0039 Point ID: 06

Replaces Permit No.: A029-100795

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-174611
Project: Big Bend Station Combustion
Turbine No. 3

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.
3. Test the emissions for opacity at intervals of 12 months from February 22, 1990 or within a ninety (90) day period prior to this date, and submit one copy of the test data to the Florida Department of Environmental Regulation and one copy to the Environmental Protection Commission of Hillsborough County within 45 days of such testing.
4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The Method 9 test interval on this source shall be thirty (30) minutes in duration. The minimum requirements for source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.
5. The permitted operating capacity of this source is 70.4 MW based on the load at which the February 22, 1990 visible emission compliance stack test was conducted. Testing of emissions to show compliance shall be conducted within +10% of the permitted capacity. A compliance test submitted at operating levels less than 90% of the permitted capacity will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher capacity is submitted. Any time the permitted operating capacity of the plant is exceeded by more than 10%, a compliance test shall be performed within 30 days of initiation of the higher rate and the results submitted to the Department and the Environmental Protection Commission of Hillsborough County.

Acceptance of the test by the Department will automatically constitute an amended permit at the higher rate. Emission limitations are not automatically adjusted above the allowable levels established by this permit. The actual fuel consumption rate and power output of the unit shall be specified in each test report. Failure to submit the input rates and actual operating conditions may invalidate the test data (Subsection 17-4.070(3), F.A.C.).

PERMITTEE:
Tampa Electric Company

Permit/Certification No.: A029-174611
Project: Egg Bend Station Combustion
Turbine No. 3

SPECIFIC CONDITIONS: (continued)

6. The Environmental Protection Commission of Hillsborough County shall be notified 15 days prior to any compliance test conducted on this source.

7. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information per Section 17-4.140, F.A.C./Specific Authority: 403.061, 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 emission report shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

8. This unit must be fired on No. 2 fuel oil.

9. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 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, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

10. 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. Section 17-2.210, F.A.C.

11. Pursuant to Section 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.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-174611
PROJECT: Big Bend Station Combustion
Turbine No. 3

Issued this 8 day of May
1970.

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):

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:

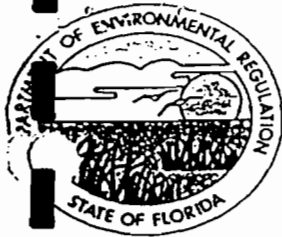
a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically, unless otherwise stipulated by the Department.

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.



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

MAR 13 1992

ENVIRONMENTAL
PLANNING

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

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

DER File No.: A029-160255
County: Hillsborough

Enclosed is amended Permit Number A029-160255 to operate the Big Bend Station Fly Ash Silo #1 which handles fly ash from Steam Boilers #1 and #2, 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 amended 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 amended 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 amended 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 (amended 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.



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: A029-160255
County: Hillsborough
Issued Date: 12/21/89
Amendment Date: 03/12/92
Expiration Date: 12/22/94
Project: Big Bend Fly Ash
Silo #1 (Serving
Big Bend Steam
Boilers #1 and #2)

This amended 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 Big Bend Station Fly Ash Silo #1 which handles fly ash from Big Bend Steam Boilers #1 and #2. Fly ash is pneumatically conveyed from the individual electrostatic precipitators to Silo #1. Also, the fly ash may be pneumatically conveyed from tanker trucks to Silo #1. The sum total loading rate to the silo for all the processes combined is 44.5 tons per hour. Fly ash from Silo #1 is discharged in either a wet or dry state. The dry fly ash is gravity fed by tubing into totally enclosed tanker trucks. The wet fly ash is processed through a pugmill and then unloaded into a dump truck.

Particulate matter emissions generated by silo loading and unloading to a tanker truck are controlled by a 27,136 ACFM, Flex-Kleen #84 UDTR-640 baghouse as well as reasonable precautions specified in the specific conditions.

Location: Big Bend Road, Ruskin

UTM: 17-361.5 E 3075.0 N NEDS NO: 0039 Point ID: 08 - Baghouse
18 - Truck
Loadout

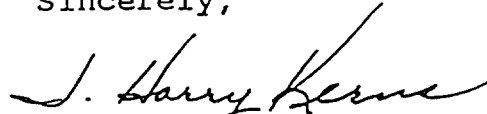
Replaces Permit No.: A029-90129 and AC29-194516

Tampa Electric Company
Tampa, FL 33601-0111

Page Three

Executed in Tampa, Florida

Sincerely,


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

JHK/BK/bm

Attachment:

cc: Environmental Protection Commission
of Hillsborough County
Ralph J. Mitchell, P.E., Tampa Electric Company

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 12 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

MAR 12 1992
Date

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160255
PROJECT: Big Bend Fly Ash Silo #1
(Serving Big Bend Steam
Boilers #1 and #2)

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Total maximum allowable emissions of particulate matter from the silo baghouse shall not exceed .03 grains/DSCF, 5.16 lbs./hr. and 22.62 tons/yr. based on a design flow rate of 20,081 DSCFM. [Construction Application]
3. Visible emissions from the baghouse exhaust shall not exceed five (5) percent opacity. This limit is an alternate standard in lieu of a particulate emission test requirement. [Rule 17-2.700(3)(d), F.A.C.]
4. Visible emissions from the silo unloading point shall not be equal to or greater than 20 percent opacity. [Rule 17-2.610(2)(a), F.A.C.]
5. The following reasonable precautions shall be taken to control unconfined particulate matter emissions associated with the silo operations: [Rule 17-2.610(3)(c), F.A.C.]
 - A) Fly ash transported by dump truck shall be adequately wetted and processed through the pugmill.
 - B) Dump trucks used to transport fly ash shall utilize tarps at all times except when loading/unloading.
 - C) Fly ash transported in a dry state shall be accomplished utilizing an enclosed tanker truck.
 - D) Fly ash spilled and/or leaked on plant grounds shall be adequately wetted and disposed of daily.
 - E) Fly ash collected from spills and/or leaks must be adequately wetted at all times.
 - F) Ensure the proper seating of the unloader chute onto the tanker inlet prior to loading.
 - G) Keep the dust extractor operational during loading.
 - H) Close the tanker's inlet as soon as practical after the loading process.
 - I) Extend the tubing from the silo into the closed tanker type trucks during loadout.
6. The following restrictions and limitations shall apply to the operation of the silo: [Construction Application]
 - A) Maximum Loading Rate: 44.5 TPH - All Processes
 - B) Hours of Operation: 8,760 hours per year
7. Test the baghouse exhaust and the truck loadout for visible emissions at intervals of twelve (12) months and within 90 days prior to December 27, 1991. Submit 2 copies of the test data to the Air Section of the Environmental Protection Commission of Hillsborough County within 45 days of testing. Testing procedures shall be consistent with the requirements of 40 CFR 60 and Rule 17-2.700(2), F.A.C.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160255
PROJECT: Big Bend Fly Ash Silo #1
(Serving Big Bend Steam
Boilers #1 and #2)

SPECIFIC CONDITIONS: (continued)

8. Compliance with the emission limitations of Specific Condition Nos. 3 and 4 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least thirty (30) minutes. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

9. Approved compliance stack testing of emissions must be conducted within approximately 10% of the permitted capacity (silo loading rate 44.5 TPH). A compliance test submitted at operating levels less than 90% of permitted capacities 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. Failure to submit the operating rates for the boilers or operating at conditions during testing which do not reflect normal operating conditions may invalidate the data. [Rule 17-4.070(3), F.A.C.]

10. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source.

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

12. 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 17-2.700, F.A.C.]

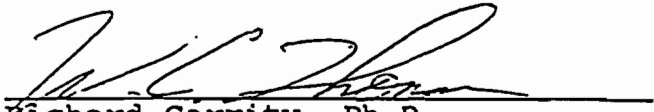
13. An application for renewal of permit to operate this source, completed in quadruplicate shall be submitted to the Environmental Protection Commission of Hillsborough County at least 60 days prior to its expiration date. [Rule 17-4.090, F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-160255
PROJECT: Big Bend Fly Ash Silo #1
(Serving Big Bend Steam
Boilers #1 and #2)

SPECIFIC CONDITIONS: (continued)

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


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.

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.

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.

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)

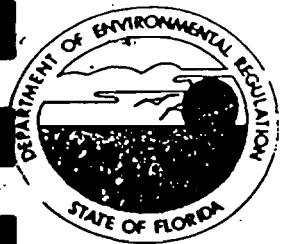
() Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)

() 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

813-623-3561

Carol M. Browner, Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED

October 16, 1991

In the Matter of an Application
for Permit Amendment by:

DER File No. A029-161082
Hillsborough County

RECEIVED

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

OCT 17 1991

**ENVIRONMENTAL
PLANNING**

Enclosed is amended permit number A029-161082 to operate the Big Bend Station Fly Ash Silo No. 2, issued pursuant to Section 403, Florida Statutes.

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 amendment. 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 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 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 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 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.

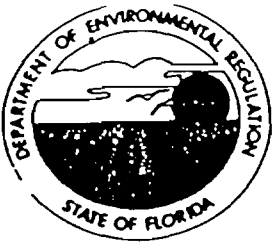
When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the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



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

813-623-5361

Carol M. Browner, Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A029-161082
County: Hillsborough
Originally Issued: 07/24/89
First Amendment: 01/18/90
Second Amendment: 02/07/90
Third (last) Amendment: 10/16/91
Expiration Date: 07/07/94
Project: Big Bend Station Fly
Ash Silo No. 2

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 Big Bend Station Fly Ash Silo No. 2. Fly ash is pneumatically conveyed in a series of pipes from the individual unit precipitators (Units 1, 2 and/or 3, only two (2) units at any time) to the silo for temporary storage. From the silo, the fly ash is gravity fed by tubing into closed tanker trucks and transported to an off site consumer. Particulate emissions generated during silo loading operation and from the tanker truck loadout chutes are controlled by a 20,080 DSCFM Flex Kleen, Model No. 84 UDTR-60 baghouse.

Location: Big Bend Road, Ruskin

UTM: 17-361.7 E 3075.0 N NEDS No: 0039 Point ID: 09 - Baghouse
19 - Truck
Loadout

Replaces Permit No.: A029-90128

Copy Furnished to:

Environmental Protection Commission
of Hillsborough County

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on OCT 16 1991 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.

Barbara C. Cusick
Clerk

OCT 16 1991
Date

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-161082
PROJECT: Big Bend Station Fly Ash
Silo No. 2

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Total maximum allowable particulate matter emissions from the silo shall not be greater than 5.16 pounds per hour and 22.62 tons per year.
[Rules 17-2.520, 17-2.100(127) and 17-2.100(3), F.A.C.].
3. Visible emissions generated from the silo baghouse exhaust shall not be equal to or greater than 20% opacity.
[Rule 17-2.610(2)(a), F.A.C.].
4. Test the emissions from the silo baghouse exhaust and truck loadout transfer point for the following pollutant(s) at intervals of 12 months from the date of May 3, 1991 or within a ninety (90) day period prior to this date. One copy of the test data shall be submitted to both the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation within forty-five days of such testing:

- (X) Particulates*
- (X) Opacity

* In lieu of a stack test, an EPA Method 9 test showing no visible emissions (5% opacity or less) from the silo baghouse exhaust may be submitted. Truck loadout transfer point requires only opacity testing.

5. Compliance testing for the silo and tanker truck loading operations shall be conducted under the following conditions:
 - a. All conveyance hoppers will be operational during the test.
 - b. All fly ash will be directed to the silo, no reinjection of fly ash to the boiler systems will occur during the test.
 - c. The boilers shall operate at the maximum capability of this unit under normal operating conditions during the test.
 - d. Two tanker trucks shall be loaded during the test. The loading valve shall be completely open during filling.
 - e. The visible emission test shall be at least 30 minutes in duration and the period of time during which truck loading occurred indicated on the test report.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-161082
PROJECT: Big Bend Station Fly Ash
Silo No. 2

SPECIFIC CONDITIONS:

6. Compliance with the emission limitations of Specific Condition Nos. 2 and 3 shall be determined using EPA Methods 1, 2, 4, 5 and 9 contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. The Method 9 observation period for the silo and tanker truck loading operations shall be at least thirty (30) minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

7. All compliance tests shall be conducted while loading the silo at approximately the maximum feed rate (24 hour average). Failure to submit the feed rate or operating at conditions during testing which do not reflect normal operating conditions may invalidate the data. [Rule 17-4.070(3), F.A.C.]

8. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source.

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:

- (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 emission report shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

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 standards be demonstrated by testing. [Rule 17-2.700, F.A.C.]

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-161082
PROJECT: Big Bend Station Fly Ash
Silo No. 2

SPECIFIC CONDITIONS:

11. 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. During truck loading of ash, reasonable precautions shall include, but not limited to:

- a. Ensuring the proper seating of the unloader chute onto the tanker inlet prior to loading.
- b. Keeping the dust extractor operational during loading.
- c. Closing the tanker's inlet as soon as practical after the loading process.
- d. Removal of fugitive fly ash emissions from the grounds adjacent to the loadout area on an as-needed basis.
- e. Extending the tubing from the silo into the closed tanker type trucks during loadout.

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

13. Four applications for renewal of this operating permit shall be submitted to the Environmental Protection Commission of Hillsborough County by May 8, 1994. [Rule 17-4.090, F.A.C.].

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Dr. Richard D. Garrity
Director of District Management
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

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 • 813-623-5561

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

October 6, 1989

RECEIVED

NOTICE OF PERMIT

OCT 10 1989

ENVIRONMENTAL
PLANNING

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

Dear Mr. Williams:

RE: Hillsborough County - AP
Big Bend Station
Units 1-3 Coal Bunkers with
Three Roto-Clones

Enclosed is Permit Number A029-163788 to operate Units 1-3 Coal Bunkers with Three Roto-Clones, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit 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 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.

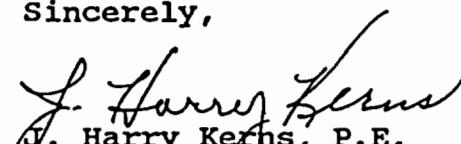
Tampa Electric Company
Tampa, FL 33601

Page Two

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.

Executed in Tampa, Florida

Sincerely,


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

JHK/AJW/bb

Attachment:

cc: Environmental Protection Commission
of Hillsborough County
Thomas W. Davis, P.E.

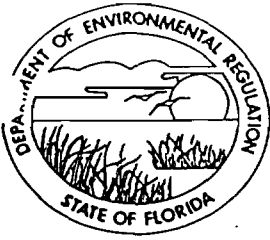
CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on OCT - 6 1989 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.


CLERK

OCT - 6 1989
DATE



Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary
Richard Garrity, Deputy Assistant Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: AO29-163788
County: Hillsborough
Expiration Date: 06/30/94
Project: Big Bend Station
Units 1-3 Coal
Bunkers with Three
Roto-Clones

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 Big Bend Station Units 1-3 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 the various bunkers. Coal Bunkers 1-3 are each equipped with a 9400 ACFM American Air Filter (AAF) 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 the coal bunkers via a hopper and return line. Unit No. 1 Coal Bunker is situated west of Unit No. 2 Coal Bunker. Unit No. 3 Coal Bunker is situated east of Unit No. 2 Coal Bunker.

Location: Big Bend Road, North Ruskin

UTM: 17-361.9 E 3075.0 N NEDS NO: 0039 Point ID: 15 Unit No. 1
Bunker
16 Unit No. 2
Bunker
17 Unit No. 3
Bunker

Replaces Permit No.: N/A

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: AO29-163788
PROJECT: Big Bend Station
Units 1-3 Coal Bunkers with Three
Roto-Clones

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Since a source of less than 1 TPY is exempt from particulate RACT provisions, the maximum allowable particulate emissions shall not exceed 0.99 tons per year from each cyclone exhaust [Subsection 17-2.650(2)(b)3., F.A.C.]. Also, maximum allowable particulate emissions shall not exceed 0.48 lbs./hr. from each cyclone exhaust, as determined from the applicable emission factors described in AP-42, Section 11.2.3 (May, 1983).
3. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.
4. The annual coal throughput shall not exceed 4,000 TPH per bunker.
5. To show compliance with the annual allowable emission rate, hours of bunker loading operation shall not exceed 4167 hours per year.
6. Test the emissions for the following pollutant(s) at intervals of 12 months from June 13, 1989 or within 90 days prior to this date and submit one copy of the test data to the Florida Department of Environmental Regulation and one copy of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office within forty five days of such testing. Testing procedures shall be consistent with the requirements of Section 17-2.700, F.A.C.

<input checked="" type="checkbox"/> Particulates	<input type="checkbox"/> Sulfur Oxides
<input type="checkbox"/> Fluorides	<input type="checkbox"/> Nitrogen Oxides
<input checked="" type="checkbox"/> Opacity	<input type="checkbox"/> Hydrocarbons
	<input type="checkbox"/> Total Reduced Sulfur

7. 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 hereby waives the requirement for a stack test. The alternative standard establishes a visible emission limitation not to exceed an opacity of 5%.

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-163788
PROJECT: Big Bend Station
Units 1-3 Coal Bunkers with Three
Roto-Clones

SPECIFIC CONDITIONS: (continued)

8. Compliance with the alternate emission limitation of Specific Condition No. 7 shall be determined using DER Method 9 contained in Section 17-2.700, F.A.C. The compliance testing shall consist of an DER Method #9 test to be conducted as per Specific Condition No. 6 on 1 of the 3 coal bunker ventilation roto-clones such that all 3 Roto-clones will be tested within a 3 year period. The Method #9 test interval on these sources shall be thirty (30) minutes in duration. Also, within 90 days upon the issuance date of this permit all three coal bunker Roto-clones shall have been tested for visible emissions using DER Method #9. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C.

9. Testing of emissions must be accomplished at the maximum attainable bunkering rate under typical bunkering operations. The actual coal transfer to bunker rate shall be specified in each test result. Failure to include the actual process or production rate in the results may invalidate the test [Section 403.161(1)(c), Florida Statutes].

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 standards be demonstrated by testing using EPA Methods 1, 2, 4 and 5 in accordance with Section 17-2.700, F.A.C.

11. The Environmental Protection Commission of Hillsborough County shall be notified 15 days in advance of any compliance test to be conducted on this source.

12. 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 Section 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.

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

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-163788
PROJECT: Big Bend Station
Units 1-3 Coal Bunkers with Three
Roto-Clones

SPECIFIC CONDITIONS: (continued)

13. An original application to renew this operating permit and three 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.

Issued this 5 day of Oct
1987.

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):

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.

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

345 COURTLAND STREET, N.E.
ATLANTA, GEORGIA 30365

AUG - 3 1994

RECEIVED

AUG 9 1994

ENVIRONMENTAL
PLANNING

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 - ~~Big Bend~~. 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,

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-Big Bend
Operated by: Tampa Electric Corporation
Effective: January 1, 1995 to December 31, 1999

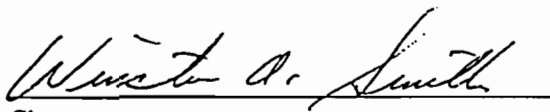
Summary of Previous Actions

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,
issued for public comment. July 16, 1993
(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

7-15-94
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-Big Bend
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.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645

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)."

On the original Phase I Permit Application submitted by Tampa Electric Company, Big Bend Unit BB04 was incorrectly identified as an underutilized Phase I unit. The designated representative corrected this error by submitting a revised application that properly identified Big Bend Unit No. BB04 as a compensating unit. The revised application was submitted by the designated representative on March 8, 1993, and was received by EPA on March 12, 1993.

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

Plant Name: Big Bend
 State: Florida
 ORIS Code: 0645
 Boiler ID#: BB01

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	27,662	27,662	27,662	27,662	27,662
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	0	0	0	0	0
Reduced Utilization 40 CFR 72.43	0	0	0	0	0

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 reduced utilization plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a compensating unit. If this plan is activated, it would result in the use of energy efficiency and improved unit efficiency measures to account for underutilization of this unit. There is no allowance allocation for the use of these compliance measures.
2. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Big Bend Unit BB04 as a substitution unit.
3. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB01 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB01 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
4. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB02 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB01

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

5. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB03 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
6. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB04 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
7. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB05 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
8. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB06 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
9. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB01 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB01 as a substitution unit.
10. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB02 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB01

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

11. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB03 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

12. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB04 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

13. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB05 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

14. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB06 as a substitution unit. In this plan, Big Bend Unit BB02 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

Plant Name: Big Bend
 State: Florida
 ORIS Code: 0645
 Boiler ID#: BB02

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	26,387	26,387	26,387	26,387	26,387
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	0	0	0	0	0
Reduced Utilization 40 CFR 72.43	0	0	0	0	0

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 reduced utilization plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a compensating unit. If this plan is activated, it would result in the use of energy efficiency and improved unit efficiency measures to account for underutilization of this unit. There is no allowance allocation for the use of these compliance measures.
2. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Big Bend Unit BB04 as a substitution unit.
3. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB01 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB01 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
4. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB02 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB02

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

5. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB03 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
6. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
7. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB05 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
8. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB06 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate Hookers Point Unit HB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
9. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB01 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB01 as a substitution unit.
10. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB02 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB02

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

11. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB03 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

12. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

13. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB05 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

14. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB06 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB03, which are Phase I units, also designate F.J. Gannon Unit GB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

R. SCOTT DAVIS

Permit Reviewer

R. Scott Davis

Signature

7/14/94

Date

Plant Name: Big Bend
 State: Florida
 ORIS Code: 0645
 Boiler ID#: BB03

Phase I SO₂ Allowance Allocation

	1995	1996	1997	1998	1999
Table 1 40 CFR 73.10	26,036	26,036	26,036	26,036	26,036
Phase I Extension 40 CFR 72.42	N/A	N/A	N/A	N/A	N/A
Substitution 40 CFR 72.41	0	0	0	0	0
Reduced Utilization 40 CFR 72.43	0	0	0	0	0

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 reduced utilization plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a compensating unit. If this plan is activated, it would result in the use of energy efficiency and improved unit efficiency measures to account for underutilization of this unit. There is no allowance allocation for the use of these compliance measures.
2. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Big Bend Unit BB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Big Bend Unit BB04 as a substitution unit.
3. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB01 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB01 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.
4. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB02 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB03

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

5. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB03 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

6. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

7. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB05 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

8. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-Hookers Point Unit HB06 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate Hookers Point Unit HB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

9. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB01 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB01 as a substitution unit.

10. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB02 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB02 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB03

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

11. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB03 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB03 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

12. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB04 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB04 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

13. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB05 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB05 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

14. EPA approves a conditional substitution plan for this unit for 1995-1999 that designates Tampa Electric Company-F.J. Gannon Unit GB06 as a substitution unit. In this plan, Big Bend Unit BB01 and Unit BB02, which are Phase I units, also designate F.J. Gannon Unit GB06 as a substitution unit. The substitution plan is revised to reflect changes in values used to allocate allowances to the substitution unit.

R. SCOTT DAVIS
Permit Reviewer


Signature

7/14/94
Date

Plant Name: Big Bend
 State: Florida
 ORIS Code: 0645
 Boiler ID#: BB04

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	6,400*	6,400*	6,400*	6,400*	6,400*
Reduced Utilization 40 CFR 72.43	6,400*	6,400*	6,400*	6,400*	6,400*

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. (a) EPA approves a conditional substitution plan for this unit for 1995-1999 in which it is designated as a substitution unit for Big Bend Unit BB01, Unit BB02, and Unit BB03, which are Phase I units.

 (b) 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.
2. EPA approves a conditional reduced utilization plan for this unit for 1995-1999 in which it is designated as a compensating unit for Big Bend Unit BB01, a Phase I unit.
3. EPA approves a conditional reduced utilization plan for this unit for 1995-1999 in which it is designated as a compensating unit for Big Bend Unit BB02, a Phase I unit.
4. EPA approves a conditional reduced utilization plan for this unit for 1995-1999 in which it is designated as a compensating unit for Big Bend Unit BB03, a Phase I unit.

Plant Name: Big Bend
State: Florida
ORIS Code: 0645
Boiler ID#: BB04

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

*5. If this unit's substitution plan or one or more of the reduced utilization plans are activated, this unit will receive the allowances indicated above. This unit may receive, in a given year, allowances either as a substitution unit or as a compensating unit but not both. Any or all of the 3 reduced utilization plans can be active for the same year, but this unit will receive the allowances above only once for each year this unit serves as a compensating unit. A unit cannot serve as both a substitution unit and a compensating unit for the same year.

R. SCOTT DAVIS
Permit Reviewer

R. Scott Davis
Signature

7/14/94
Date

ELECTRONIC SUBMITTAL

