

HOOKERS POINT STATION

TITLE V OPERATING PERMIT APPLICATION

RECEIVED

FEB 13 1997

BUREAU OF AIR REGULATION

JUNE 1996

REVISED FEBRUARY 1997

TABLE OF CONTENTS

Section	Tab
Introduction	Introduction
Application Information	Application Information
Facility Information	Facility Information
Unit No. 1	E.U. 1
Unit No. 2	E.U. 2
Unit No. 3	E.U. 3
Unit No. 4	E.U. 4
Unit No. 5	E.U. 5
Unit No. 6	E.U. 6
Facility Supplemental Information	
Area Map Showing Facility Location	Doc. II.D.1
Facility Plot Plan	Doc. II.D.2
Process Flow Diagrams	Doc. II.D.3
Precautions to Prevent Emissions of Unconfined Particulate Matter	Doc. II.D.4
List of Proposed Exempt Activities	Doc. II.D.7
Compliance Report, Plan, and Certification	Docs. II.D.13 and 14

TABLE OF CONTENTS (Continued, Page 2 of 2)

Section	<u>Tab</u>
Emission Unit Supplemental Information	
Fuel Analysis or Specification	Doc. III.I.2
Description of Stack Sampling Facilities	Doc. III.I.4
Procedures for Startup and Shutdown	Doc. III.I.6
Operation and Maintenance Plan	Doc. III.I.7
Compliance Assurance Monitoring Plan (Reserved)	Doc. III.I.12
Appendices	
Regulatory Applicability Analysis	Appendix A
Potential Pollutant Emission Rate Summaries	Appendix B
Emission Inventory Worksheets	Appendix C
Current Permits	Appendix D
Pollutant Codes	Appendix E

INTRODUCTION

The Tampa Electric Company (TEC) Hookers Point Station located in Tampa, Hillsborough County, Florida is a nominal 227 megawatt (MW) electric generation facility. The Hookers Point Station consists of six steam boilers (Unit Nos. 1 through 6), five steam turbines/generators, a once-through cooling water system, fuel oil storage tanks, and ancillary support equipment. Steam produced by Unit Nos. 1 through 5 is ducted to a common steam header which feeds four steam turbine/generators. Steam produced by Unit No. 6 is routed to a steam turbine/generator dedicated to Unit No. 6.

Unit Nos. 1 and 2 each have a nominal maximum heat input of 298 million British thermal units per hour (MMBtu/hr). Unit Nos. 3 and 4 each have a nominal maximum heat input of 411 MMBtu/hr. Unit Nos. 5 and 6 have nominal maximum heat inputs of 610 and 778 MMBtu/hr, respectively. Units Nos. 1 through 6 are all fired with No. 6 fuel oil. Unit Nos. 1, 4, and 5 utilize No. 2 fuel oil for ignition during startups. Propane is used for ignition during startups for Unit No. 6.

Operation of the Hookers Point Station is currently authorized by Florida Department of Environmental Protection (FDEP) Operation Permits AO29-203001 (Unit No. 1), AO29-203000 (Unit No. 2), AO29-202999 (Unit No. 3), AO29-202998 (Unit No. 4), AO29-202997 (Unit No. 5), and AO29-203002 (Unit No. 6). Each of these permits was issued on December 19, 1991 and have an expiration date of December 1, 1996.

The TEC Hookers Point 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 Hookers Point Station and is submitted to satisfy the requirements of Chapter 62-213.400, F.A.C.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

Tampa Electric Company Hookers Point Station 1700 Hemlock Street, Tampa, Florida Existing, Permitted Facility

Owner/Authorized Representative or Responsible Official

	Douglas H. Finke General Manager, F	Iookers Point	Station	
2.	Owner/Authorized Rep	presentative or 1	Responsible Official	Mailing Address:
	Organization/Firm: Street Address: City:	Tampa Ele P.O. Box 1 Tampa	ectric Company 11 State: FL	Zip Code: 33601-0111
3.	Owner/Authorized Rep Telephone: (813) 642		_	Telephone Numbers: 3) 641-5418
4.	Owner/Authorized Rep	presentative or l	Responsible Official	Statement:
	_		-	itive* of the non-Title V source
	62-210.200, F.A.C., of applicable. I hereby continuity, that the statem that, to the best of my hare based upon reason emissions units and air operated and maintain pollutant emissions for Department of Environment, if granted by the	the Title V sou ertify, based on eents made in th knowledge, any able techniques pollution cont ed so as to com and in the statut mental Protect pepartment, promptly notif	rce addressed in this information and be his application are treestimates of emissions for calculating emistrol equipment descriptly with all applicables of the State of Flotion and revisions the cannot be transferred	sible official, as defined in Rule is application, whichever is lief formed after reasonable rue, accurate and complete and ons reported in this application issions. The air pollutant libed in this application will be ble standards for control of air forida and rules of the ereof. I understand that a led without authorization from the oon sale or legal transfer of any
	62-210.200, F.A.C., of applicable. I hereby continquiry, that the statement that, to the best of my in are based upon reason emissions units and air operated and maintain pollutant emissions for Department of Environment, if granted by the Department, and I will	the Title V sou ertify, based on eents made in th knowledge, any able techniques pollution cont ed so as to com and in the statut mental Protect pepartment, promptly notif	rce addressed in this information and be his application are treestimates of emissions for calculating emistrol equipment descriptly with all applicables of the State of Flotion and revisions the cannot be transferred	s application, whichever is lief formed after reasonable rue, accurate and complete and ons reported in this application issions. The air pollutant libed in this application will be ble standards for control of air orida and rules of the ereof. I understand that a

^{*} Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit
001	Unit No. 1; Residual Fuel Oil-Fired Steam Generator
002	Unit No. 2; Residual Fuel Oil-Fired Steam Generator
003	Unit No. 3; Residual Fuel Oil-Fired Steam Generator
004	Unit No. 4; Residual Fuel Oil-Fired Steam Generator
005	Unit No. 5; Residual Fuel Oil-Fired Steam Generator
006	Unit No. 6; Residual Fuel Oil-Fired Steam Generator

Purpose of Application and Category

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain:

[X] Initial air operation permit under Chapter 62-213,	F.A.C.,	for an	existing	facility	which is
	classified as a Title V source.					

[] Initial air operation permit under Chapter 62-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:

[] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed:

[] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:

Operation permit to be revised:

[] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application.

Operation permit to be revised/corrected:

Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

	Operation permit to be revised :
	Reason for revision :
	tegory II: All Air Operation Permit Applications Subject to Processing Under Rule -210.300(2)(b), F.A.C.
Thi	s Application for Air Permit is submitted to obtain :
].	Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.
	Current operation/construction permit number(s):
[] Renewal air operation permit under Fule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.
	Operation permit to be renewed :
[] Air operation permit revision for a synthetic non-Title V source.
	Operation permit to be revised :
	Reason for revision :
Ca	tegory III:All Air Construction Permit Applications for All Facilities and Emissions Units
Thi	s Application for Air Permit is submitted to obtain :
[] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).
	Current operation permit number(s), if any :
[] Air construction permit to make federally enforceable an assumed restriction on the potential
DE	I. Part 4 - 2 P Form No. 62-210.900(1) - Form

emissions of one or more existing, permitted emissions units.

Current operation permit number(s):

[] Air construction permit for one or more existing, but unpermitted, emissions units.

Attached - Amount : NA Construction/Modification Information 1. Description of Proposed Project or Alterations : NA

2. Projected or Actual Date of Commencement of Construction :

Application Processing Fee

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

BEST AVAILABLE COPY

 Professional Engineer Staten 	ient
--	------

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.

Mund Or. June

Date

(seal)

^{*} Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact:

Name: Janice Taylor

Title: Senior Engineer, Env. Planning

2. Application Contact Mailing Address:

Organization/Firm: Tampa Electric Company Street Address: 6944 U.S. Highway 41N

City: Tampa

State: FL

Zip Code: 33572-9200

3. Application Contact Telephone Numbers :

Telephone: (813)641-5039

Fax: (813)641-5081

Application Comment

Initial Title V permit application for Tampa Electric Company Hookers Point Station.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

Facility Owner or Operator : Tampa Electric Company					
2. Facility Name: Hool	2. Facility Name: Hookers Point Station				
3. Facility Identification	Number: 0570038				
4. Facility Location Infor	mation :				
Tampa Electric Compa 1700 Hemlock Street, T Existing, Permitted Fac	<u> </u>				
· · · · · · · · · · · · · · · · · · ·	ss: Foot of Hemlock Stre	et			
	ty : Tampa ty : Hillsborough	Zip Code : 3	33605		
5. Facility UTM Coordinate	ates :				
Zone : 17	East (km): 358.	00 North (km)	: 3091.00		
6. Facility Latitude/Long	itude:				
Latitude (DD/MM/SS) :	Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :				
7. Governmental Facility Code :	8. Facility Status Code :	9. Relocatable Facility ?	10. Facility Major Group SIC Code :		
0	A	N	49		
11. Facility Comment :					

Facility Contact

1.	Name	and	Title	of	Facility	Contact	
	1 101110	\sim 1 \sim		\sim .			

Name: Forest A. Chick

Title: Environmental Coordinator

2. Facility Contact Mailing Address:

Organization/Firm: Tampa Electric Company

Street Address: 1700 Hemlock Street

City: Tampa

State: FL

Zip Code: 33605-____

3. Facility Contact Telephone Numbers:

Telephone: (813)275-3215

Fax: (813)275-3274

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	Y
7. Synthetic Minor Source of HAPs?	· N
8. One or More Emissions Units Subject to NSPS?	N
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	.4

B. FACILITY REGULATIONS

E	Rule Applicability Analysis
	NA

B. FACILITY REGULATIONS

List of Applicable Regulations

See Appendix A

C. FACILITY POLLUTANT INFORMATION

Facility Pollutant Information	Pollutant1	
1. Pollutant Emitted :		
2. Estimated Emissions :	(tons/year)	
3. Requested Emissions Cap :		
	(lbs/hour)	(tons/year)
4. Basis for Emissions Cap Code :		
5. Facility Pollutant Comment :		
Facility Pollutant Codes: A - CO, NOX, PM, PM10, SO2, ISM - None B - None	H106 (HCl), and H107 (HF).	

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

Area Map Showing Facility Location :	II.D.1
2. Facility Plot Plan :	II.D.2
3. Process Flow Diagram(s):	II.D.3
4. Precautions to Prevent Emissions of Unconfined Particulate	Matter : II.D.4
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Application	n: NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Insignificant Activities :	II.D.7
8. List of Equipment/Activities Regulated under Title VI:	NA .
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions Trading) :	NA -:
11. Enhanced Monitoring Plan :	NA
12. Risk Management Plan Verification :	NA
13. Compliance Report and Plan :	II.D.13
14. Compliance Statement (Hard-copy Required) :	II.D.14

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emi	ssions Unit Information Section1
Unit	No. 1; Residual Fuel Oil-Fired Steam Generator
Туре	e of Emissions Unit Addressed in This Section
[x] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section :				
Unit No. 1; Residual Fuel Oil-Fir	red Steam Generator			
2. ARMS Identification Number	: 001			
3. Emissions Unit Status Code :	4. Acid Rain Unit?	5. Emissions Unit Major Group SIC Code :		
A	Y	49		
6. Initial Startup Date:				
7. Long-term Reserve Shutdow	n Date :			
8. Package Unit:				
Manufacturer : Model Number :				
9. Generator Nameplate Rating : 20 MW				
10. Incinerator Information :				
1	mperature : °F Swell Time : seco	ando		
Dwell Time: seconds Incinerator Afterburner Temperature: °F				
11. Emissions Unit Comment :				
See process flow diagram in Document II.D.3. Babcock & Wilcox steam boiler. Unit Nos. 1 through 5 are ducted to a common steam header which feeds four steam turbine/generators. Generator nameplate rating (Field 9) is based on maximum steam flow from Unit No. 1.				

Emissions Unit Information Section	1		
Emissions Unit Control Equipment	11		-
1. Description :			
None			
2. Control Device or Method Code :			

Emissions Unit Information Section 1	_
Unit No. 1; Residual Fuel Oil-Fired Steam Generator	

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	298 mmBtu	tu/hr
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :		."
	Units:		
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :	_	
	Maximum heat input rate is 298 MMBtu/hr dete (lbs) and hours, and (2) previous year average st and station steam generation (lbs).	_	- · · · -

Emissions Unit Information Section	1
Unit No. 1; Residual Fuel Oil-Fired Steam Gene	erator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week
52 weeks/year	8760 hours/year
	•

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	1	
Unit No. 1; Residual Fuel Oil-Fired Steam C	enerator	
Rule Applicability Analysis		
NA		
		•••

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	1		
Unit No. 1; Residual Fuel Oil-Fired Steam Ge	nerator		
List of Applicable Regulations			
See Appendix A			

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information	Section	1

Unit No. 1; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram :	CS-001		
2.	Emission Point Type Code: 2			
3.	Descriptions of Emission Points Comprising this Emissi	ons Unit :		
	NA A			
4.	ID Numbers or Descriptions of Emission Units with this	Emission Point	in Co	mmon :
	Unit No. 1 (CS-001), Unit No. 2 (CS-002), and Unit No. 5 (C	CS-005)		
5.	Discharge Type Code :	V		
6.	Stack Height :	280	feet	
7.	Exit Diameter :	11.2	feet	
8.	Exit Temperature :	369	°F	
9	Actual Volumetric Flow Rate :	132268	acfm	
10.	Percent Water Vapor :		%	
11.	Maximum Dry Standard Flow Rate :		dscfn	า
12.	Nonstack Emission Point Height:		feet	
13.	Emission Point UTM Coordinates :		•	-:
	Zone: 17 East (km): 358.000	North (km	n):	3091.000
14.	Emission Point Comment :			
	Stack temperature and flow rate data represent Unit No. 1 on based on 7/13/94 source test.	ly (duct measurer	nents į	prior to main stack)

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1	-
Unit No. 1; Residual Fuel Oil-Fired Steam Generator	
Segment Description and Rate : Segment	1
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):
Residual (No. 6) fuel oil burned in Unit No. 1.	
2. Source Classification Code (SCC): 1-01-0	004-01
3. SCC Units: Thousand Gallons Burned (all liqu	uid fuels)
4. Maximum Hourly Rate: 1.96	5. Maximum Annual Rate: 17,151.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur : 1.00	8. Maximum Percent Ash: 0.10
9. Million Btu per SCC Unit: 152	
10. Segment Comment :	
No. 2 fuel oil used for ignition during start-up (Se	ee Segment 2)
Btu per SCC unit value (Field 9) based on averag	e fuel heat content of 152,210 Btu/gal.
No. 6 fuel oil may be supplemented with used oil boiler chemical cleaning waste.	and up to 50 gallons per minute of non-hazardous

III. Part 8 - 1

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1				
Unit No. 1; Residual Fuel Oil-Fired Steam Generator				
Segment Description and Rate: Segment	2			
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):			
Distillate (No. 2) fuel oil burned in Unit No. 1 for	startup.			
2. Source Classification Code (SCC): 1-01-0	005-01			
3. SCC Units: Thousand Gallons Burned (all liq	uid fuels)			
4. Maximum Hourly Rate: 1.06	5. Maximum Annual Rate: 212.00			
6. Estimated Annual Activity Factor: 0.00				
7. Maximum Percent Sulfur: 0.50	8. Maximum Percent Ash :			
9. Million Btu per SCC Unit: 136	·			
10. Segment Comment :				
No. 2 fuel oil used for ignition during startup.				
Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.				
Maximum annual rate (Field 5) based on firing No. 2 oil for startup for 200 hrs/yr.				

III. Part 8 - 2

DEP Form No. 62-210.900(1) - Form

E. POLLUTANT INFORMATION

		-	-	,		•	
Unit 1	No. 1; Residual Fuel Oil-Fired Steam Gen	erator					
<u>Pollu</u>	<u>stant Potential/Estimated Emissions</u>	<u>s :</u>	Polluta	nt	1		
1. P	Pollutant Emitted :	SO2					·
2. T	otal Percent Efficiency of Control :	0.00	,	%			
3. P	Primary Control Device Code :						
4. S	Secondary Control Device Code :						
5. P	Potential Emissions : 327.80	lb/hou	ar -		1,435.80	tons/year	
6. S	Synthetically Limited? N						
7. R	lange of Estimated Fugitive/Other En	nissions	S :		to		tons/year
8. E	imissions Factor : 1.10 Units : lb/MMBtu Reference : Allowable emiss	ion					
9. E	missions Method Code :					·	
10.	Calculations of Emissions :						
	See Appendix C						
11.	Pollutant Potential/Estimated Emission	ons Cor	mment	•			
	Potential emissions set equal to allowable	e emissi	ons.				
	Emission Unit Pollutant Codes:						

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

Emis	sions Unit Information Se	ection	<u>l</u>		
	tant Information Section	1			
1. B	asis for Allowable Emissior	ns Code :	RULE		
2. F	uture Effective Date of Allo	wable Emissic	ons :		
3. R	equested Allowable Emiss	ions and Units	: 1.10	lb/M	IMBtu
4. E	quivalent Allowable Emissi	ons :			
		327.80	lb/hour	1,435.80	tons/year
5. N	lethod of Compliance :				
A	annual fuel analysis.				
6. P	ollutant Allowable Emission	ns Comment ([Desc. of Related	Operating Me	thod/Mode) :
F	DEP Rule 62-296.405(1)(c)1.	d., F.A.C.			<i>2</i> 9

E. POLLUTANT INFORMATION

Emissions ont information section			,	
Unit No. 1; Residual Fuel Oil-Fired Steam Genera	tor			
Pollutant Potential/Estimated Emissions:	Pollutant 2	<u> </u>		
1. Pollutant Emitted : P	M			
2. Total Percent Efficiency of Control: 0	.00 %			
3. Primary Control Device Code :			.~	
4. Secondary Control Device Code :	,			
5. Potential Emissions : 29.80	b/hour 16	63.20	tons/year	
6. Synthetically Limited? N	-			
7. Range of Estimated Fugitive/Other Emis	sions:	to		tons/year
8. Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable emission	ns			
9. Emissions Method Code :				
10. Calculations of Emissions :			-:	-11
See Appendix C				
11. Pollutant Potential/Estimated Emissions	Comment:		. ,	
Potential emissions set equal to allowable e Emission factor of 0.3 lb/MMBtu applicab Annual PM emission rate based on 3 hrs/da	le during soot blowing.	hrs/day non-s	soot blowin	g.

Em	Emissions Unit Information Section1					
	Ilutant Information Section 2					
1.	Basis for Allowable Emissions Code : RULE					
2.	Future Effective Date of Allowable Emissions :					
3.	Requested Allowable Emissions and Units : 0.10 lb/MMBtu					
4.	Equivalent Allowable Emissions :					
	29.80 lb/hour 163.20 tons/year					
5.	Method of Compliance :					
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					
	0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.					

Emissions Unit Information Section1_				
Pollutant Information Section 2				
Allowable Emissions 2				
1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units: 0.30 lb/MMBtu				
4. Equivalent Allowable Emissions :				
89.40 lb/hour 163.20 tons/year				
5. Method of Compliance :				
Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

Emissions Unit Information Section 1				
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation1			
1.	Visible Emissions Subtype : VE			
2.	Basis for Allowable Opacity: RULE			
3.	Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % 40% 3 2 MIN/hr. Maximum Period of Excess Opacity Allowed: 6 min/hour			
	Method of Compliance : Annual test using EPA Reference Method 9.			
	Visible Emissions Comment: FDEP Rule 62-296.405(1)(a), F.A.C.			

Emissions Unit Information Section 1				
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation 2			
1.	Visible Emissions Subtype : VES			
2.	Basis for Allowable Opacity: RULE			
3.	Requested Allowable Opacity :			
	Normal Conditions : %			
	Exceptional Conditions: 100 %			
	Maximum Period of Excess Opacity Allowed: 24 min/hour			
4.	Method of Compliance :			
5.	Visible Emissions Comment :			
	Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes. FDEP Rule 62-210.700(3), F.A.C.			

Emissions Unit Information Section 1				
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 3				
1. Visible Emissions Subtype: VES				
2. Basis for Allowable Opacity: RULE				
3. Requested Allowable Opacity :				
Normal Conditions : %				
Exceptional Conditions: 60 %				
Maximum Period of Excess Opacity Allowed: 60 min/hour				
4. Method of Compliance :				
5. Visible Emissions Comment :				
Excess emissions shall not exceed 3 hrs in any 24-hr period. FDEP Rule 62-210.700(3), F.A.C.				

Emissions Unit Information Section 1				
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation 4			
1.	Visible Emissions Subtype : VEX			
2.	Basis for Allowable Opacity: RULE			
3.	Requested Allowable Opacity :			
	Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour			
4.	Method of Compliance :			
5.	Visible Emissions Comment :			
	Applicable for excess emissions resulting from boiler startups and shutdowns. FDEP Rule 62-210.700(2), F.A.C.			

Emissions Unit Information Section1					
Unit No. 1; Residual Fuel Oil-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 1			
1.	Parameter Code :	VE			
2.	CMS Requirement :	RULE			
3.	Monitor Information :	·			
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 400 400B-48885-B70/			
4.	Installation Date :	15-Aug-1994			
5.	5. Performance Specification Test Date : 26-Oct-1994				
6.	6. Continuous Monitor Comment: Required per 40 CFR Part 75. COMS installed on Stack No. 1 - common stack for Unit Nos. 1, 2, and 5.				

Emissions Unit Information Section1						
Un	Unit No. 1; Residual Fuel Oil-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 2				
1.	Parameter Code :	SO2				
		· · · · · · · · · · · · · · · · · · ·				
2.	CMS Requirement :	RULE				
		<u> </u>				
3.	Monitor Information :					
	Manufacturer:	Thermo Environmental Corporation				
	Model Number:	43B				
	Serial Number :	43B-48334-280				
4.	Installation Date :	15-Aug-1994				
5.	5. Performance Specification Test Date: 26-Oct-1994					
6.	6. Continuous Monitor Comment :					
	Required per 40 CFR Part 7	5.				
	CEMS installed on Stack No	o. 1 - common stack for Unit Nos. 1, 2, and 5.				

Emissions Unit Information Section1				
Unit No. 1; Residual Fuel Oil-Fired Steam Generator				
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor3		
1.	Parameter Code :	NOX		
2.	CMS Requirement :	RULE		
3.	Monitor Information :	a a		
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-48741-281		
4.	Installation Date :	15-Aug-1994		
5.	Performance Specification	on Test Date: 26-Oct-1994		
6.	6. Continuous Monitor Comment :			
	Required per 40 CFR Part CEMS installed on Stack N	75. lo. 1 - common stack for Unit Nos. 1, 2, and 5.		

En	Emissions Unit Information Section1				
Unit No. 1; Residual Fuel Oil-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	tem: Con	tinuous Monitor	4	
1.	Parameter Code :	FLOW			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	USI Ultraflow 100 9401635			·
4.	Installation Date :		15-Aug-1994		
5.	Performance Specification	on Test Date :	26-Oct-1994	-	
6.	Continuous Monitor Com	ment :			
	Required by 40 CFR Part 7 CEMS installed on Stack N		tack for Unit Nos. 1, 2, an	d 5.	

Emissions Unit Information Section1					
Unit No. 1; Residual Fuel Oil-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	tem: Con	tinuous Monitor	5	
1.	Parameter Code :	CO2			jet.
2.	CMS Requirement :	RULE	·		
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	Siemens Ultramat 5E E3-793			
4.	Installation Date :		15-Aug-1994		
5.	Performance Specification	n Test Date :	26-Oct-1994	<u> </u>	
6.	Continuous Monitor Com	ment :			p#
	Required by 40 CFR Part 7. CEMS installed on Stack N		tack for Unit Nos. 1,	2, and 5.	

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Ε	missions Unit Information Section1_
U	nit No. 1; Residual Fuel Oil-Fired Steam Generator
P	SD Increment Consumption Determination
1.	Increment Consuming for Particulate Matter or Sulfur Dioxide?
[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction afte January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[]	X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2.	Increment Consuming for Nitrogen Dioxide?						
[[] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.						
[The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.						
[emissions unit	• •	ed as an EPA major source, and the ry 8, 1988, but before March 28, 1988. If it consumes increment.				
[, the emissions unit began (or will be emissions are zero, and emissions (egin) initial operation after March 28, 1988. unit consumes increment.				
[X	such case, add whether chang	litional analysis, beyond the scope o	s of the emissions unit are nonzero. In of this application, is needed to determine vill occur) after the baseline date that may				
3.	Increment Cons	uming/Expanding Code :					
	PM:	U					
	SO2 :	Ü					
	NO2 :	U					
4.	Baseline Emissi	ons :	· ·				
	514						
	PM :	lb/hour	tons/year				
	SO2 : NO2 :	lb/hour	tons/year				
	NU2 :		tons/year				
5.	PSD Comment :						
	Emission unit is pa	art of baseline PSD emission inventory.					

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section1				
Unit No. 1; Residual Fuel Oil-Fired Steam Generator				
Supplemental Requirements for All Applications				
1. Process Flow Diagram :	II.D.3			
2. Fuel Analysis or Specification :	· III.I.2			
3. Detailed Description of Control Equipment :	NA			
4. Description of Stack Sampling Facilities :	III.I.4			
5. Compliance Test Report :	NA			
6. Procedures for Startup and Shutdown :	III.I.6			
7. Operation and Maintenance Plan :	III.I.7			
8. Supplemental Information for Construction Permit Application :	NA			
9. Other Information Required by Rule or Statue :	NA			
Additional Supplemental Requirements for Category I Application	s Only			
10. Alternative Methods of Operations :	III.I.10			
11. Alterntive Modes of Operation (Emissions Trading):	NA			
12. Enhanced Monitoring Plan :	III.I.12			

III. Part 13 - 1

DEP Form No. 62-210.900(1) - Form

13. Identification of A	dditional Applicable Requirements : Appendix A
4. Acid Rain Applic	tion (Hard-copy Required) :
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emi	ssions Unit Information Section2_
Unit	No. 2; Residual Fuel Oil-Fired Steam Generator
Тур	e of Emissions Unit Addressed in This Section
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
]] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2	
	2

Emissions Unit Description and Status

1. Description of Emissions Unit	t Addressed in This Se	ction :	
Unit No. 2; Residual Fuel Oil-Fin	red Steam Generator		
2. ARMS Identification Number	: 002		
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Emissions Unit Major Group SIC Code :
A		Y	49
6. Initial Startup Date :			
7. Long-term Reserve Shutdow	n Date :		
8. Package Unit :			
Manufacturer : Model Number :			
9. Generator Nameplate Rating	g: 20 MW		
10. Incinerator Information :	_		
	mperature :	°F	.
Incinerator Afterburner Te	owell Time : emperature :	sec °F	onds
11. Emissions Unit Comment :			
See process flow diagram in D Babcock & Wilcox steam boil Unit Nos. 1 through 5 are duct Generator nameplate rating (F	er. ted to a common steam he		ch feeds four steam turbine/generators. flow from Unit No. 2.

Emissions Unit Information Section	2		
Emissions Unit Control Equipment	1		
1. Description :			
None			
2. Control Device or Method Code :		 	

Emissions Unit Information Section	2
Unit No. 2; Residual Fuel Oil-Fired Steam Genera	ator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	298 mmBtu/hr	
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :		
	Units:		
4.	Maximum Production Rate :		
	Units:		
5.	Operating Capacity Comment :		, ,
	Maximum heat input rate is 298 MMBtu/hr dete (lbs) and hours, and (2) previous year average st and station steam generation (lbs)	• , ,	

Emissions Unit Information Section	2

Unit No. 2; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section2_
Unit No. 2; Residual Fuel Oil-Fired Steam Generator
Rule Applicability Analysis
NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	2	
---	---	--

Unit No. 2; Residual Fuel Oil-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information	Section	2

Unit No. 2; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identificati	on of Point on	Plot Plan or Flo	w Diagram :	CS-002		
2.	Emission I	Point Type Cod	de :	2			
3.	Descriptio	ns of Emission	Points Compris	sing this Emissio	ns Unit :		
	NA						
4.	ID Numbe	rs or Description	ons of Emission	Units with this E	mission Point	in Co	mmon :
	Unit No. 1	(CS-001), Unit 1	No. 2 (CS-002), a	and Unit No. 5 (CS	3-005)		
5.	Discharge	Type Code :			V		
6.	Stack Heig	ght :			280	feet	
7.	Exit Diame	eter :			11.2	feet	
8.	Exit Temp	erature :			351	°F	
9.	Actual Vol	umetric Flow R	late:		142547	acfm	
10	. Percent \	Water Vapor :				%	
11	. Maximun	n Dry Standard	Flow Rate:			dscfm	1
12	. Nonstack	Emission Poir	nt Height :			feet	
13	. Emission	Point UTM Co	ordinates :				
	Zone :	17	East (km):	358.000	North (km	1):	3091.000
14	. Emission	Point Comme	nt :				
		perature and flow 6/22/94 source te		ent Unit No. 2 only	(duct measurer	ments p	orior to main stack)

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2	_						
Unit No. 2; Residual Fuel Oil-Fired Steam Generator							
Segment Description and Rate: Segment1							
Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :							
Residual (No. 6) fuel oil burned in Unit No. 2.							
2. Source Classification Code (SCC): 1-01-004-01							
3. SCC Units: Thousand Gallons Burned (all lique)	uid fuels)						
4. Maximum Hourly Rate : 1.96	5. Maximum Annual Rate: 17,151.00						
6. Estimated Annual Activity Factor :							
7. Maximum Percent Sulfur : 1.00	8. Maximum Percent Ash: 0.10						
9. Million Btu per SCC Unit: 152							
10. Segment Comment :							
Btu per SCC unit value (Field 9) based on average fuel heat content of 152,210 Btu/gal.							
No. 6 fuel oil may be supplemented with used oil boiler chemical cleaning waste.	and up to 50 gallons per minute of non-hazardous						

III. Part 8 - 2

E. POLLUTANT INFORMATION

Emissions Unit Information Section			
Unit No. 2; Residual Fuel Oil-Fired Steam Gen	erator		
Pollutant Potential/Estimated Emissions	s: Pollutant	1	
1. Pollutant Emitted :	SO2		
2. Total Percent Efficiency of Control :	0.00 %		
3. Primary Control Device Code :			
4. Secondary Control Device Code :			
5. Potential Emissions : 327.80	lb/hour	1,435.80	tons/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other En	nissions:	to	tons/year
8. Emissions Factor : 1.10 Units : Ib/MMBtu Reference : Allowable emiss	sions		·
9. Emissions Method Code :			
10. Calculations of Emissions :			
See Appendix C			
11. Pollutant Potential/Estimated Emission	ons Comment :		
Potential emissions set equal to allowable	e emissions.		
Emission Unit Pollutant Codes:			

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

Emissions Unit Information Section2							
Pollutant Information Section	1 .						
Allowable Emissions 1	-						
1. Basis for Allowable Emission	s Code :	RULE					
2. Future Effective Date of Allov	wable Emissio	ns :					
3. Requested Allowable Emission	ons and Units	: 1.10	lb/Ml	MBtu			
Equivalent Allowable Emission	ons :	_					
	327.80	lb/hour	1,435.80	tons/year			
5. Method of Compliance :							
Annual fuel analysis.							
6. Pollutant Allowable Emission	s Comment (D	Desc. of Related C	perating Meth	nod/Mode) :			
FDEP Rule 62-296.405(1)(c)1.6	I., F.A.C.						

E. POLLUTANT INFORMATION

	issions officialion action		_			
Unit	No. 2; Residual Fuel Oil-Fired Steam Ge	nerator				
Pol	lutant Potential/Estimated Emission	ns :	Pollutant _	2		
1.	Pollutant Emitted :	PM				
2.	Total Percent Efficiency of Control :	0.00	%			
3.	Primary Control Device Code :					
4.	Secondary Control Device Code :					
5.	Potential Emissions: 29.80	ib/hou	ır	163.20	tons/year	
6.	Synthetically Limited? N					
7.	Range of Estimated Fugitive/Other E	missions	S:	to		tons/year
8.	Emissions Factor : 0.30 Units : 1b/MMBtu					
	Reference: Allowable emis	ssions				
9.	Emissions Method Code :					
10.	Calculations of Emissions :			_	.et	
	See Appendix C					
11.	Pollutant Potential/Estimated Emiss	ions Cor	mment :			
	Potential emissions set equal to allowab	ole emissi	ons.			
	Emission factor of 0.3 lb/MMBtu applicable during soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.					

Emissions Unit Information Section2						
Pollutant Information Section2						
Allowable Emissions 1						
Basis for Allowable Emissions Code : RULE						
2. Future Effective Date of Allowable Emissions :						
3. Requested Allowable Emissions and Units: 0.10 lb/MMBtu						
4. Equivalent Allowable Emissions :						
29.80 lb/hour 163.20 tons/year						
5. Method of Compliance :						
Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.						
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :						
0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.						

Em	ssions Unit Information Section 2						
Pol	Pollutant Information Section 2						
Allo	wable Emissions 2						
1.	Basis for Allowable Emissions Code : RULE						
2.	Future Effective Date of Allowable Emissions :						
3.	Requested Allowable Emissions and Units : 0.30 lb/MMBtu						
4.	Equivalent Allowable Emissions :						
	89.40 lb/hour 163.20 tons/year						
5.	Method of Compliance :						
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.						
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :						
	0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.						

Emissions Unit Information Section 2					
isible Emissions Limitation	: Visible Emission	ns Limi	tation 1		
Visible Emissions Subtype	: VE				
2. Basis for Allowable Opacit	y: RULE				
3. Requested Allowable Opa	city:			,·· ·	
	Normal Conditions :	20	%		
Exc	ceptional Conditions:	27	%		
Maximum Period of Exc	cess Opacity Allowed :	6	min/hour		
4. Method of Compliance :					
Annual test using EPA Refere	nce Method 9.				
5. Visible Emissions Comme	nt:				
FDEP Rule 62-296.405(1)(a),	F.A.C.			·	
Annual test using EPA Refere 5. Visible Emissions Comme	nt :				

<u>/isible Emissions Limitation :</u>	Visible Emission	s Limi	tation 2
1. Visible Emissions Subtype :	VES		
2. Basis for Allowable Opacity :	RULE		
3. Requested Allowable Opacity :		•	
Norr	mal Conditions :		%
	nal Conditions :	100	%
Maximum Period of Excess (Opacity Allowed :	24	min/hour
4. Method of Compliance :			
5. Visible Emissions Comment :			
Visible emissions above 60 percent of FDEP Rule 62-210.700(3), F.A.C.	opacity are allowed	during b	oiler cleaning and load changes.

Emissions Unit Information Section 2					
Visible Emissions Limitation :	Visible Emissions Li	imitation3_			
1. Visible Emissions Subtype :	VES				
2. Basis for Allowable Opacity:	RULE				
3. Requested Allowable Opacity	:				
No	rmal Conditions :	%			
	onal Conditions: 60				
Maximum Period of Excess					
4. Method of Compliance :					
5. Visible Emissions Comment :	•				
Excess emissions shall not exceed FDEP Rule 62-210.700(3), F.A.C.					

Emissions Unit Information Section2_						
Visible Emissions Limitation :	Visible Emission	s Limit	tation 4			
Visible Emissions Subtype :	VEX					
2. Basis for Allowable Opacity:	RULE					
3. Requested Allowable Opacity:						
Norm	al Conditions :		%			
Exception	al Conditions :	100	%			
Maximum Period of Excess O		60	min/hour			
4. Method of Compliance :						
	·		**			
5. Visible Emissions Comment :						
Applicable for excess emissions result FDEP Rule 62-210.700(2), F.A.C.	ting from boiler sta	artups an	nd shutdowns.			

Em	Emissions Unit Information Section 2					
Un	it No. 2; Residual Fuel Oil-Fi	red Steam Generator				
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 1				
1.	Parameter Code :	VE				
2.	CMS Requirement :	RULE				
3.	Monitor Information :	<u> </u>				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 400 400B-48885-B70/				
4.	Installation Date :	15-Aug-1994				
5.	Performance Specificatio	n Test Date: 26-Oct-1994				
6.	Continuous Monitor Com	ment :				
	Required per 40 CFR Part 75. COMS installed on Stack No. 1 - common stack for Unit Nos. 1, 2, and 5.					

Emissions Unit Information Section 2					
Un	it No. 2; Residual Fuel Oil-Fi	ired Steam Generator			
Continuous Monitor 2					
1.	Parameter Code :	SO2			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48334-280			
4.	Installation Date :	15-Aug-1994			
5.	Performance Specification Test Date : 26-Oct-1994				
6.	Continuous Monitor Comment : Required per 40 CFR Part 75.				
	CEMS installed on Stack N	o. 1 - common stack for Unit Nos. 1, 2, and 5.			

Emissions Unit Information Section 2					
Un	it No. 2; Residual Fuel Oil-F	ired Steam Generator	. •		
Continuous Monitoring System: Continuous Monitor 3					
1.	Parameter Code :	NOX			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-48741-281			
4.	Installation Date :	15-Aug-1994			
5.	Performance Specification	on Test Date: 26-Oct-1994	.4		
6.	Continuous Monitor Comment :				
	Required per 40 CFR Part CEMS installed on Stack N	75. o. 1 - common stack for Unit Nos. 1, 2, and 5.			

Emissions Unit Information Section2							
Uni	Unit No. 2; Residual Fuel Oil-Fired Steam Generator						
<u>Co</u>	Continuous Monitoring System: Continuous Monitor 4						
1.	Parameter Code :	FLOW		•			
2.	CMS Requirement :	RULE			· ,		
3.	Monitor Information :			·			
	Manufacturer : Model Number : Serial Number :	USI Ultraflov 9401635					·
4.	Installation Date :			15-Aug-1994			
5.	Performance Specificatio	n Test Da	ate :	26-Oct-1994			
6.	Continuous Monitor Com	ment :					
	Required by 40 CFR Part 7: CEMS installed on Stack N		non sta	ack for Unit Nos. 1	, 2, and 5.	.**	

Em	Emissions Unit Information Section 22						
Uni	Unit No. 2; Residual Fuel Oil-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem: Co	ontinuous Monitor5				
1.	Parameter Code :	CO2					
				a .			
2.	CMS Requirement :	RULE					
				•			
3.	Monitor Information :		•				
	Manufacturer:	Siemens					
	Model Number:	Ultramat 5E	;	•			
	Serial Number :	E3-793					
4.	Installation Date :		15-Aug-1994	,			
5.	Performance Specification	n Test Date	: 26-Oct-1994				
			•				
6.	Continuous Monitor Com	ment :					
	Required by 40 CFR Part 7			•1			
	CEMS installed on Stack N	o. 1 - common	stack for Unit Nos. 1, 2, and 5.				
				-			

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2
Unit No. 2; Residual Fuel Oil-Fired Steam Generator
PSD Increment Consumption Determination
1. Increment Consuming for Particulate Matter or Sulfur Dioxide?
[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2.	2. Increment Consuming for Nitrogen Dioxide?					
[] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.					
] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.					
]	emissions unit	began initial operation after	classified as an EPA major source, and the February 8, 1988, but before March 28, 1988. If sions unit consumes increment.			
[•		or will begin) initial operation after March 28, 1988. issions unit consumes increment.			
[X	such case, add whether chang	ditional analysis, beyond the	missions of the emissions unit are nonzero. In scope of this application, is needed to determine red (or will occur) after the baseline date that may			
3.	Increment Cons	uming/Expanding Code :				
	PM : SO2 : NO2 :	U U U				
4.	Baseline Emissi	ons :				
	PM : SO2 : NO2 :	lb/hour lb/hour	tons/year tons/year tons/year			
5.	PSD Comment :	:				
	Emission unit is pa	art of baseline PSD emission in	ventory.			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2	
Unit No. 2; Residual Fuel Oil-Fired Steam Generator	
Supplemental Requirements for All Applications	·•
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	NA .
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA
Additional Supplemental Requirements for Category I Application	s Only
10. Alternative Methods of Operations :	NA ·
11. Alterntive Modes of Operation (Emissions Trading):	NA .
12. Enhanced Monitoring Plan :	III.I.12
	,

4. Acid Rain Applic	ation (Hard-copy Required) :
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emi	ssions Unit Information Section 3
Unit	No. 3; Residual Fuel Oil-Fired Steam Generator
Тур	e of Emissions Unit Addressed in This Section
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit	t Addressed in This	Section :		
Unit No. 3; Residual Fuel Oil-Fin	red Steam Generator			
			-	
2. ARMS Identification Number	003			
3. Emissions Unit Status Code :	4. Acid Rain Unit	?	5. Emissions Unit Group SIC Code :	•
A		Y		49
6. Initial Startup Date :				
7. Long-term Reserve Shutdow	n Date :			
8. Package Unit :				
Manufacturer :				
Model Number :				
9. Generator Nameplate Rating	g: 35 N	МW		
10. Incinerator Information :				
Dwell Te	mperature :	• F		
	Well Time:	sec	onds	
Incinerator Afterburner Te	emperature :	*F		
11 Emissions Unit Commont:	_			

11. Emissions Unit Comment:

See process flow diagram in Document II.D.3.

Babcock & Wilcox steam boiler.

Unit Nos. 1 through 5 are ducted to a common steam header which feeds four steam turbine/generators. Generator nameplate rating (Field 9) is based on maximum steam flow from Unit No. 3.

Emissions Unit Information Section	3	
Emissions Unit Control Equipment	1	
1. Description :		
None		
		. "
2. Control Device or Method Code :		

Emissions Unit Information Section	3

Unit No. 3; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	411 mmBtu/hr	
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :		
	Units :		
4.	Maximum Production Rate :		
	Units:		
5.	Operating Capacity Comment :		
	Maximum heat input rate is 411 MMBtu/hr deta (lbs) and hours, and (2) previous year average s and station steam generation (lbs)		
			**

Emissions 1	Unit	Information	Section
-------------	------	-------------	---------

3

Unit No. 3; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	3				
Unit No. 3; Residual Fuel Oil-Fired Steam Generator					
Rule Applicability Analysis					
NA					

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit Information Section	3
-----------	---------------------------------	---

Unit No. 3; Residual Fuel Oil-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit Information Section	3

Unit No. 3; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identification	on of Point on	Plot Plan or Flo	w Diagram :	CS-003		
2.	Emission F	Point Type Cod	le:	2		,	
3.	Description	ns of Emission	Points Compris	ing this Emissio	ns Unit :		
	NA						
4.	ID Number	rs or Descriptio	ns of Emission	Units with this E	mission Point	in Co	mmon :
	Unit No. 3	(CS-003) and U	nit No. 4 (CS-004	•)			
5.	Discharge	Type Code:	_		v		
6.	Stack Heig	ght:			280	feet	
7.	Exit Diame	eter:			11.2	feet	
8.	Exit Tempo	erature :			330	°F	·
9.	Actual Vol	umetric Flow R	ate :		206528	acfm	~
10.	Percent V	Nater Vapor :				%	
11.	Maximum	Dry Standard	Flow Rate:			dscfm	1.
12.	Nonstack	Emission Poir	nt Height:			feet	
13.	Emission	Point UTM Co	ordinates :				
	Zone :	17	East (km):	358.000	North (km	1):	3091.000
14.	Emission	Point Comme	nt :				
	-	perature and flow 1/22/94 source te	•	ent Unit No. 3 only	(Unit No. 4 no	t in ope	eration during test)

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3	_				
Unit No. 3; Residual Fuel Oil-Fired Steam Generator					
Segment Description and Rate : Segment	1				
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):				
Residual (No. 6) fuel oil burned in Unit No. 3.					
2. Source Classification Code (SCC): 1-01-0	004-01				
3. SCC Units: Thousand Gallons Burned (all liqu	uid fuels)				
4. Maximum Hourly Rate: 2.70	5. Maximum Annual Rate: 23,654.00				
6. Estimated Annual Activity Factor:					
7. Maximum Percent Sulfur : 1.00	8. Maximum Percent Ash: 0.10				
9. Million Btu per SCC Unit: 152					
10. Segment Comment :					
Btu per SCC unit value (Field 9) based on average fuel heat content of 152,210 Btu/gal.					
No. 6 fuel oil may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.					

III. Part 8 - 3

E. POLLUTANT INFORMATION

Emissions Unit Information Section 3		
Unit No. 3; Residual Fuel Oil-Fired Steam Generator		
Pollutant Potential/Estimated Emissions : Pollutant	1	
1. Pollutant Emitted : SO2		
2. Total Percent Efficiency of Control: 0.00 %		
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions: 452.10 lb/hour	1,980.20	tons/year
6. Synthetically Limited? N		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor : 1.10 Units : lb/MMBtu	_	
Reference: Allowable emissions		-
Reference: Allowable emissions 9. Emissions Method Code:		
9. Emissions Method Code :		
9. Emissions Method Code : 10. Calculations of Emissions :		
9. Emissions Method Code : 10. Calculations of Emissions : See Appendix C		

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

Emi	ssions Unit Information Se	ection 3	<u> </u>		
Poll	utant Information Section	1			
Allo	wable Emissions 1	_			
1.	Basis for Allowable Emission	ns Code :	RULE		
2.	Future Effective Date of Allo	owable Emissio	ns :		
3.	Requested Allowable Emiss	ions and Units	: 1.10	lb/M	MBtu
4.	Equivalent Allowable Emissi	ions :			
		452.10	lb/hour	1,980.20	tons/year
5.	Method of Compliance :				·
	Annual fuel analysis.				
6.	Pollutant Allowable Emission	ns Comment (E	Desc. of Related	Operating Met	hod/Mode) :
	FDEP Rule 62-296.405(1)(c)1.	d., F.A.C.			

E. POLLUTANT INFORMATION

Linissions Onk information Section							
Unit No. 3; Residual Fuel Oil-Fired Steam Generator							
Pollutant Potential/Estimated Emissions	Pollutant Potential/Estimated Emissions : Pollutant2						
1. Pollutant Emitted :	PM		·				
2. Total Percent Efficiency of Control :	0.00 %						
3. Primary Control Device Code :							
4. Secondary Control Device Code :							
5. Potential Emissions: 123.30	lb/hour	225.00	tons/year				
6. Synthetically Limited? N							
7. Range of Estimated Fugitive/Other En	nissions:	to	tons/year				
8. Emissions Factor: 0.30							
Units: lb/MMBtu							
Reference: Allowable emiss	sions		·				
9. Emissions Method Code :							
10. Calculations of Emissions :							
See Appendix C							
11. Pollutant Potential/Estimated Emission	ons Comment :						
Potential emissions set equal to allowable emissions. Emission factor of 0.3 lb/MMBtu applicable during soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.							

Emissions Unit Information Section3				
Pollutant Information Section2 Allowable Emissions 1				
Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units: 0.10 lb/MMBtu				
4. Equivalent Allowable Emissions :				
41.10 lb/hour 225.00 tons/year				
5. Method of Compliance :				
Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

Em	nissions Unit Information Section3_				
	Ilutant Information Section 2 owable Emissions 2				
1.	Basis for Allowable Emissions Code : RULE				
2.	Future Effective Date of Allowable Emissions :				
3.	Requested Allowable Emissions and Units: 0.30 lb/MMBtu				
4.	Equivalent Allowable Emissions :				
	123.30 lb/hour 225.00 tons/year				
5.	Method of Compliance :				
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):				
-	0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

Visible Emissions Limitation : Visible Emiss	sions Limitation1_
Visible Emissions Subtype : VE	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity:	
Normal Conditions	s: 20 %
Exceptional Conditions	
Maximum Period of Excess Opacity Allowed	ed: 6 min/hour
4. Method of Compliance :	
Annual test using EPA Reference Method 9.	
5. Visible Emissions Comment :	
FDEP Rule 62-296.405(1)(a), F.A.C.	

· .
_

Emissions Unit Information Section3	
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 3	
Visible Emissions Subtype: VES	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity:	
Normal Conditions : %	
Exceptional Conditions: 60 %	
Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance :	
5. Visible Emissions Comment :	
Excess emissions shall not exceed 3 hrs in any 24-hr period.	
FDEP Rule 62-210.700(3), F.A.C.	

Emissions Unit Information Sect	ion <u>3</u>				
Visible Emissions Limitation :	Visible Emissio	ons Limi	tation 4	-	
1. Visible Emissions Subtype :	VEX			-ef	
2. Basis for Allowable Opacity :	RULE			-	
3. Requested Allowable Opacity	:				
	rmal Conditions : onal Conditions : Opacity Allowed		% % min/hour		
4. Method of Compliance :	-				
5. Visible Emissions Comment :					
Applicable for excess emissions res FDEP Rule 62-210.700(2), F.A.C.	_	startups a	nd shutdowns.	1,94	

Em	nissions Unit Information	Section 3
Uni	it No. 3; Residual Fuel Oil-F	ired Steam Generator
<u>Co</u>	ntinuous Monitoring Sys	ctem: Continuous Monitor 1
1.	Parameter Code :	VE
2.	CMS Requirement :	RULE
3.	Monitor Information :	
	Manufacturer : Model Number : Serial Number :	Thermo Environmenal Corporation 400 400B-48886-B70/
4.	Installation Date :	15-Aug-1994
5.	Performance Specification	on Test Date: 26-Oct-1994
6.	Continuous Monitor Com	ment :
	Required per 40 CFR Part 7 COMS installed on Stack N	75. Io. 2 - common stack for Unit Nos. 3 and 4.
		<u>·</u>

Em	Emissions Unit Information Section3				
Un	it No. 3; Residual Fuel Oil-Fi	red Steam Generator			
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 2			
1.	Parameter Code :	SO2			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48364-280			
4.	Installation Date :	15-Aug-1994			
5.	Performance Specification	on Test Date: 26-Oct-1994			
6.	Continuous Monitor Com				
	Required per 40 CFR Part 7 CEMS installed on Stack N	o. 2 - common stack for Unit Nos. 3 and 4.			

Em	nissions Unit Information	Section 3	
Un	it No. 3; Residual Fuel Oil-Fi	ired Steam Generator	
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 3	
1.	Parameter Code :	NOX	
2.	CMS Requirement :	RULE	
3.	Monitor Information :	•	
	Manufacturer:	Thermo Environmental Corporation	
	Model Number :	42D	
	Serial Number :	42D-48738-281	
4.	Installation Date :	15-Aug-1994	
5.	Performance Specification	on Test Date: 26-Oct-1994	
6.	Continuous Monitor Com	ment:	
	Required per 40 CFR Part 7 CEMS installed on Stack N	75. o. 2 - common stack for Unit Nos. 3 and 4.	
	· 		

Em	issions Unit Information	Section _	3		
Uni	t No. 3; Residual Fuel Oil-Fi	red Steam Gene	erator		
<u>Co</u>	ntinuous Monitoring Sys	tem: Con	tinuous Monitor	4	
1.	Parameter Code :	FLOW			
2.	CMS Requirement :	RULE			
3.	Monitor Information :	_			
	Manufacturer : Model Number : Serial Number :	USI Ultraflow 100 9401586)		
4.	Installation Date :		15-Aug-1994	· .	
5.	Performance Specificatio	n Test Date :	26-Oct-1994		
6.	Continuous Monitor Com	ment :			
	Required per 40 CFR Part 7 CEMS installed on Stack No		stack for Unit Nos. 3	and 4.	

Em	issions Unit Information	Section	3
Un	it No. 3; Residual Fuel Oil-Fi	red Steam Gen	nerator
<u>Co</u>	ntinuous Monitoring Sys	tem: Co	ontinuous Monitor5
1.	Parameter Code :	CO2	
2.	CMS Requirement :	RULE	
3.	Monitor Information :		
	Manufacturer : Model Number : Serial Number :	Siemens Ultramat 5E E3-761	3
4.	Installation Date :		15-Aug-1994
5.	Performance Specification	n Test Date :	: 26-Oct-1994
6.	Continuous Monitor Com	ment :	
	Required per 40 CFR Part 7 CEMS installed on Stack N		n stack for Unit Nos. 3 and 4.
			<u> </u>

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Er	missions Unit Information Section 3
Ur	nit No. 3; Residual Fuel Oil-Fired Steam Generator
<u>P\$</u>	SD Increment Consumption Determination
1.	Increment Consuming for Particulate Matter or Sulfur Dioxide?
[The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Is so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[3	[None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?					
[] The emissions unit addressed in this section is undergoing PSD review as part of tapplication, or has undergone PSD review previously, for nitrogen dioxide. If so, equal to the consumes increment.					
[] The facility addressed in this application is classified as an EPA major source pursuparagraph (c) of the definition of "major source of air pollution" in Chapter 62-213, the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consincrement.	F.A.C., and ruction				
] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.					
[] For any facility, the emissions unit began (or will begin) initial operation after March If so, baseline emissions are zero, and emissions unit consumes increment.] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.				
[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzesuch case, additional analysis, beyond the scope of this application, is needed to whether changes in emissions have occurred (or will occur) after the baseline date consume or expand increment.	letermine				
3. Increment Consuming/Expanding Code :					
PM: U					
SO2: U					
NO2: U					
4. Baseline Emissions :					
PM: Ib/hour tons/year					
SO2: Ib/hour tons/year					
NO2: tons/year					
5. PSD Comment:					
Emission unit is part of baseline PSD emission inventory.					

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3	
Unit No. 3; Residual Fuel Oil-Fired Steam Generator	
Supplemental Requirements for All Applications	
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	ПІ.І.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA ·
9. Other Information Required by Rule or Statue :	NA
Additional Supplemental Requirements for Category I Application	s Only
10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading):	NA .4
12. Enhanced Monitoring Plan :	III.I.12
1	

10. Identification of A	Additional Applicable Requirements : Appendix A
14. Acid Rain Applic	ation (Hard-copy Required) :
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emis	ssions Unit Information Section4
Unit 1	No. 4; Residual Fuel Oil-Fired Steam Generator
Туре	e of Emissions Unit Addressed in This Section
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions	Unit	Information	Section
	U 1111		CCCIOI

- 4
л
-

Emissions Unit Description and Status

1. Description of Emissions Un	nit Addressed in This Section	n :	
·			
Unit No. 4; Residual Fuel Oil-F	ned Steam Generator		
2. ARMS Identification Number	er: 004		
3. Emissions Unit Status Code :	4. Acid Rain Unit?	5. Emissions Unit Major	
Code .			Group SIC Code :
A	Y	7	49
6. Initial Startup Date :			
7. Long-term Reserve Shutdo	wn Date :		
8. Package Unit :			
Manufacturer :			
Model Number :			
9. Generator Nameplate Ratin	ng: 35 MW	•	
10. Incinerator Information :			
Dwell Te	emperature :	°F	
Dwell Time : Incinerator Afterburner Temperature :		seconds °F	
indifierator Afterburner i	emperature.	r	
11. Emissions Unit Comment	:		· · · · · · · · · · · · · · · · · · ·
See process flow diagram in	Document II.D.3.		
Babcock & Wilcox steam bo	iler.		w;
_	cted to a common steam header		ch feeds four steam turbine/generate

Emissions Unit Information Section	4	
Emissions Unit Control Equipment	1	
1. Description :		
None		
2. Control Device or Method Code :		 <u>.</u>

Emissions Unit Information Section	4

Unit No. 4; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	411 mmBtu/hr	
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :		i
	Units :		
4.	Maximum Production Rate :		
	Units:		
5.	Operating Capacity Comment :		
	Maximum heat input rate is 411 MMBtu/hr dete (lbs) and hours, and (2) previous year average s and station steam generation (lbs)	• , ,	•

Emissions Unit Information Section	4
------------------------------------	---

Unit No. 4; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year ...

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 4
Unit No. 4; Residual Fuel Oil-Fired Steam Generator
Rule Applicability Analysis
NA

B. EMISSIONS UNIT REGULATIONS

Emissions Unit	Information	Section	4
-----------------------	-------------	---------	---

Unit No. 4; Residual Fuel Oil-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diag	ram : CS-004	
2.	Emission Point Type Code: 2		
3.	Descriptions of Emission Points Comprising thi	s Emissions Unit :	
	NA		·
4.	ID Numbers or Descriptions of Emission Units v	with this Emission Point	at in Common :
	Unit No. 3 (CS-003) and Unit No. 4 (CS-004)		
5.	Discharge Type Code :	V	
6.	Stack Height :	280	feet
7.	Exit Diameter :	11.2	feet
8.	Exit Temperature :	352	°F
9.	Actual Volumetric Flow Rate :	218790	acfm
10	. Percent Water Vapor :		%
11	. Maximum Dry Standard Flow Rate :		dscfm
12	. Nonstack Emission Point Height :		feet
13	. Emission Point UTM Coordinates :		,,
	Zone: 17 East (km): 358.00	North (kn	m): 3091.000
14	. Emission Point Comment :		
	Stack temperature and flow rate data represent Unit based on 7/28/94 source test.	No. 4 only (Unit No. 3 no	ot in operation during test)

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4				
Unit No. 4; Residual Fuel Oil-Fired Steam Generator				
Segment Description and Rate: Segment	1			
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode) :			
Residual (No. 6) fuel oil burned in Unit No. 4.				
2. Source Classification Code (SCC): 1-01-0	004-01			
3. SCC Units: Thousand Gallons Burned (all liq	uid fuels)			
4. Maximum Hourly Rate: 2.70	5. Maximum Annual Rate: 23,654.00			
6. Estimated Annual Activity Factor:				
7. Maximum Percent Sulfur: 1.00	8. Maximum Percent Ash: 0.10			
9. Million Btu per SCC Unit: 152				
10. Segment Comment :				
No. 2 fuel oil used for ignition during start-up (See Segment 2).				
Btu per SCC unit value (Field 9) based on average fuel heat content of 152,210 Btu/gal.				
No. 6 fuel oil may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.				

III. Part 8 - 1

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4	_		
Unit No. 4; Residual Fuel Oil-Fired Steam Generator			
Segment Description and Rate : Segment			
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):		
Distillate (No. 2) fuel oil burned in Unit No. 4 for	startup.		
2. Source Classification Code (SCC): 1-01-0	005-01		
3. SCC Units: Thousand Gallons Burned (all lique)	uid fuels)		
4. Maximum Hourly Rate: 1.06	5. Maximum Annual Rate: 212.00		
6. Estimated Annual Activity Factor: 0.00			
7. Maximum Percent Sulfur: 0.50	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit: 136			
10. Segment Comment :			
No. 2 fuel oil used for ignition during startup.			
Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.			
Maximum annual rate (Field 5) based on firing No. 2 fuel oil for startup for 200 hrs/yr.			

III. Part 8 - 2

DEP Form No. 62-210.900(1) - Form

E. POLLUTANT INFORMATION

Emissions Unit Information Section	4		
Unit No. 4; Residual Fuel Oil-Fired Steam Gen	erator		
Pollutant Potential/Estimated Emissions	:: Pollutant 1		
1. Pollutant Emitted :	SO2		
2. Total Percent Efficiency of Control:	0.00 %		
3. Primary Control Device Code :	· .		
4. Secondary Control Device Code :			
5. Potential Emissions : 452.10	lb/hour 1	,980.20 t	ons/year
6. Synthetically Limited? N			
			•
7. Range of Estimated Fugitive/Other En	nissions:	to	tons/year
7. Range of Estimated Fugitive/Other En 8. Emissions Factor: 1.10		to	tons/year
8. Emissions Factor : 1.10 Units : Ib/MMBtu		to	tons/year
8. Emissions Factor : 1.10 Units : Ib/MMBtu Reference : Allowable emiss		to	·
8. Emissions Factor: 1.10		to	·
8. Emissions Factor: 1.10	ions	to	·
8. Emissions Factor: 1.10	ons Comment :	to	·

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

Em	nissions Unit Information Section	_4		
Pol	Ilutant Information Section1	1		
Allo	owable Emissions 1			
1.	Basis for Allowable Emissions Code :	RULE	3	
2.	Future Effective Date of Allowable Emiss	sions :		
3.	Requested Allowable Emissions and Un	its: 1.10	lb/M	IMBtu
4.	Equivalent Allowable Emissions :			
	452.10	lb/hour	1,980.20	tons/year
5.	Method of Compliance :			•
	Annual fuel analysis.			
6.	Pollutant Allowable Emissions Comment	t (Desc. of Relate	ed Operating Me	thod/Mode) :
	FDEP Rule 62-296.405(1)(c)1.d., F.A.C.			

E. POLLUTANT INFORMATION

Emissions Unit Information Section	4		
Unit No. 4; Residual Fuel Oil-Fired Steam Gene	erator		·
Pollutant Potential/Estimated Emissions	<u>s:</u> Pollut	ant <u>2</u>	
1. Pollutant Emitted :	PM		
2. Total Percent Efficiency of Control:	0.00	%	
3. Primary Control Device Code :			
4. Secondary Control Device Code :			
5. Potential Emissions: 123.50	lb/hour	225.00	tons/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other Em	nissions:	to	tons/year
8. Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable emissi	ions		
9. Emissions Method Code:			
10. Calculations of Emissions :			
See Appendix C			
11. Pollutant Potential/Estimated Emission	ons Commen	h:	
Potential emissions set equal to allowable Emission factor of 0.3 lb/MMBtu applica Annual PM emission rate based on 3 hrs.	able during so		n-soot blowing.

Emissions Unit Information Section4_					
Pollutant Information Section 2					
Allowable Emissions 1					
Basis for Allowable Emissions Code : RULE					
2. Future Effective Date of Allowable Emissions :					
3. Requested Allowable Emissions and Units : 0.10 lb/MMBtu					
4. Equivalent Allowable Emissions :					
41.10 lb/hour 225.00 tons/year					
5. Method of Compliance :					
Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.					
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :					
0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.					

Em	hissions Unit Information Section4_
	Ilutant Information Section 2
1.	Basis for Allowable Emissions Code : RULE
2.	Future Effective Date of Allowable Emissions :
3.	Requested Allowable Emissions and Units: 0.30 lb/MMBtu
4.	Equivalent Allowable Emissions :
	123.30 lb/hour 225.00 tons/year
5.	Method of Compliance :
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):
	0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.

Emissions Unit Information Section 4	•
<u>Visible Emissions Limitation</u> : Visible Emissions	Limitation 1
Visible Emissions Subtype : VE	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity:	
Normal Conditions : 2	20 %
	27 %
Maximum Period of Excess Opacity Allowed :	6 min/hour
4. Method of Compliance :	
Annual test using EPA Reference Method 9.	
5. Visible Emissions Comment :	
FDEP Rule 62-296.405(1)(a), F.A.C.	

Emissions Unit Information Section4
···
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation2
Visible Emissions Subtype : VES
2. Basis for Allowable Opacity: RULE
3. Requested Allowable Opacity :
3. Nequested Allowable Opacity.
Normal Conditions : %
Exceptional Conditions: 100 %
Maximum Period of Excess Opacity Allowed: 24 min/hour
4. Method of Compliance :
5. Visible Emissions Comment :
Visible emissions above 60 negets are allowed during bailer elemine and load aboves
Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes. FDEP Rule 62-210.700(3), F.A.C.
1221 1200 02 210.700(3), 1.11.0.

Emissions Unit Information Secti	on <u>4</u>		
<u>Visible Emissions Limitation :</u>	Visible Emissions	Limitation 3	_
1. Visible Emissions Subtype :	VES		
2. Basis for Allowable Opacity:	RULE		
3. Requested Allowable Opacity:		,	
Nor	mal Conditions :	%	
Exception	onal Conditions :	60 %	
Maximum Period of Excess	Opacity Allowed :	60 min/hour	
4. Method of Compliance :		-	
5. Visible Emissions Comment :			
Excess emissions shall not exceed 3	hrs in any 24-hr perio	xd.	
FDEP Rule 62-210.700(3), F.A.C.			

Visible Emissions Limitation: Visible Emissions	Limit	ation <u>4</u>
Visible Emissions Subtype : VEX		
2. Basis for Allowable Opacity : RULE		
• •		
2. Degraphed Allerrable Operity		
3. Requested Allowable Opacity :		·
Normal Conditions:		%
Exceptional Conditions: 1	.00	%
Maximum Period of Excess Opacity Allowed:	50	min/hour
4. Method of Compliance :		
•		

Applicable for excess emissions resulting from boiler startups and shutdowns. FDEP Rule 62-210.700(2), F.A.C.

Em	nissions Unit Information	Section 4	
Un	it No. 4; Residual Fuel Oil-Fi	red Steam Generator	
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 1	
1.	Parameter Code :	VE	
2.	CMS Requirement :	RULE	
3.	Monitor Information :		
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 400 400B-48886-B70/	
4.	Installation Date :	15-Aug-1994	·
5.	Performance Specification	n Test Date : 26-Oct-1994	
6.	Continuous Monitor Com		
	Required per 40 CFR Part 7 COMS installed on Stack N	'5. o. 2 - common stack for Unit Nos. 3 and 4.	e just

Em	Emissions Unit Information Section4				
Un	Unit No. 4; Residual Fuel Oil-Fired Steam Generator				
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 2			
1.	Parameter Code :	SO2			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48364-280			
4.	Installation Date :	15-Aug-1994			
5.	Performance Specification	on Test Date : 26-Oct-1994			
6.	Continuous Monitor Com	ment:			
	Required per 40 CFR Part 7 CEMS installed on Stack N	75. To. 2 - common stack for Unit Nos. 3 and 4.			

Em	nissions Unit Information	Section 4
Un	it No. 4; Residual Fuel Oil-F	red Steam Generator
Co	ntinuous Monitoring Sys	tem: Continuous Monitor3
1.	Parameter Code :	NOX
2.	CMS Requirement :	RULE
3.	Monitor Information :	<u> </u>
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-48738-281
4.	Installation Date:	15-Aug-1994
5.	Performance Specification	n Test Date : 26-Oct-1994
6.	Continuous Monitor Com	ment:
	Required per 40 CFR Part 7 CEMS installed on Stack N	75. o. 2 - common stack for Unit Nos. 3 and 4.

Em	Emissions Unit Information Section 4				
Uni	it No. 4; Residual Fuel Oil-Fi	red Steam Ge	nerator		
<u>Co</u>	ntinuous Monitoring Sys	tem: Co	ontinuous Monitor	4	
1.	Parameter Code :	FLOW			
2.	CMS Requirement :	RULE			
2	Monitor Information :				wf
J .	Monitor information:				
	Manufacturer : Model Number : Serial Number :	USI Ultraflow 10 9401586	00		
4.	Installation Date:	-	15-Aug-1994		
5.	Performance Specificatio	n Test Date	: 26-Oct-1994		
6.	Continuous Monitor Comi	ment :			
	Required per 40 CFR Part 7 CEMS installed on Stack No		stack for Unit Nos. 3	and 4.	

Emissions Unit Information Section4				
Unit No. 4; Residual Fuel Oil-Fired Steam Generator				
ntinuous Monitoring Sys	tem: Co	ontinuous Monitor	5	
Parameter Code :	CO2			
CMS Requirement :	RULE			
Monitor Information :				
Manufacturer : Model Number : Serial Number :	Siemens Ultramat 5E E3-761	E		
Installation Date :		15-Aug-1994		,,,
Performance Specification	n Test Date	: 26-Oct-1994		·
Continuous Monitor Com	ment :			·
		n stack for Unit Nos. 3	and 4.	
	t No. 4; Residual Fuel Oil-Findinuous Monitoring Systemater Code: CMS Requirement: Monitor Information: Manufacturer: Model Number: Serial Number: Installation Date: Performance Specification Continuous Monitor Communications Required per 40 CFR Part 7	t No. 4; Residual Fuel Oil-Fired Steam Gentinuous Monitoring System: Parameter Code: CO2 CMS Requirement: RULE Monitor Information: Manufacturer: Siemens Model Number: Ultramat 51 Serial Number: E3-761 Installation Date: Performance Specification Test Date Continuous Monitor Comment: Required per 40 CFR Part 75.	t No. 4; Residual Fuel Oil-Fired Steam Generator Intinuous Monitoring System: Continuous Monitor Parameter Code: CO2 CMS Requirement: RULE Monitor Information: Manufacturer: Siemens Model Number: Ultramat 5E Serial Number: E3-761 Installation Date: 15-Aug-1994 Performance Specification Test Date: 26-Oct-1994 Continuous Monitor Comment: Required per 40 CFR Part 75.	t No. 4; Residual Fuel Oil-Fired Steam Generator Intinuous Monitoring System: Continuous Monitor 5 Parameter Code: CO2 CMS Requirement: RULE Monitor Information: Manufacturer: Siemens Model Number: Ultramat 5E Serial Number: E3-761 Installation Date: 15-Aug-1994 Performance Specification Test Date: 26-Oct-1994 Continuous Monitor Comment:

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Er	nissions Unit Information Section4_
Un	it No. 4; Residual Fuel Oil-Fired Steam Generator
PS	SD Increment Consumption Determination
1.	Increment Consuming for Particulate Matter or Sulfur Dioxide?
[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. I so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[X	[None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2.	Increment Consur	ning for Nitrogen Dioxide?	
[-	•	rgoing PSD review as part of this y, for nitrogen dioxide. If so, emissions
[paragraph (c) of the emissions ur	the definition of "major source of air nit addressed in this section commer	as an EPA major source pursuant to pollution" in Chapter 62-213, F.A.C., and need (or will commence) construction a zero, and emissions unit consumes
[emissions unit b	essed in this application is classified egan initial operation after February ssions are zero, and emissions unit	8, 1988, but before March 28, 1988. If
[•	the emissions unit began (or will beg missions are zero, and emissions un	in) initial operation after March 28, 1988. it consumes increment.
[X	such case, addit	ional analysis, beyond the scope of s in emissions have occurred (or will	of the emissions unit are nonzero. In this application, is needed to determine occur) after the baseline date that may
3.	Increment Consu	ming/Expanding Code :	
	PM:	U	
	SO2:	U	•
	NO2 :	U	
4.	Baseline Emissio	ns:	
	PM:	lb/hour	tons/year
	SO2:	lb/hour	tons/year
	NO2 :		tons/year
5.	PSD Comment :		
	Emission unit is par	t of baseline PSD emission inventory.	
			·

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 4

Unit No. 4; Residual Fuel Oil-Fired Steam Generator					
Supplemental Requirements for All Applications					
1. Process Flow Diagram :	II.D.3				
2. Fuel Analysis or Specification :	III.I.2				
3. Detailed Description of Control Equipment :	NA				
4. Description of Stack Sampling Facilities :	III.I.4				
5. Compliance Test Report :	NA				
6. Procedures for Startup and Shutdown :	III.I.6				
7. Operation and Maintenance Plan :	III.I.7				
8. Supplemental Information for Construction Permit Application :	NA				
9. Other Information Required by Rule or Statue :	NA				
Additional Supplemental Requirements for Category I Application	s Only				
10. Alternative Methods of Operations :	III.I.10				
11. Alterntive Modes of Operation (Emissions Trading):	NA				
12. Enhanced Monitoring Plan :	III.I.12				
	,				

III. Part 13 - 7

DEP Form No. 62-210.900(1) - Form

4. Acid Rain Applica	ation (Hard-copy Required) :
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emi	ssions Unit Information Section5
Unit	No. 5; Residual Fuel Oil-Fired Steam Generator
Тур	e of Emissions Unit Addressed in This Section
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
]] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
Į] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

2. ARMS Identification Numb	er: 005	5		.:	
3. Emissions Unit Status Code :	4. Acid l	Rain Unit?	,	5. Emissions Unit Ma Group SIC Code :	ijor
Α			Y		49
6. Initial Startup Date :	I	_	_		
7. Long-term Reserve Shutdo	own Date :			-	
3. Package Unit :					
Manufacturer : Model Number :					
9. Generator Nameplate Rati	ng:	45 M	W		
10. Incinerator Information :					
Dwell T	emperature		°F	44	
Incinerator Afterburner	Dwell Time Temperature	•	se °F	conds	
11. Emissions Unit Comment				-	

Generator nameplate rating (Field 9) is based on maximum steam flow from Unit No. 5.

Emissions Unit Information Section		
Emissions Unit Control Equipment	1	
1. Description :		
None		
2. Control Device or Method Code :	·	

Emissions Unit Information Section	5	
Unit No. 5; Residual Fuel Oil-Fired Steam Ger	nerator	
Emissions Unit Operating Capacity		

1	. Maximum Heat Input Rate :	610	mmBtu/hr	
2	. Maximum Incinerator Rate :			
			lb/hr	tons/day
3	. Maximum Process or Throughput Rate :			
	Units :			
4	. Maximum Production Rate :			
	Units:			
5	. Operating Capacity Comment :	-		
	Maximum heat input rate is 610 MMBtu/hr dete (lbs) and hours, and (2) previous year average st and station steam generation (lbs)			•

Emissions	Unit	Information	Section
	U 1111		OCCUO!!

Unit No. 5; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	5						
Unit No. 5; Residual Fuel Oil-Fired Steam Generator							
Rule Applicability Analysis			·				
N/A							

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit Information	Section	5
------------------	-------------------------	---------	---

Unit No. 5; Residual Fuel Oil-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information Section	5

Unit No. 5; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram : CS-005							
2.	Emission I	Point Type Cod	le :	2				
3.	Descriptions of Emission Points Comprising this Emissions Unit :							
	N/A							
4.	I. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:							
	Unit No. 1	(CS-001), Unit l	No. 2 (CS-002), a	and Unit No. 5 (C	S-005)			
5.	Discharge	Type Code :			V		.,	
6.	Stack Heig	ght:			280	feet		
7.	Exit Diame	eter :			11.2	feet		
8.	Exit Temp	erature :			352	°F		
9.	Actual Vol	umetric Flow R	ate :		218790	acfm		
10	. Percent	Water Vapor :	-			%		
11	. Maximun	n Dry Standard	Flow Rate :			dscfr	n	
12	. Nonstack	Emission Poir	nt Height :			feet		
13	. Emission	Point UTM Co	ordinates :					
	Zone:	17	East (km):	358.000	North (kn	n) ;	3091.000	
14	. Emission	Point Comme	nt:					
	Stack temperature and flow rate data represent Unit No. 5 only (duct measurements prior to main stack) based on 6/16/94 source test.							

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section5							
Unit No. 5; Residual Fuel Oil-Fired Steam Generator							
Segment Description and Rate: Segment 1							
Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :							
Residual (No. 6) fuel oil burned in Unit No. 5.							
2. Source Classification Code (SCC): 1-01-004-01							
3. SCC Units: Thousand Gallons Burned (all liquid fuels)							
4. Maximum Hourly Rate: 4.01	5. Maximum Annual Rate: 35,107.00						
6. Estimated Annual Activity Factor :							
7. Maximum Percent Sulfur: 1.00	8. Maximum Percent Ash: 0.10						
9. Million Btu per SCC Unit: 152							
10. Segment Comment :							
No. 2 fuel oil used for ignition during start-up (See Segment 2).							
Btu per SCC unit value (Field 9) based on average fuel heat content of 152,210 Btu/gal.							
No. 6 fuel oil may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.							

III. Part 8 - 5

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Linissions Officialion Section	-		
Unit No. 5; Residual Fuel Oil-Fired Steam Generator			
Segment Description and Rate: Segment	2		
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):		
Distillate (No. 2) fuel oil burned in Unit No. 5 for	startup.		
2. Source Classification Code (SCC): 1-01-0	005-01		
3. SCC Units: Thousand Gallons Burned (all liques)	uid fuels)		
4. Maximum Hourly Rate: 1.06	5. Maximum Annual Rate: 212.00		
6. Estimated Annual Activity Factor:			
7. Maximum Percent Sulfur: 0.50	8. Maximum Percent Ash:		
9. Million Btu per SCC Unit: 136	·		
10. Segment Comment :			
No. 2 fuel oil used for ignition during startup.			
Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.			
Maximum annual rate (Field 5) based on firing N	o. 2 fuel oil for startup for 200 hrs/yr.		

III. Part 8 - 2

DEP Form No. 62-210.900(1) - Form

E. POLLUTANT INFORMATION

Emissions Unit Information Section	<u> </u>		
Unit No. 5; Residual Fuel Oil-Fired Steam Generat	or		
Pollutant Potential/Estimated Emissions:	Pollutant1		
1. Pollutant Emitted : SO	02		
Total Percent Efficiency of Control: 0.	00 %		
3. Primary Control Device Code :			
4. Secondary Control Device Code :			
5. Potential Emissions : 671.00	/hour 2	,939.00 tons	/year
6. Synthetically Limited? N			
	<u>`</u>		
7. Range of Estimated Fugitive/Other Emiss	ions:	to	tons/year
7. Range of Estimated Fugitive/Other Emiss 8. Emissions Factor: 1.10		to	tons/year
8. Emissions Factor: 1.10 Units: lb/MMBtu		to	tons/year
8. Emissions Factor: 1.10 Units: lb/MMBtu Reference: Allowable emissions		to	tons/year
8. Emissions Factor: 1.10		to	tons/year
8. Emissions Factor: 1.10		to	tons/year
8. Emissions Factor: 1.10	Comment :	to	tons/year

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

Emissions Unit Information Section5						
	Pollutant Information Section 1 Allowable Emissions 1					
1.	Basis for Allowable Emissions Code :		RULE		·	
2.	Future Effective Date of Allowable Em	issions :				
3.	Requested Allowable Emissions and L	Jnits :	1.10	lb/M	IMBtu	
4.	Equivalent Allowable Emissions :					
	671.00	lb/hour		2,939.00	tons/year	
5.	Method of Compliance :		-			
	Annual fuel analysis.					
6.	Pollutant Allowable Emissions Comme	ent (Desc. of	Related	Operating Met	thod/Mode):	
	FDEP Rule 62-296.405(1)(c)1.d., F.A.C.					

E. POLLUTANT INFORMATION

Em	issions Unit Information Section	5	<u> </u>			
Uni	t No. 5; Residual Fuel Oil-Fired Steam Gen	erator				
Pol	lutant Potential/Estimated Emissions	<u>s :</u>	Pollutant	2		
1.	Pollutant Emitted :	PM	_			
2.	Total Percent Efficiency of Control :	0.00	%			
3.	Primary Control Device Code :	_				-
4.	Secondary Control Device Code :	_				
5.	Potential Emissions: 183.00	lb/ho	our	334.00	tons/year	
6.	Synthetically Limited? N					
7.	Range of Estimated Fugitive/Other En	nissior	is:	to		tons/year
8.	Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable emiss	sions				
9.	Emissions Method Code :					
10	. Calculations of Emissions :				<i>.</i> :	
	See Appendix C					
11	Pollutant Potential/Estimated Emission	ons Co	omment :			
	Potential emissions set equal to allowable Emission factor of 0.3 lb/MMBtu application Annual PM emission rate based on 3 hrs	able du	ring soot bl	-	on-soot blowi	ng.

Em	Emissions Unit Information Section 5			
Pol	lutant Information Section2_			
Allo	wable Emissions 1			
1.	Basis for Allowable Emissions Code : RULE			
2.	Future Effective Date of Allowable Emissions :			
3.	Requested Allowable Emissions and Units: 0.10 lb/MMBtu			
4.	Equivalent Allowable Emissions :			
	61.00 lb/hour 334.00 tons/year			
5.	Method of Compliance :			
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.			
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):			
	0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.			

En	nissions Unit Information Section 5				
Ро	Pollutant Information Section 2				
<u>All</u>	lowable Emissions 2				
1.	Basis for Allowable Emissions Code :	RULE	_		
2.	Future Effective Date of Allowable Emission	s:			
3.	Requested Allowable Emissions and Units:	0.30	lb/M	IMBtu	
4.	Equivalent Allowable Emissions :				
	183.00	lb/hour	334.00	tons/year	
5.	Method of Compliance :				
	Annual test using EPA Reference Method 5, 5B, used to demonstrate compliance with non-soot blooms.	-	on, three soot-b	lowing test runs will be	
6.	Pollutant Allowable Emissions Comment (De	esc. of Related	Operating Me	thod/Mode) :	
	0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at FDEP Rules 62-210.700(3) and 62-296.405(1)(b		nd 3 hrs/dy at (0.3 lb/MMBtu.	

Emissions Unit Information Section5_			
Visible Emissions Limitation: Visible Emissions Limitation1			
1. Visible Emissions Subtype : VE			
2. Basis for Allowable Opacity: RULE			
3. Requested Allowable Opacity:			
Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour			
4. Method of Compliance :			
Annual test using EPA Reference Method 9.			
5. Visible Emissions Comment :			
FDEP Rule 62-296.405(1)(a), F.A.C.			

Em	Emissions Unit Information Section5_			
<u>Vis</u>	Visible Emissions Limitation : Visible Emissions Limitation 2			
1.	Visible Emissions Subtype: VES			
2.	Basis for Allowable Opacity: RULE			
3.	Requested Allowable Opacity :			
	Normal Conditions : %			
	Exceptional Conditions: 100 %			
	Maximum Period of Excess Opacity Allowed: 24 min/hour			
4.	Method of Compliance :			
5.	Visible Emissions Comment :			
	Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes. FDEP Rule 62-210.700(3), F.A.C.			

Emissions Unit Information Section5_			
· · · · · · · · · · · · · · · · · · ·	Trall race	T	
Visible Emissions Limitation	on: Visible Emission	s Limitation 3	
1. Visible Emissions Subty	pe: VES		
2. Basis for Allowable Opa	city: RULE		
3. Requested Allowable Op	pacity:		
	Normal Conditions:	%	·
	xceptional Conditions :	60 %	••
Maximum Period of E	excess Opacity Allowed:	60 min/hour	
4. Method of Compliance :			
5. Visible Emissions Comm	nent :		
Excess emissions shall not 6 FDEP Rule 62-210.700(3),		riod.	

Em	issions Unit Information Section5_
<u>Vis</u>	ible Emissions Limitation: Visible Emissions Limitation 4
1.	Visible Emissions Subtype : VEX
2.	Basis for Allowable Opacity: RULE
3.	Requested Allowable Opacity :
	Normal Conditions : %
	Exceptional Conditions: 100 %
	Maximum Period of Excess Opacity Allowed: 60 min/hour
4.	Method of Compliance :
5.	Visible Emissions Comment :
	Applicable for excess emissions resulting from boiler startups and shutdowns.
	FDEP Rule 62-210.700(2), F.A.C.

Em	Emissions Unit Information Section5			
Uni	t No. 5; Residual Fuel Oil-Fi	red Steam Generator	٠	
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 1_		
1.	Parameter Code :	VE		
2.	CMS Requirement :	RULE		
3.	Monitor Information :	·		
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 400 400B-48885-B70/		
4.	Installation Date :	15-Aug-1994		
5.	Performance Specificatio	n Test Date: 26-Oct-1994		
6.	Continuous Monitor Com	ment:		
	Required per 40 CFR Part 7 COMS installed on Stack N	5. o. 1 - common stack for Unit Nos. 1, 2, and 5.		

Emissions Unit Information Section5				
Unit No. 5; Residual Fuel Oil-Fired Steam Generator				
Continuous Monitoring Sys	tem: Continuous Monitor 2			
1. Parameter Code :	SO2			
2. CMS Requirement :	RULE			
3. Monitor Information :				
Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48334-280			
4. Installation Date :	15-Aug-1994			
5. Performance Specification	on Test Date: 26-Oct-1994	<u> </u>		
6. Continuous Monitor Com	ment :			
Required per 40 CFR Part 7 CEMS installed on Stack N	75. o. 1 - common stack for Unit Nos. 1, 2, and 5.			
		94		

Em	Emissions Unit Information Section 5						
Un	Unit No. 5; Residual Fuel Oil-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 3					
1.	Parameter Code :	NOX					
2.	CMS Requirement :	RULE					
3.	Monitor Information :	·					
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-48741-281					
4.	Installation Date :	15-Aug-1994					
5.	Performance Specification	n Test Date: 26-Oct-1994					
6.	Continuous Monitor Com	ment:					
	Required per 40 CFR Part 7 CEMS installed on Stack N	75. o. 1 - common stack for Unit Nos. 1, 2, and 5.					

Emissions Unit Information Section 5						
Uni	Unit No. 5; Residual Fuel Oil-Fired Steam Generator					
Co	ntinuous Monitoring Sys	tem : Cont	tinuous Monitor	4		
1.	Parameter Code :	FLOW				
2.	CMS Requirement :	RULE				
3.	Monitor Information :				-	
	Manufacturer : Model Number : Serial Number :	USI Ultraflow 100 9401635			e ⁿ	
4.	Installation Date :		15-Aug-1994			
		·				
5.	Performance Specificatio	n Test Date :	26-Oct-1994			
6.	Continuous Monitor Com	ment :			·	
	Required by 40 CFR Part 75. CEMS installed on Stack No. 1 - common stack for Unit Nos. 1, 2, and 5.					

Em	Emissions Unit Information Section5_						
Un	Unit No. 5; Residual Fuel Oil-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem: Cor	ntinuous Monitor	5			
1.	Parameter Code :	CO2				,	
2.	CMS Requirement :	RULE	·				
3.	Monitor Information :				•		
	Manufacturer : Model Number : Serial Number :	Siemens Ultramat 5E E3-793					
4.	Installation Date :		15-Aug-1994				
5.	Performance Specification	n Test Date :	26-Oct-1994				
6.	Continuous Monitor Com	ment :	<u> </u>				
	Required by 40 CFR Part 75. CEMS installed on Stack No. 1 - common stack for Unit Nos. 1, 2, and 5.						

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Ε	missions Unit Information Section5
U:	nit No. 5; Residual Fuel Oil-Fired Steam Generator
<u>P</u> :	SD Increment Consumption Determination
1.	Increment Consuming for Particulate Matter or Sulfur Dioxide?
[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. I so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[2	K] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2.	Increment Consuming for Nitrogen Dioxide?					
[] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.					
	The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.					
[emissions unit	began initial operation after F	lassified as an EPA major source, and the February 8, 1988, but before March 28, 1988. If ons unit consumes increment.			
[_		r will begin) initial operation after March 28, 1988 sions unit consumes increment.	; .		
[X	such case, add whether change	itional analysis, beyond the s	nissions of the emissions unit are nonzero. In scope of this application, is needed to determine d (or will occur) after the baseline date that may			
3.	Increment Consi	uming/Expanding Code :				
	PM:	U				
	SO2:	Ü				
	NO2 :	U				
4.	Baseline Emission	 ons :		_		
			₩			
	PM : SO2 :	lb/hour	tons/year			
	NO2 :	lb/hour	tons/year tons/year			
			tonsyear	_		
5.	PSD Comment :					
	Emission unit is pa	art of baseline PSD emission inve	entory.			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Unit No. 5; Residual Fuel Oil-Fired Steam Generator						
Supplemental Requirements for All Applications						
II.D.3						
III.I.2						
NA						
III.I.4						
III.I.6						
III.I.7						
NA						
NA						
s Only						
III.I.10						
NA						
III.I.12						

III. Part 13 - 9

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

4. Acid Rain Applica	ation (Hard-copy Required) :
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emi	ssions Unit Information Section 6
Unit	No. 6; Residual Fuel Oil-Fired Steam Generator
Туре	e of Emissions Unit Addressed in This Section
[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
[] This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
[] This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
[] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit	Addressed in This Sec	ion :	
Unit No. 6; Residual Fuel Oil-Fi	red Steam Generator		
2. ARMS Identification Number	: 006		
3. Emissions Unit Status Code :	4. Acid Rain Unit?	,	5. Emissions Unit Major Group SIC Code :
Α		Y	49
6. Initial Startup Date :	·		
7. Long-term Reserve Shutdow	n Date :		
8. Package Unit :			
Manufacturer : Model Number :			, ut
9. Generator Nameplate Rating	72 MW		-
10. Incinerator Information :			
	mperature : well Time : emperature :	°F seco °F	onds
11. Emissions Unit Comment :			
See process flow diagram in D Combustion Engineering steam			

Emissions Unit Information Section	6		
Emissions Unit Control Equipment	1		
1. Description :			
None			
2. Control Device or Method Code :			

Emissions	Unit	Information	Section	6

Unit No. 6; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate : 7	78 mmBtu/hr	·
2.	Maximum Incinerator Rate :		·
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :		
	Units :		
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :		
	Maximum heat input rate is 778 MMBtu/hr determ (lbs) and hours, and (2) previous year average state and station steam generation (lbs)	• , ,	

Emissions	Unit	Information	Section	ϵ

Unit No. 6; Residual Fuel Oil-Fired Steam Generator

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

	••					
Unit No. 6; Residual Fuel Oil-Fired Steam Generator						
Rule Applicability Analysis						
,		•				
	,	· · · · · · · · · · · · · · · · · · ·				

B. EMISSIONS UNIT REGULATIONS

Emissions Unit	Information So	ection 6	
-----------------------	----------------	----------	--

Unit No. 6; Residual Fuel Oil-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information	Section	6

Unit No. 6; Residual Fuel Oil-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram: CS	-006		
2.	Emission Point Type Code : 1			
3.	Descriptions of Emission Points Comprising this Emissions U	Init :		
	N/A			
4.	ID Numbers or Descriptions of Emission Units with this Emiss	sion Point	in Co	mmon :
	N/A			
5.	Discharge Type Code :	V		
6.	Stack Height :	280	feet	
7.	Exit Diameter :	9.4	feet	÷
8.	Exit Temperature :	329	°F	
9.	Actual Volumetric Flow Rate :	313188	acfm	
10	Percent Water Vapor :		%	
11	Maximum Dry Standard Flow Rate :		dscfn	1
12	Nonstack Emission Point Height :		feet	
13	Emission Point UTM Coordinates :			
	Zone: 17 East (km): 358.000	North (km):	3091.000
14	Emission Point Comment :			
	Stack temperature and flow rate data based on 4/27/94 source test.			

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6
Unit No. 6; Residual Fuel Oil-Fired Steam Generator
Segment Description and Rate: Segment 1
1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):
Residual (No. 6) fuel oil burned in Unit No. 6.
2. Source Classification Code (SCC): 1-01-004-01
3. SCC Units: Thousand Gallons Burned (all liquid fuels)
4. Maximum Hourly Rate: 5.11 5. Maximum Annual Rate: 44,776.00
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 1.00 8. Maximum Percent Ash: 0.10
9. Million Btu per SCC Unit: 152
10. Segment Comment:
Propane used for ignition during startup (See Segement 2).
Btu per SCC unit value (Field 9) based on average fuel heat content of 152,210 Btu/gal.
No. 6 fuel oil may be supplemented with used oil and up to 50 gallons per minute of non-hazardous boiler chemical cleaning waste.

III. Part 8 - 1

DEP Form No. 62-210.900(1) - Form

Effective : 3-21-96

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6	_					
Unit No. 6; Residual Fuel Oil-Fired Steam Generator						
Segment Description and Rate: Segment	2					
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode) :					
Propane burned in Unit No. 6 for startup.						
2. Source Classification Code (SCC): 1-01-0	010-02					
3. SCC Units: Thousand Gallons Burned (all liq	uid fuels)					
4. Maximum Hourly Rate: 0.11	5. Maximum Annual Rate: 11.00					
6. Estimated Annual Activity Factor: 0.00	· ·					
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :					
9. Million Btu per SCC Unit: 94						
10. Segment Comment :						
Propane used for ignition during startup.						
Btu per SCC unit value (Field 9) based on average fuel heat content of 94,000.						
Maximum annual rate (Field 5) based on firing propane fuel oil for startup for 100 hrs/yr.						

III. Part 8 - 2

E. POLLUTANT INFORMATION

Emissions Unit Information Section	6				
Unit No. 6; Residual Fuel Oil-Fired Steam Ger	nerator				
Pollutant Potential/Estimated Emission	<u>s :</u> Pollutant _	1	·		
1. Pollutant Emitted :	SO2				
2. Total Percent Efficiency of Control:	0.00 %				
3. Primary Control Device Code :					
4. Secondary Control Device Code :					
5. Potential Emissions: 855.80	lb/hour	3,748.40	tons/year		
6. Synthetically Limited? N					
7. Range of Estimated Fugitive/Other En	missions:	to	tons/year		
8. Emissions Factor: 1.10 Units: lb/MMBtu Reference: Allowable emiss	sions				
9. Emissions Method Code :					
10. Calculations of Emissions :	,				
See Appendix C	·		era .		
11. Pollutant Potential/Estimated Emissions Comment :					
Potential emissions set equal to allowable	le emissions				
1	ic chasions.				

EL - PM and SO2

WP - None

NS - CO, NOX, PM10, VOC, H106 (HCl), and H107 (HF).

Control Device Codes: No air pollution control devices are installed.

En	nissions Unit Information Section	6			
	Ilutant Information Section 1	_		·	
<u>All</u>	owable Emissions 1				
1.	Basis for Allowable Emissions Code :		RULE		
2.	Future Effective Date of Allowable En	nissions :			
3.	Requested Allowable Emissions and	Units :	1.10	lb/M	MBtu
4.	Equivalent Allowable Emissions :				
	855.80	lb/hour		3,748.40	tons/year
5.	Method of Compliance :				
	Annual fuel analysis.				
6.	Pollutant Allowable Emissions Commo	ent (Desc. of	Related O	perating Met	hod/Mode) :
	FDEP Rule 62-296.405(1)(c)1.d., F.A.C.				

E. POLLUTANT INFORMATION

Emissions Unit information Section	<u> </u>				
Unit No. 6; Residual Fuel Oil-Fired Steam Gen	erator				
Pollutant Potential/Estimated Emissions	s: Pollut	ant 2	-		
1. Pollutant Emitted :	PM				
2. Total Percent Efficiency of Control :	0.00	%		~.	
3. Primary Control Device Code :					
4. Secondary Control Device Code :					
5. Potential Emissions: 233.40	lb/hour	426	.00	tons/year	
6. Synthetically Limited? N					
7. Range of Estimated Fugitive/Other En	nissions:		to ·		tons/year
8. Emissions Factor: 0.30					
Units: lb/MMBtu					
Reference: Allowable emiss	sions			;	
9. Emissions Method Code :					
10. Calculations of Emissions :					
See Appendix C		٠			
11. Pollutant Potential/Estimated Emission	ons Commer	nt:		,	
Potential emissions set equal to allowable emissions. Emission factor of 0.3 lb/MMBtu applicable during soot blowing. Annual PM emission rate based on 3 hrs/day soot blowing and 21 hrs/day non-soot blowing.					

En	nissions Unit Information Section6
	Ilutant Information Section2_
<u>All</u>	owable Emissions 1
1.	Basis for Allowable Emissions Code : RULE
2.	Future Effective Date of Allowable Emissions :
3.	Requested Allowable Emissions and Units: 0.10 lb/MMBtu
4.	Equivalent Allowable Emissions :
	77.80 lb/hour 426.00 tons/year
5.	Method of Compliance :
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three soot-blowing test runs will be used to demonstrate compliance with non-soot blowing standard.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
	0.1 lb/MMBtu applicable during non-soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.

Em	missions Unit Information Section 6				
	ollutant Information Section 2				
1.	. Basis for Allowable Emissions Code :	·			
2.	. Future Effective Date of Allowable Emissions :				
3.	. Requested Allowable Emissions and Units: 0.30	lb/MMBtu			
4.	. Equivalent Allowable Emissions :	·			
	233.40 Ib/hour 426.00) tons/year			
5.	. Method of Compliance :				
	Annual test using EPA Reference Method 5, 5B, or 17. As an option, three used to demonstrate compliance with non-soot blowing standard.	soot-blowing test runs will be			
6.	. Pollutant Allowable Emissions Comment (Desc. of Related Operation	g Method/Mode):			
	0.3 lb/MMBtu applicable during soot blowing. Annual allowable emissions based on 21 hrs/dy at 0.1 lb/MMBtu and 3 hrs/dy at 0.3 lb/MMBtu. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

Emissions Unit Information Section6	-
Visible Emissions Limitation : Visible Emissions Limitation 1	-
1. Visible Emissions Subtype : VE	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity :	
Normal Conditions: 20 %	en e
Exceptional Conditions: 27 %	
Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance :	
Annual test using EPA Reference Method 9.	
5. Visible Emissions Comment :	·
FDEP Rule 62-296.405(1)(a), F.A.C.	

Source Unit Type	Status	Basis
Sand blasting and abrasive grit blasting where temporary total enclosures are used to contain particulates	Presumptive exemption	Prior consensus with FDEP: Item 39, Title V Insignificant Source Summary for Electric Power Plants
Equipment used for steam cleaning	Exempt	62-210.300(3)(a)10.,F.A.C.
Vacuum pumps in laboratory operations	Exempt	62-210.300(3)(a)9.,F.A.C.
Equipment used exclusively for space heating, other than boilers	Exempt	62-210.300(3)(a)12.,F.A.C.
Surface coating operations utilizing 6.0 gallons per day or less, averaged monthly, of coatings containing greater than 5.0 percent VOCs, by volume.	Exempt	62-210.300(3)(a)23.,F.A.C.
Surface coating operations utilizing only coatings containing 5.0 percent or less VOCs, by volume.	Exempt	62-210.300(3)(a)24.,F.A.C.
Degreasing units using heavier-than-air vapors exclusively, except any unit using or emitting any substance classified as a hazardous air pollutant	Exempt	62-210.300(3)(a)26.,F.A.C.

Note: Although emission rates have not been quantified for all of the activities listed above, professional judgement indicates that each listed source unit type will meet the following criteria:

- Are not subject to any unit specific applicable requirements; i.e., listed source unit types are only subject to general facility-wide applicable requirements;
- Potential emissions are expected to be less than 500 pounds per year of lead and lead compounds;
- Potential emissions are expected to be less than 1,000 pounds per year of any hazardous air pollutant;
- Potential emissions are expected to be less than 2,500 pounds per year of total hazardous air pollutants; and
- Potential emissions are expected to be less than 5 tons per year of any other regulated pollutant.

Source: ECT, 1996.

Emissions Unit Information Section6_
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 2
1. Visible Emissions Subtype: VES
2. Basis for Allowable Opacity: RULE
3. Requested Allowable Opacity:
Normal Conditions : %
Exceptional Conditions: 100 %
Maximum Period of Excess Opacity Allowed: 24 min/hour
4. Method of Compliance :
•••
5. Visible Emissions Comment :
Visible emissions above 60 percent opacity are allowed during boiler cleaning and load changes.

Emissions Unit Information Section 6	
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 3	
Visible Emissions Subtype : VES	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity :	
Normal Conditions : %	
Exceptional Conditions: 60 %	
Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance :	•
5. Visible Emissions Comment :	
Excess emissions shall not exceed 3 hrs in any 24-hr period.	
FDEP Rule 62-210.700(3), F.A.C.	
	.**

En	nissions Unit Information	Section	6			
Un	it No. 6; Residual Fuel Oil-F	ired Steam Gene	rator			
<u>Co</u>	ntinuous Monitoring Sys	stem: Con	tinuous Monitor	1		
1.	Parameter Code :	VE				
2.	CMS Requirement :	RULE	<u> </u>			
3.	Monitor Information :	•	· ·		· .	
	Manufacturer : Model Number : Serial Number :	Thermo Enviro 400 400B-40171-F	onmental Corporation		·	
4.	Installation Date :		15-Aug-1994			
5.	Performance Specification	n Test Date :	26-Oct-1994			
6.	Continuous Monitor Com	ment :				
	Required per 40 CFR Part	75.			-··	

Emi	issions Unit Information	Section 6	· •
Unit	t No. 6; Residual Fuel Oil-F	red Steam Generator	
<u>Cor</u>	ntinuous Monitoring Sys	tem: Continuous Monitor 2	• • • • • • • • • • • • • • • • • • •
1.	Parameter Code :	SO2	
2.	CMS Requirement :	RULE	·
3.	Monitor Information :		
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48337-280	··
4.	Installation Date :	15-Aug-1994	
5.	Performance Specification	n Test Date: 26-Oct-1994	·
	Continuous Monitor Com Required per 40 CFR Part 2		

En	issions Unit Information	Section	6			
Un	it No. 6; Residual Fuel Oil-F	ired Steam Ge	enerator		**	
<u>Co</u>	ntinuous Monitoring Sys	stem: C	ontinuous Monitor	3		
1.	Parameter Code :	NOX	·			
2.	CMS Requirement :	RULE			·	
3.	Monitor Information :					
	Manufacturer:		vironmental Corporation			
	Model Number : Serial Number :	42D 42D-48742	-281			
4.	Installation Date :		15-Aug-1994			,
5.	Performance Specification	on Test Date	: 26-Oct-1994		·	
6.	Continuous Monitor Com	nment :			<u> </u>	_
	Required per 40 CFR Part	75.				

En	nissions Unit Information	Section _	6	•	
Un	it No. 6; Residual Fuel Oil-F	Fired Steam Gene	rator		
<u>Co</u>	ntinuous Monitoring Sys	stem : Con	tinuous Monitor	4	
1.	Parameter Code :	FLOW		,	
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
	Manufacturer : Model Number : Serial Number :	USI Ultraflow 100 9401633			
4.	Installation Date :		15-Aug-1994		•
5.	Performance Specification	on Test Date :	26-Oct-1994		··· .
6.	Continuous Monitor Con				
	Required per 40 CFR Part	75.			

Em	issions Unit Information	Section	6		
Un	it No. 6; Residual Fuel Oil-F	red Steam Gener	rator		•
<u>Co</u>	ntinuous Monitoring Sys	tem: Cont	tinuous Monitor	5	. *
1.	Parameter Code :	CO2	•		
	-	, .			
2.	CMS Requirement :	RULE	,		
		•	,		
3.	Monitor Information :		<u> </u>		<u> </u>
	Manufacturer :	Siemens			
	Model Number : Serial Number :	Ultramat 5E E3-761			
4.	Installation Date :		15-Aug-1994	_	
5.	Performance Specification	n Test Date :	26-Oct-1994		•
		· 			
6.	Continuous Monitor Com	ment :			
	Required per 40 CFR Part	1 5.		•	· •••

H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section6_
Unit No. 6; Residual Fuel Oil-Fired Steam Generator
PSD Increment Consumption Determination
1. Increment Consuming for Particulate Matter or Sulfur Dioxide?
[] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. I so, baseline emissions are zero, and emissions unit consumes increment.
[] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
[X] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?				
[] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.				
[] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.				
[] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.				
[] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.				
[X] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.				
3. Increment Consuming/Expanding Code :				
PM: U SO2: U NO2: U				
4. Baseline Emissions :				
PM: Ib/hour tons/year				
SO2: Ib/hour tons/year				
NO2: tons/year				
5. PSD Comment :				
Emission unit is part of baseline PSD emission inventory.				

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

Unit No. 6; Residual Fuel Oil-Fired Steam Generator				
Supplemental Requirements for All Applications				
1. Process Flow Diagram :	II.D.3			
2. Fuel Analysis or Specification :	III.I.2			
3. Detailed Description of Control Equipment :	NA			
4. Description of Stack Sampling Facilities :	III.I.4			
5. Compliance Test Report :	NA			
6. Procedures for Startup and Shutdown :	III.I.6			
7. Operation and Maintenance Plan :	III.I.7			
8. Supplemental Information for Construction Permit Application :	NA			
9. Other Information Required by Rule or Statue :	NA			
Additional Supplemental Requirements for Category I Applications Only				
10. Alternative Methods of Operations :	III.I.10			
11. Alterntive Modes of Operation (Emissions Trading):	NA			
12. Enhanced Monitoring Plan :	III.I.12			

III. Part 13 - 11

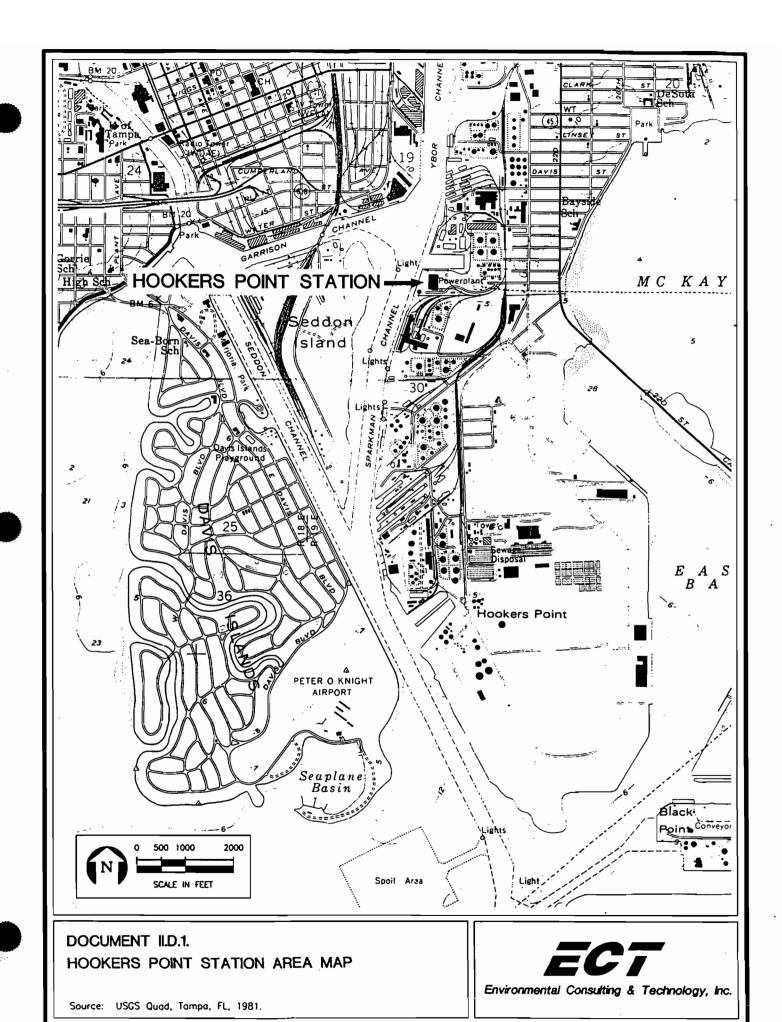
DEP Form No. 62-210.900(1) - Form

Revision 1, 02/07/97

4. Acid Rain Applica	ation (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))	
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)	
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)	
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3	

II.D.1

AREA MAP



II.D.2 FACILITY PLOT PLAN



SCALE: 1"=200'

LEGEND

CS-005 EMISSION POINT

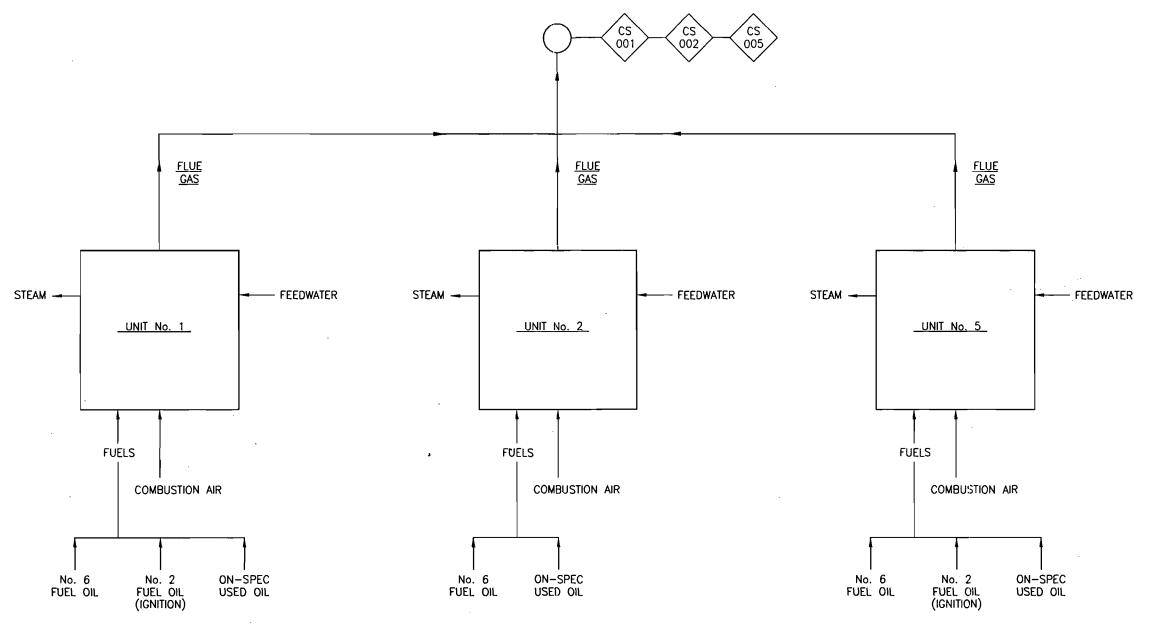
DOCUMENT II.D.2.

HOOKERS POINT STATION EMISSION SOURCES

Source: ECT, 1995.



II.D.3 PROCESS FLOW DIAGRAMS



LEGEND



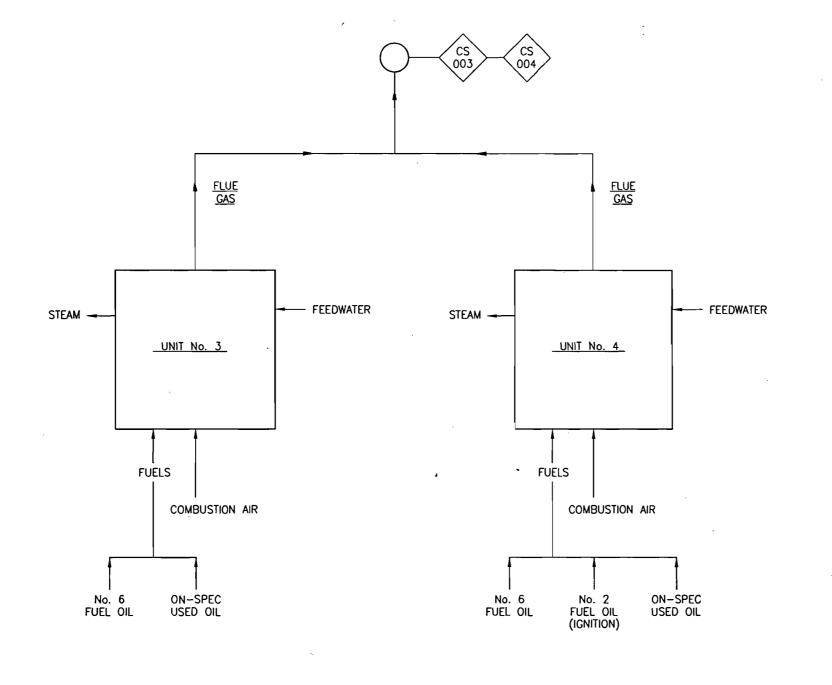
EMISSION POINT

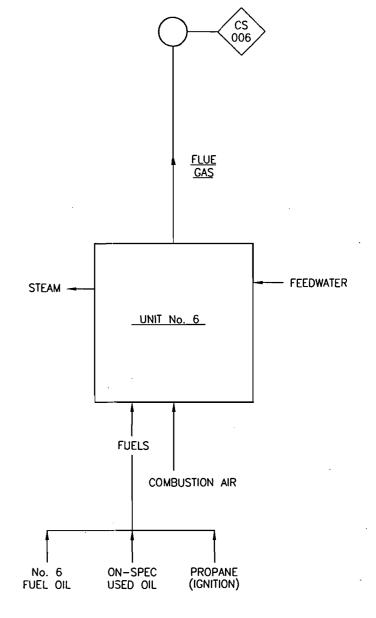
DOCUMENT II.D.3.A.

HOOKERS POINT STATION BOILER PROCESS FLOW DIAGRAM, UNITS 1, 2, AND 5

Source: ECT, 1995.







LEGEND



EMISSION POINT

DOCUMENT II.D.3.B.

HOOKERS POINT STATION BOILER PROCESS FLOW DIAGRAM, UNITS 3, 4, AND 6

Source: ECT, 1995.



П.D.4

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter emissions that may result from operations include:

- Vehicular traffic on paved and unpaved roads.
- Wind-blown dust from yard areas.
- Periodic abrasive blasting.

The following techniques will be used to prevent unconfined particulate matter emissions on an as needed basis:

- Chemical or water application to:
 - O Unpaved roads
 - O Unpaved yard areas
- Paving and maintenance of roads, parking areas and yards.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary

II.D.7 LIST OF PROPOSED EXEMPT ACTIVITIES

Source Unit Type	Status	Basis
Brazing, soldering and welding	Exempt /	62-210.300(3)(a)16., F.A.C.
Parts cleaning and degreasing stations	Insignificant	All cleaning conducted at work stations with lids closed when not in use.
One or more emergency generators which are not subject to the Acid Rain Program and have total fuel consumption, in the aggregate, of 32,000 gallons per year or less of diesel fuel, 4,000 gallons per year or less of gasoline, and 4.4 million cubic feet per year or less of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.	Exempt	62-210.300(3)(a)20., F.A.C.
One or more heating units and general purpose internal combustion engines which are not subject to the Acid Rain Program and have total fuel consumption, in the aggregate, of 32,000 gallons per year or less of diesel fuel, 4,000 gallons per year or less of gasoline, and 4.4 million cubic feet per year or less of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.	Exempt	62-210.300(3)(a)21., F.A.C.
All Storage tanks < 550 gallons	Presumptive exemption	Prior consensus with FDEP: Item 40, Title V Insignificant Source Summary for Electric Power Plants
Inorganic substance storage tanks > 550 gallons	Presumptive exemption, if not HAP	Prior consensus with FDEP: Item 41, Title V Insignificant Source Summary for Sugar Cane Growers
No. 2 and No. 6 fuel oil barge and truck unloading equipment	Insignificant	Handling of low volatility fuel oils.
No. 2 and No. 6 fuel oil storage tanks > 550 gallons	Insignificant	Low volatility materials.
Vehicular traffic on paved roads	Insignificant	Low traffic volumes.
Vehicular traffic on unpaved roads	Insignificant	Low traffic volumes.
Laboratory equipment used exclusively for chemical or physical analyses	Exempt ✓	62-210.300(3)(a)15.,F.A.C.
Fire and safety equipment	Exempt	62-210.300(3)(a)22.,F.A.C.
Turbine vapor extractor	Presumptive exemption	Prior consensus with FDEP: Item 31, Title V Insignificant Source Summary for Electric Power Plants
Architectural (equipment) maintenance painting	Insignificant	Intermittent maintenance painting of equipment.

II.D.13 & 14

COMPLIANCE REPORT, PLAN, AND CERTIFICATION

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

Ш.І.2

FUEL ANALYSES

HOOKERS POINT STATION TYPICAL NO. 6 FUEL OIL ANALYSIS

Sulfur Content:

1.481 weight %

Heat Content:

150,883 Btu/gal

Ash Content:

0.094 weight %

Nitrogen:

0.29 weight %

Source: Coastal Fuels

From: Tampa Electric Company

Laboratory Services Department

5012 Causeway Blvd. Tampa, FL 33597

H.R.S. Certification # E54272

D.E.P. Comprehensive QA Plan #910140

May 14, 1996

To:

Vincent Crane, Hookers Point Tom Culverhouse, Phillips Sta.

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

Sample I.D. AA28757 Location code: HP-#6-PR

Location Description: Phillips Reprocessed #6 Oil

Sample collector: PHILLIPS STA

Sample collection date: 03/19/96 Time: 09:30 Lab submittal date: 03/20/96 Time: 10:04

Sample Matrix: Oil

Phillips Reprocessed #6 Oil Information

Phillips Tank Number: 3 Shipment Date: 03/19/96

Parameter	Result	Units	MDL
API Gravity @ 60 Deg. F	12.3	Degrees API	0.1
Relative Density 60/60 Deg. F	0.9840	_	0.0001
Pounds / Gallon @ 60 Deg. F	8.195	Lbs./Gal.	
Flash Point, No. 6 Oil	242	Degrees F	1.0
Sulfur in Oil	1.38	%	0.02
Ash, Oil	0.50	mass %	0.001
Water in Oil, by Distillation	27.7	% by Volume	0.1
Sediment, by Extraction	0.35	% by Weight	
Pour Point, Oil	28	Degrees F	
Saybolt Furol Viscosity @ 122 F	100.9	SFS	0.1
BTU/Gal., Calculated for Oil	105720	BTU/Gal.	
BTU/Lb., for Oil	12900	BTU/Lb.	1
Pounds SO2 / Million BTU, Oil	2.11	Lbs. SO2/MMBTU	

If there are any questions regarding this data, please call.

Robert L. Dorey Supervisor of Laboratory Services

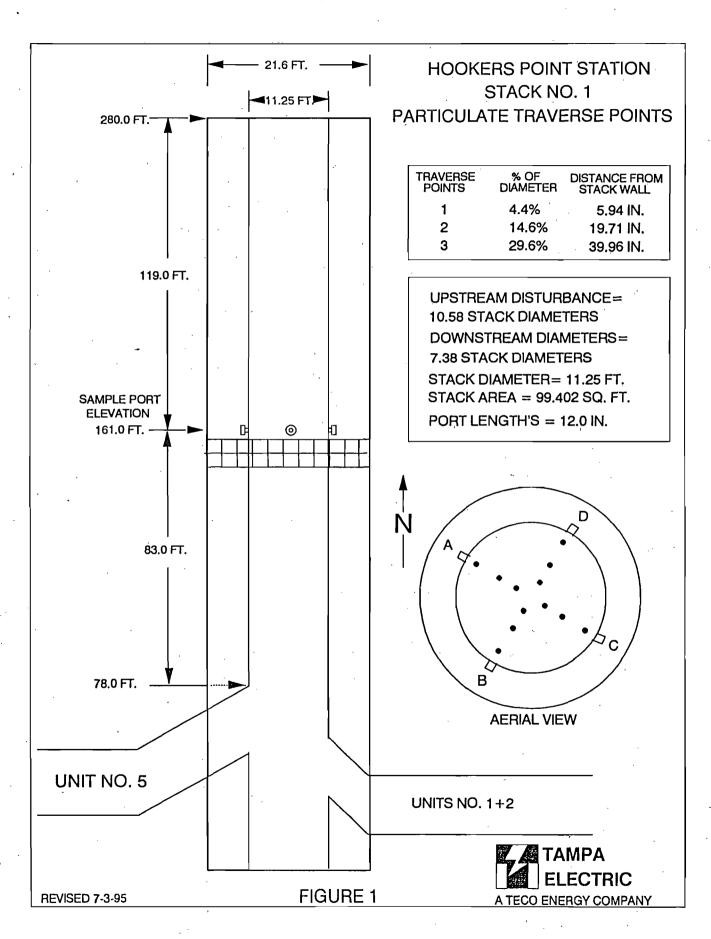
	Ash (weight percent)	Heat Content (Btu/gallon)	Sulfur (weight percent)
Mean	0.001	138,130	0.186
Minimum	0.001	136,280	0.061
Maximum	0.002	139,150	0.393
Range	0.001	2,870	0.332

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

III.I.4 DESCRIPTION OF STACK SAMPLING FACILITIES

DESCRIPTION OF STACK SAMPLING FACILITIES

The test sites for Units 1 through 6 have adequate access, work platforms and test equipment support structures. Diagrams showing the stack sampling locations and other pertinent test site information for each unit are attached. Note that testing of Units 1, 2, and 5 may be conducted in either the individual unit ducts or in Stack No. 1 (CS-001).



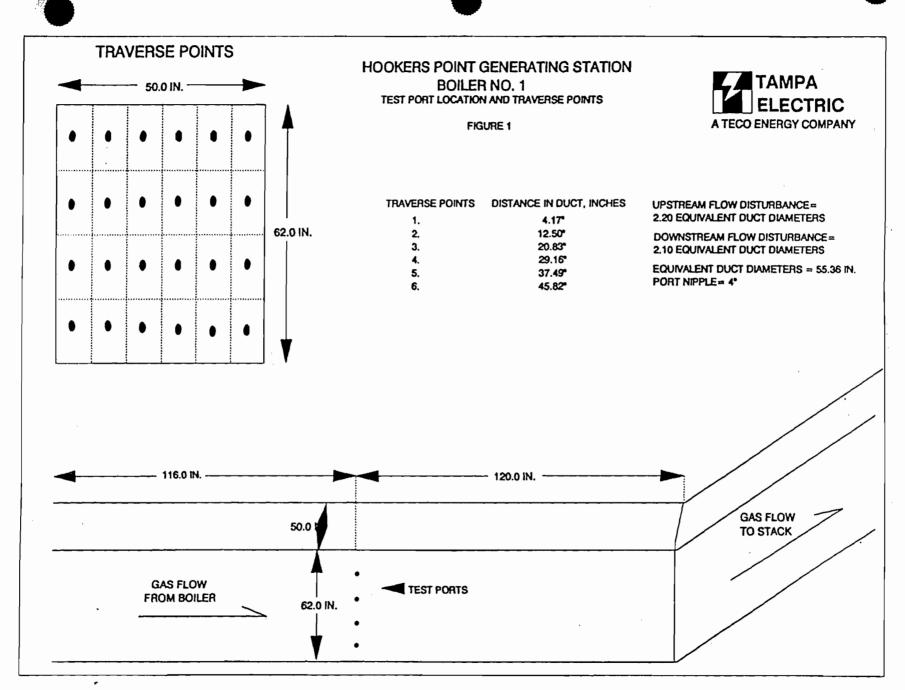


FIGURE 1

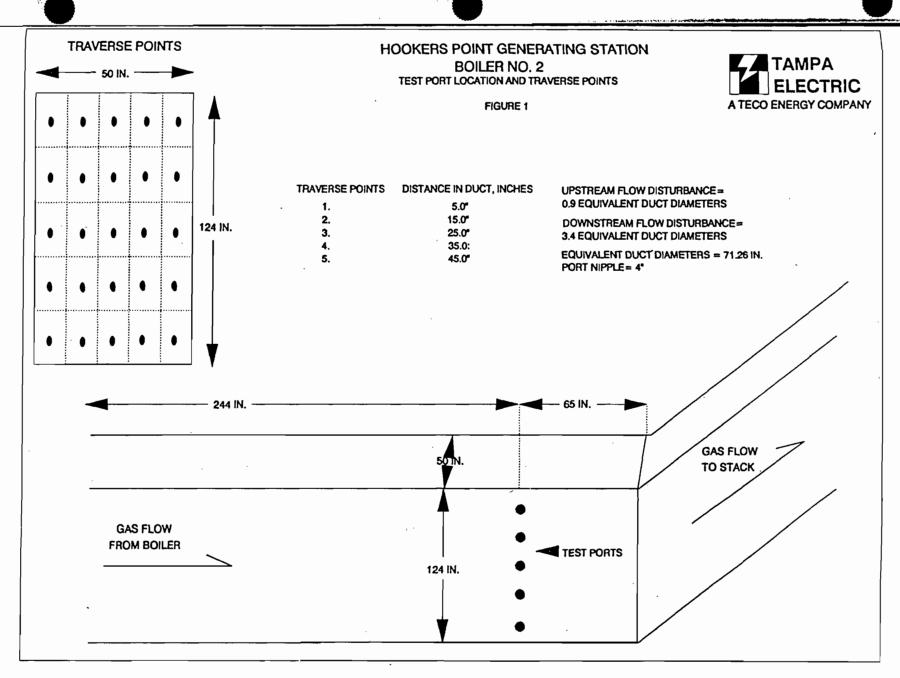


FIGURE 1

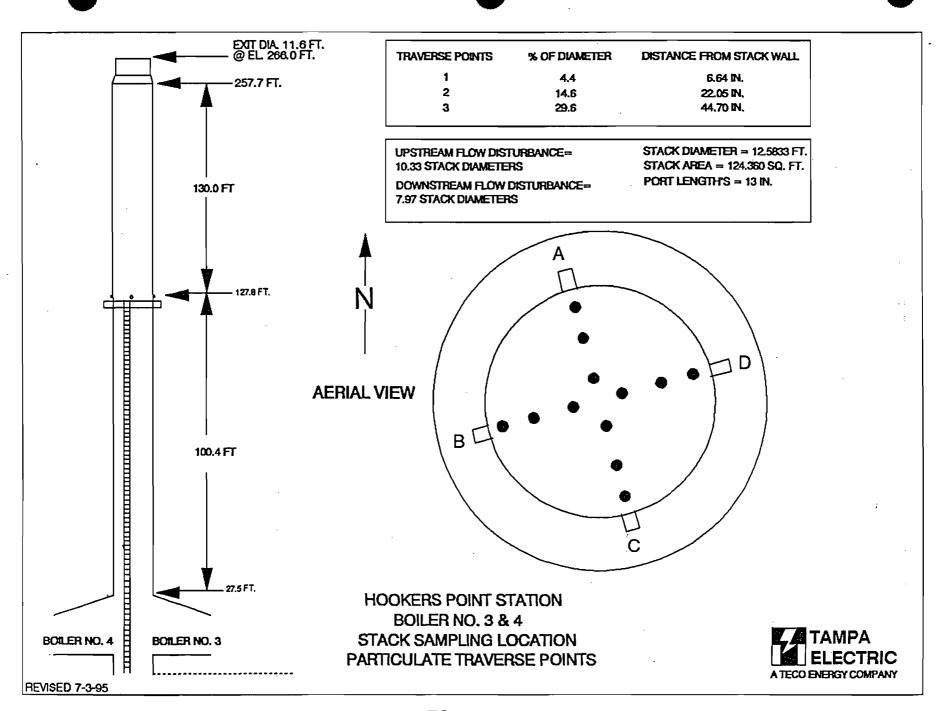
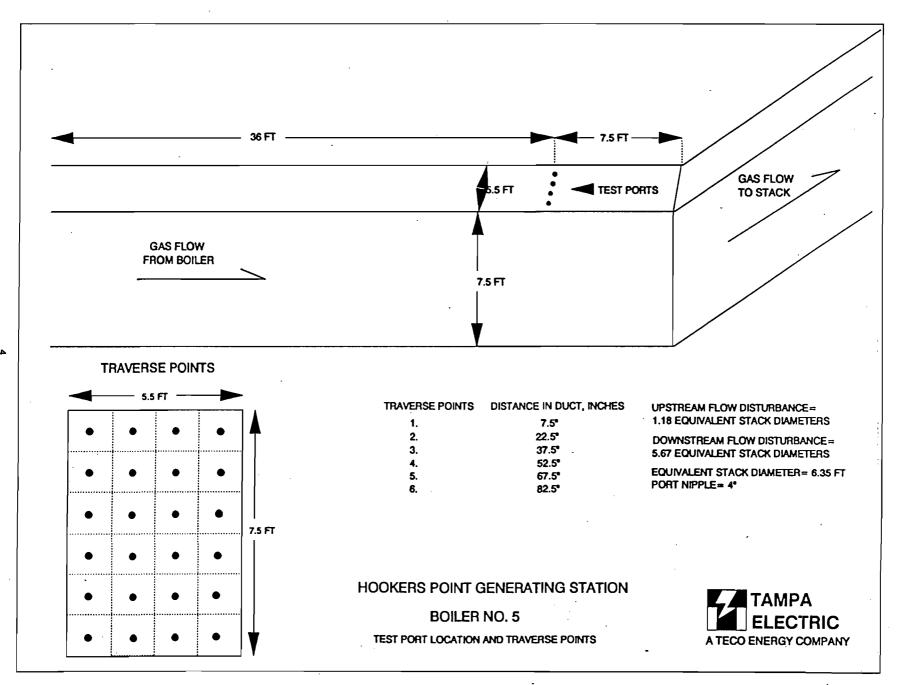
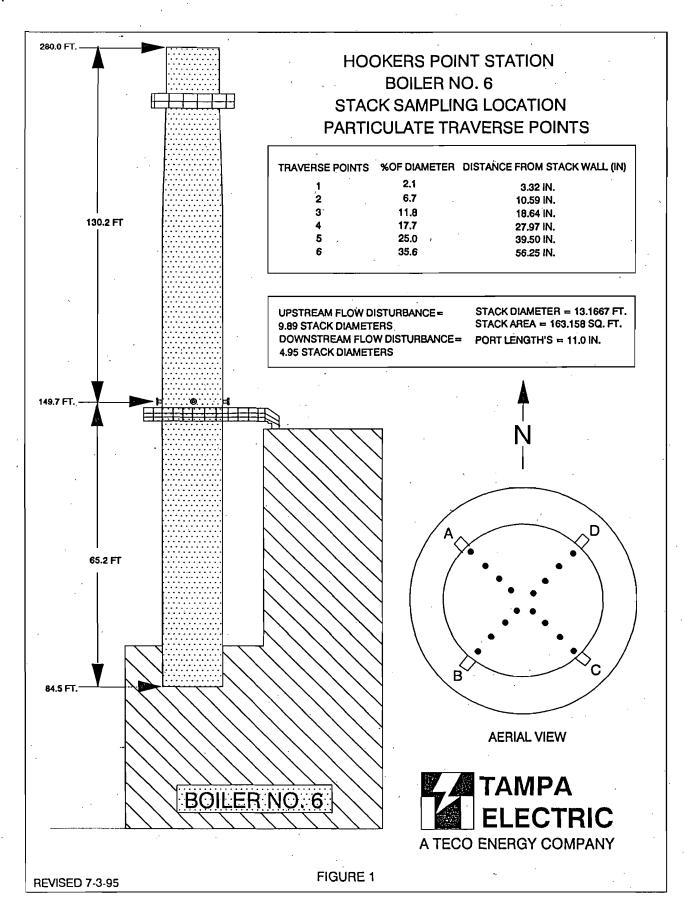


FIGURE 1





III.I.6

PROCEDURES FOR STARTUP AND SHUTDOWN

PROCEDURES FOR STARTUP AND SHUTDOWN UNITS 1, 4, & 5

A. STARTUP

- 1. Boilers are purged to expel all combustible gases.
- 2. Ignitors are placed in service to establish an oil fire.
- 3. Once the combustion air entering the air preheater reaches 250°F., a steam atomizing #6 oil burner is placed in service.
- 4. At 450°F., mechanical # oil burners are placed in service, and the boiler is brought up to running temperature and pressure.
- 5. Excess emissions during startup are minimized by the following activities:
 - Opacity is continuously monitored.
 - Ignitor burner tips are cleaned, checked and replaced as needed before being placed in service.
 - An adequate supply of combustion air is maintained for each boiler.
 - Combustion air is manually and continuously controlled to maintain even combustion.

B. SHUTDOWN

- 1. After the decision for boiler shutdown is made, load and steam header pressure are reduced.
- 2. Air flow, dampers, etc., are manually adjusted.
- 3. Steam turbine is "punched out" when fuel to boilers are out of service and load and steam header pressure are approximately 0 MW and 750 lbs., respectively.
- 4. Exhaust fans are taken out of service after a second purge has been completed.
- 5. Excess emissions during shutdown are minimized by the following activities:
 - Opacity is continuously monitored.
 - Air flow, dampers, etc., are manually adjusted.

PROCEDURES FOR STARTUP AND SHUTDOWN UNITS 2, 3, & 6

A. STARTUP

- 1. Boilers are purged to expel all combustible gases.
- 2. Boilers are placed in service to establish an oil fire.
- 3. At 450°F., mechanical # oil burners are placed in service, and the boiler is brought up to running temperature and pressure.
- 4. Excess emissions during startup are minimized by the following activities:
 - Opacity is continuously monitored.
 - Ignitor burner tips are cleaned, checked and replaced as needed before being placed in service.
 - An adequate supply of combustion air is maintained for each boiler.
 - Combustion air is manually and continuously controlled to maintain even combustion.

B. SHUTDOWN

- 1. After the decision for boiler shutdown is made, load and steam header pressure are reduced.
- 2. Air flow, dampers, etc., are manually adjusted.
- 3. Steam turbine is "punched out" when fuel to boilers are out of service and load and steam header pressure are approximately 0 MW and 750 lbs., respectively.
- 4. Exhaust fans are taken out of service after a second purge has been completed.
- 5. Excess emissions during shutdown are minimized by the following activities:
 - Opacity is continuously monitored.
 - Air flow, dampers, etc., are manually adjusted.

III.I.7

OPERATION AND MAINTENANCE PLAN

A. Process System Performance Parameters:

1) Source Designator: Hooker's Point Unit #1

2) Design Fuel Consumption Rate: 43 barrels per hour

3) Steam Flow: 220,000 pounds per hour

4) Operating Temperature: 900° F.

5) Operating Pressure: 960 psi

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

Continuously Monitored and Recorded

Steam Flow
Steam Temperature
Steam Pressure
Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

A. Process System Performance Parameters:

- 1) Source Designator: Hooker's Point Unit #2
- 2) Design Fuel Consumption Rate: 43 barrels per hour
- 3) Steam Flow: 220,000 pounds per hour
- 4) Operating Temperature: 900° F.
- 5) Operating Pressure: 960 psi
- B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow
Steam Temperature
Steam Pressure
Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

A. Process System Performance Parameters:

- 1) Source Designator: Hooker's Point Unit #3
- 2) Design Fuel Consumption Rate: 59.4 barrels per hour
- 3) Steam Flow: 303,000 pounds per hour
- 4) Operating Temperature: 900° F.
- 5) Operating Pressure: 960 psi
- B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow
Steam Temperature
Steam Pressure
Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

A. Process System Performance Parameters:

- 1) Source Designator: Hooker's Point Unit #4
- 2) Design Fuel Consumption Rate: 59.4 barrels per hour
- 3) Steam Flow: 303,000 pounds per hour
- 4) Operating Temperature: 900° F.
- 5) Operating Pressure: 960 psi
- B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #5
 - 2) Design Fuel Consumption Rate: 86.2 barrels per hour
 - 3) Steam Flow: 440,000 pounds per hour
 - 4) Operating Temperature: 900° F.
 - 5) Operating Pressure: 975 psi
- B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #6
 - 2) Design Fuel Consumption Rate: 126 barrels per hour
 - 3) Steam Flow: 625,000 pounds per hour
 - 4) Operating Temperature: 950° F.
 - 5) Operating Pressure: 1450 psi
- B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

Daily

Check visible emissions.

Maintain optimum flame pattern for efficient fuel combustion.

Monthly

Monitor and back calculate station fuel input rate.

Fuel Oil Analyses

Sample all fuel oil cargos for composite analysis.

During major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

III.I.10 ALTERNATE METHODS OF OPERATION

EMISSION UNIT ALTERNATE METHODS OF OPERATION

1. ALTERNATE FUELS

A. Units affected: Units 1, 4, and 5

<u>Discussion</u>: Residual (No. 6) fuel oil is the primary fuel for Units 1, 4 and 5. Distillate (No. 2) fuel oil is used to startup these units. Units 1, 2, and 5 will continue to meet all applicable requirements while firing either fuel.

B. Unit affected: Units 6

<u>Discussion</u>: Residual (No. 6) fuel oil is the primary fuel for Unit 6. Propane is used to startup this unit. Unit 6 will continue to meet all applicable requirements while firing either fuel.

III.I.12

COMPLIANCE ASSURANCE MONITORING PLAN (RESERVED)

APPENDIX A

REGULATORY APPLICABILITY ANALYSIS

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 2 of 10)

		т-	_	
Regulation Waste Disposal for Manufacturing, Fabricating, Demolition, Renovation, and Spraying	Citation §61.150	Not Applicable	Applicable: Emission Units Facility-wide	Applicable Requirement or Non-Applicability Rationale Standards for waste disposal.
Operations Reporting	§61.153		Facility-wide	Specific reporting requirements.
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants: Subparts A, B, C, D, E, F, H, I, J, K, L, N, O, P, Q, R, T, V, W, Y, BB, and FF		х	-	None of the listed NESHAPS' contain requirements which are applicable to the Hookers Point Station.
40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts A, B, C, D, E, F, G, H, I, L, M, N, O, Q, R, T, W, X, Y, CC, EE, GG, II, and JJ		х		None of the listed NESHAPS' contain requirements which are applicable to the Hookers Point Station. In particular, Subpa Q is not applicable because cooling towers operated with chromium-based water treatment chemicals are not utilized. Subpart T is not applicable because cleaning units using halogenated HAP solvents are not used.
40 CFR Part 72 - Acid Rain Program	m Permits	·		
Subpart A - Acid Rain Program Gener	ral Provisions			
Standard Requirements §72.9			CS-001 through	General Acid Rain Program requirements. SO ₂ allowance program requirements start January 1, 1995.
Subpart B - Designated Representative	•		3.	
Designated Representative	§72.20 - §72.25		CS-001 through CS-006	General requirements pertaining to the Designated Representative.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 3 of 10)

			r	T**
Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Subpart C - Acid Rain Application	•		•	`
Requirements to Apply	§72.30(a)		CS-001 through CS-006	Requirement to submit a complete Acid Rain permit application by the applicable deadline.
Requirements to Apply	§72.30(b)(1)(I)		CS-001 through CS-006	Deadline to submit a complete Acid Rain permit application was February 15, 1993. (historical)
Requirements to Apply	§72.30(c)		CS-001 through CS-006	Requirement to submit a complete Acid Rain permit application for each source with an affected unit at least 6 months prior to the expiration of an existing Acid Rain permit governing the unit during Phase II or such longer time as may be approved under part 70 of this chapter that ensures that the term of the existing permit will not expire before the effective date of the permit for which the application is submitted.
Requirements to Apply	§72.30(d)		CS-001 through CS-006	Requirement to submit an original and three copies of all permit applications, to EPA. (historical)
Information Requirements for Acid Rain Permit Applications	§72.31		CS-001 through CS-006	General permit application requirements.
Subpart D - Acid Rain Compliance Pl	an and Compliance Options			
General	§72.40		CS-001 through CS-006	General compliance plan requirements.
Subpart E - Acid Rain Permit Conten	's	i.		
Permit Shield	§72.51		CS-001 through CS-006	Units operating in compliance with an Acid Rain Permit are deemed to be operating in compliance with the Acid Rain Program.
Subpart I - Compliance Certification	·			
Annual Compliance Certification Report	§72.90		CS-001 through CS-006	Requirement to submit an annual compliance report.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 4 of 10)

			T	
Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 75 - Continuous Emiss	ion Monitoring			
Subpart A - General				
Compliance Dates	§75.4(a)(1)		CS-001 through CS-006	Requirement to complete all certification tests for CEMS and COMS by 11/51/93. (historical)
Prohibitions	§75.5		CS-001 through CS-006	General monitoring prohibitions.
Subpart B - Monitoring Provisions				
General Operating Requirements	§75.10		CS-001 through CS-006	General monitoring requirements.
Specific Provisions for Monitoring SO ₂ Emissions	§75.11(d)(1)		CS-001 through CS-006	SO ₂ continuous monitoring requirements for oil-fired units.
Specific Provisions for Monitoring NO _x Emissions	§75.12(a) and (b)		CS-001 through CS-006	NO _x continuous monitoring requirements for oil-fired units.
Specific Provisions for Monitoring CO ₂ Emissions	§75.13(a)		CS-001 through CS-006	CO ₂ continuous monitoring requirements.
Specific Provisions for Monitoring Opacity	§75.14(a)		CS-001 through CS-006	Opacity continuous monitoring requirements for oil-fired units.
Subpart C - Operation and Maintenan	ce Requirements			
Certification and Recertification Procedures	§75.20(a)		CS-001 through CS-006	Requires that monitoring systems meet initial certification requirements by the deadlines stipulated by §75.4. (historical)
Certification and Recertification Procedures	§75.20(a)(1)		CS-001 through CS-006	Requires notification of certification test or retest dates at least 45 days prior to certification testing.
Certification and Recertification Procedures	§75.20(a)(2)		CS-001 through CS-006	Requires submittal of certification application in accordance with §75.60.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 5 of 10)

Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Certification and Recertification Procedures	§75.20(a)(5)		CS-001 through CS-006	Procedures to be used in the event of agency issues a disapproval of certification application or certification status.
Certification and Recertification Procedures	§75.20(c)(1) - (7), (9)		CS-001 through CS-006	Certification procedure requirements.
Quality Assurance and Quality Control Requirements	§75.21		CS-001 through CS-006	General QA/QC requirements.
Subpart C - Operation and Maintenar	nce Requirements		· · · · · · · · · · · · · · · · · · ·	
Reference Test Methods	§75.22		CS-001 through CS-006	Specifies required test methods to be used for certification or recertification testing.
Out-Of-Control Periods	§75.24		CS-001 through CS-006	Specifies out-of-control periods and required actions to be taken when out-of-control periods occur.
Subpart D - Missing Data Substitution	n Procedures			
General Provisions	§75.30		CS-001 through CS-006	General missing data requirements.
Initial Missing Data Procedures	§75.31		CS-001 through CS-006	Missing data procedure requirements during the first 720 and 2,160 quality-assured monitor operating hours for SO ₂ pollutant concentration monitor and flow monitor/NO _x CEMS, respectively. (historical)
Determination of Monitor Data Availability for Standard Missing Data Procedures	§75.32		CS-001 through CS-006	Monitor data availability procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO ₂ pollutant concentration monitor and flow monitor/NO _x CEMS, respectively.
Standard Missing Data Procedures	§75.33		CS-001 through CS-006	Missing data substitution procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO ₂ pollutant concentration monitor and flow monitor/NO _x CEMS, respectively.
Initial Missing Data Procedures	§75.34(a),(b),(d)	х	CS-001 through CS-006	Optional missing data substitution requirements for units with add-on emission controls.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 6 of 10)

				· · · · · · · · · · · · · · · · · · ·
Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Subpart D - Missing Data Substitution	Procedures	,		
Missing Data Procedures for CO ₂ Data	§75.35a) and (c)	`	CS-001 through CS-006	Missing data substitution requirements for CO ₂ data.
Missing Data Procedures for Heat Input Data	§75.36(a) and (c)		CS-001 through CS-006	Missing data substitution requirements for CO ₂ data.
Subpart E - Alternative Monitoring Sys	tems ,	·		
Alternative Monitoring Systems	§75.40 - 75.48	. ,	CS-001 through CS-006	Optional requirements for alternative monitoring systems.
Subpart F - Recordkeeping Requiremen	us			
General Recordkeeping Provisions	§75.5 0		CS-001 through CS-006	General recordkeeping requirements.
General Recordkeeping Provisions for Specific Situations	§75.51(b)		CS-001 through CS-006	Recordkeeping requirements for units with add-on controls that choose to use parametric monitoring procedures for missing data substitution pursuant to §75.34
Certification, Quality Assurance, and Quality Control Record Provisions	§75.52		CS-001 through	General QA/QC recordkeeping requirements.
Monitoring Plan	§75.53(a) - (c)		CS-001 through CS-006	Requirement to prepare and maintain a Monitoring Plan.
General Recordkeeping Provisions	§75.54	i.	CS-001 through	General recordkeeping requirements.
Subpart G - Reporting Requirements				
General Provisions	§75.60		CS-001 through CS-006	General reporting requirements.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 7 of 10)

Domilation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or
Regulation	Citation	Applicable	Emission Umis	Non-Applicability Rationale
Subpart G - Reporting Requirements		<u> </u>	Γ	<u></u>
Notification of Certification and Recertification Test Dates	§75.6 1		CS-001 through CS-006	Requires written submittal of certification tests, recertification tests, and revised test dates for CEMS. Notice of certification testing shall be submitted at least 45 days prior to the first day of certification or recertification testing. Notification of any proposed adjustment to certification testing dates must be provided at least 7 business days prior to the proposed date change.
Monitoring Plan	§75.62		CS-001 through CS-006	Monitoring Plan required to be submitted no later than 45 days prior to the certification test. (historical)
Subpart G - Reporting Requirements				,
Certification or Recertification Application	§75.63		CS-001 through CS-006	Requires submittal of a certification application within 30 days after completing the certification test.
Quarterly Reports	§75.64(a)(1) - (5)		CS-001 through CS-006	Requirement to submit quarterly data report.
Quarterly Reports	§75.64(b), (c), (d)		CS-001 through CS-006	Requirement to submit compliance certification in support of each quarterly data report. Requirement to submit quarterly reports in an electronic format to be specified by EPA.
Opacity Reports	§75.65		CS-001 through CS-006	Requirement to reports of excess opacity emissions to the applicable State (FDEP) agency in the format specified by the State agency.
Petitions to the Administrator	§75.66		CS-001 through CS-006	Petition procedures for use of alternative monitoring.
40 CFR Part 77 - Excess Emissions				
Offset Plans for Excess Emissions of Sulfur Dioxide	§77.3		CS-001 through CS-006	Requirement to submit offset plans for excess SO ₂ emissions not later than 60 days after the end of any calendar year during which an affected unit has excess SO ₂ emissions. Required contents of offset plans are specified.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 8 of 10)

Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale					
40 CFR Part 77 - Excess Emissions									
Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	§77.5(b)		CS-001 through CS-006	Requirement for the Designated Representative to hold enough allowances in the appropriate compliance subaccount to cover deductions to be made by EPA if a timely and complete offset plan is not submitted or if EPA disapproves a proposed offset plan.					
Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	§77.6		CS-001 through CS-006	Requirement to pay a penalty if excess emissions of SO ₂ or NO _x occur at any affected unit during any year.					
40 CFR Part 78 - Appeal Procedures	for Acid Rain Program								
Appeal Procedures	§78.1 - 78.20		CS-001 through CS-006	Optional appeal procedures for EPA Acid Rain program decisions.					
40 CFR Part 82 - Protection of Strate	ospheric Ozone	•							
Production and Consumption Controls	Subpart A	х		Hookers Point Station does not produce or consume ozone depleting substances.					
Servicing of Motor Vehicle Air Conditioners	Subpart B	х		Hookers Point Station does not perform servicing of motor vehicles which involves refrigerant in the motor vehicle air conditioner. All such servicing is conducted off-site by persons who comply with Subpart B requirements.					
Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Subpart C	x		Hookers Point Station does not sell or distribute any banned nonessential substances.					
The Labeling of Products Using Ozone-Depleting Substances	Subpart E	X		Hookers Point Station does not produce any products containing ozone depleting substances.					

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 9 of 10)

Regulation	Citation	Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 82 - Protection of Strate	ospheric Ozone		-	
Prohibitions	§82.154	X	Appliances as defined by §82.152 - any device which contains and uses a Class I or II substance as a refrigerant and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer	Hookers Point Station personnel do not maintain, service, repair, or dispose of any appliances. All such activities are performed by independent parties in compliance with §82.15 prohibitions.
Required Practices	§82.156	х	Same as above	Hookers Point Station personnel do not maintain, service, repair, or dispose of any appliances. All such activities are performed by independent parties in compliance with §82.15 required practices.
Technician Certification	§82.161	X	Same as above	Hookers Point Station personnel do not maintain, service, repair, or dispose of any appliances and therefore are not subject to technician certification requirements.
Certification By Owners of Recovery and Recycling Equipment	§82.162	х	Same as above	Hookers Point Station personnel do not maintain, service, repair, or dispose of any appliances and therefore do not use recovery and recycling equipment.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 10 of 10)

Regulation	Citation	Not Applicable	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Reporting and Recordkeeping Requirements	§82.166(k)		Appliances as defined by §82.152	Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added.
40 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards		х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 51 - Requirements for Preparation, Adoption, and Submittal of Implementation Plans		х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 52 - Approval and Promulgation of Implementation Plans		х		State agency requirements - not applicable to individual emission sources.
40 CFR Part 62 - Approval and Promulgation of State Plans for Designated Facilities and Pollutants		х	<u> </u>	State agency requirements - not applicable to individual emission sources.
40 CFR Part 70 - State Operating Permit Programs		x		State agency requirements - not applicable to individual emission sources.
40 CFR Parts 53, 54, 55, 56, 57, 58, 62, 66, 67, 68, 69, 71, 73, 74, 76, 79, 80, 81, 85, 86, 87, 88, 89, 90, and 93		x		The listed regulations do not contain any requirements which are applicable to the Hookers Point Station.

Source: ECT, 1996.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 1 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-4, F.A.C Permits: I	Part I General		Г	· ·	
Scope of Part I	62-4.011, F.A.C.	Χ.			Contains no applicable requirements.
Definitions	62-4.020, .021, F.A.C.	X		_	Contains no applicable requirements.
General Prohibition	62-4.030, F.A.C	<i>.</i>	х		All stationary air pollution sources must be permitted, unless otherwise exempted.
Exemptions	62-4.040, F.A.C		x		Certain structural changes exempt from permitting. Other stationary sources exempt from permitting upon FDEP insignificance determination.
Procedure to Obtain Permits; Application	62-4.050(1), (2), (3), and (4).2.a, F.A.C.		х		All permit applications must be submitted on FDEP forms, in quadruplicate, and signed by a Professional Engineer. No application fee is required.
Permit Processing	62-4.055, F.A.C	X			Contains no applicable requirements.
Consultation	62-4.060, F.A.C.	х			Consultation is encouraged, not required.
Standards for Issuing or Denying Permits; Issuance; Denial	62-4.070, F.A.C	X	,		Establishes standard procedures for FDEP. Requirement is not applicable to the facility.
Modification of Permit Conditions	62-4.080, F.A.C	Х			Application is for initial Title V operating permit. A Title V permit condition modification is not requested.
Renewals	62-4.090, F.A.C.	•	х	1	Establishes permit renewal criteria. Additional criteria are cited at 62-213 430(3), F.A.C.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 2 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Suspension and Revocation	62-4.100, F.A.C.		X		Establishes permit suspension and revo- cation criteria.
Financial Responsibility	62-4.110, F.A.C.		х		Proof of financial responsibility may be required.
Transfer of Permits	62-4.120, F.A.C.	Х			Application is for initial Title V operating permit. A sale or legal transfer of a permitted facility is not included in this application.
Plant Operation - Problems	62-4.130, F.A.C.		х		Immediate notification is required when- ever the permittee is temporarily unable to comply with any permit condition. Notification content is specified.
Permit Conditions	62-4.160, F.A.C.		х		Specifies general conditions that must be included in all permits.
Construction Permits	62-4.210, F.A.C.	х			General requirements for construction permits
Operation Permits for New Sources	62-4.220, F.A.C.	х			General requirements for initial new source operation permits.
Chapter 62-103, F.A.C Rules of A	dministrative Procedure -	Final Agency Ac	tion (Non-Rule	making) and A	ppeal
Public Notice of Application and Proposed Agency Action	62-103.150, F.A.C.		х		Applicant may be required to publish Notice of Application

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 3 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-204, F.A.C State In	plementation Plan				
State Implementation Plan	62-204.100, .200, .220(1)-(3), .240, .260, .320, .340, .360, .400, and .500, F.A.C.	х			Contains no applicable requirements.
State Implementation Plan	62-204.800(8)(a), (b)8., F.A.C. ¹		х		NESHAPS Subpart M; see Table A-1 for detailed federal regulatory citations.
State Implementation Plan	62-204.800(12), (13), (14), (15), (16), and (17), F.A.C. ¹			CS-001 through CS-006	Acid Rain Program; see Table A-1 for detailed federal regulatory citations.
State Implementation Plan	62-204.800(19), F.A.C. ¹		х		Protection of Stratospheric Ozone; see Table A-1 for detailed federal regulatory citations.
Ambient Air Quality Protection	62-204.220(4), F.A.C.	x			Assessments of ambient air pollutant impacts must be made using applicable air quality models, data bases, and other requirements approved by FDEP and specified in 40 CFR Part 51, Appendix W. Air quality modeling is not required for Title V permit applications.
Chapter 62-210, F.A.C Stationa	ry Sources - General Requiren	nents			
Purpose and Scope	62-210.100, F.A.C.	. x			Contains no applicable requirements.
Definitions	62-210.200, F.A.C.	х			Contains no applicable requirements.
Permits Required	62-210.300, F.A.C., except 62-210.300(1), F.A.C.		x		Air operation permit required, with the exception of certain facilities and sources. Startup notification required if a permitted source has been shut down for more than 1 year.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 4 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Air Construction Permits	62-210.300(1), F.A.C.	х			Application is for initial Title V operating permit. A construction permit is not requested in this application.
Public Notice and Comment					
Public Notice of Proposed Agency Action	62-210.350(1), F.A.C.		x		All permit applicants required to publish notice of proposed agency action.
Additional Notice Require- ments for Sources Subject to Prevention of Significant Deterioration or Nonattain- ment Area New Source Review	62-210.350(2), F.A.C.	X			PSD and nonattainment area NSR application not included in this application package.
Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources	62-210.350(3), F.A.C.		х		Notice requirements for Title V operating permit applicants.
Public Notice and Hearing Requirements for State Implementation Plan Revi- sions	62-210.350(4), F.A.C.	х			Defines requirements applicable to FDEP, only.
Administrative Permit Corrections	62-210.360, F.A.C.	х		·	Application is for initial Title V operating permit. An administrative permit correction is not requested in this application.
Reports	,				
Notification of Intent to Relocate Air Pollutant Emit- ting Facility	62-210.370(1), F.A.C.	х			Facility does not have any relocatable emission units.
Annual Operating Report for Air Pollutant Emitting Facility	62-210.370(2), F.A.C.		х		Specifies annual reporting requirements

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 5 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Stack Height Policy	62-210.550, F.A.C.		х		Stack heights must represent Good Engineering Practice.
Circumvention	62-210.650, F.A.C.	x			There are no air pollution control devices located at the Dinner Lake Station.
Excess Emissions	62-210.700, F.A.C.		х		Excess emissions due to startup, shut down, and malfunction are limited. Excess emissions due to malfunction must be reported. Excess emissions due to certain other causes are prohibited.
Forms and Instructions	62-210.900, F.A.C.		х		Contains AOR requirements.
Notification Forms for Air General Permits	62-210.920, F.A.C.	х			Contains no applicable requirements.
Chapter 62-212, F.A.C Stationary	Sources - Preconstruction	Review			
Purpose and Scope	62-212.100, F.A.C.	х			Contains no applicable requirements.
General Preconstruction Review Requirements	62-212.300, F.A.C.	х			Air construction permit requirements, not applicable to Title V operating permit applications.
Prevention of Significant Deteriora-	62-212.400, F.A.C.	х			PSD permit required prior to construction of facility, not applicable to Title V operating permit applications.
New Source Review for Nonattain- ment Areas	62-212.500, F.A.C.	. X	;		Facility not located in any nonattainment area or nonattainment area of influence.
Sulfur Storage and Handling Facilities	62-212.600, F.A.C.	х			Applicable only to sulfur storage and handling facilities.
Chapter 62-213, F.A.C Operation	Permits for Major Source	s of Air Pollution	· 1		
Purpose and Scope	62-213.100, F.A.C.	x			Contains no applicable requirements.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 6 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Annual Licensing Fee	62-213.205(1) and (4), F.A.C.		x		Operating license fee and documentation requirements.
Annual Licensing Fee	62-213.205(2), (3), and (5), F.A.C.	x			Contains no applicable requirements.
Title V Air General Permits	62-213.300, F.A.C.	х			No eligible facilities
Permits and Permit Revisions Required	62-213.400, F.A.C.		x		Title V operation permit required.
Changes Without Permit Revision	62-213.410, F.A.C.		х		Certain changes may be made if specific notice and recordkeeping requirements are met.
Immediate Implementation Pending Revision Process	62-213.412, F.A.C.		х		Certain modifications can be implemented pending permit revision if specific criteria are met.
Fast-Track Revisions of Acid Rain Parts	62-213.413, F.A.C.		х		Optional provisions for Acid Rain permit revisions.
Trading of Emissions within a Source	62-213.415, F.A.C.	· X			Applies only to facilities with a federally enforceable emissions cap.
Permit Applications	62-213.420, F.A.C.		х		Title V operating permit application required.
Permit Issuance, Renewal, and Revision					, , , , , , , , , , , , , , , , , , , ,
Action on Application	62-213.430(1), F.A.C.	x			Contains no applicable requirements.
Permit Denial	62-213.430(2), F.A.C.	x			Contains no applicable requirements.
Permit Renewal and Expiration	62-213.430(3), F.A.C.		x ,		Defines permit renewal application contents.
Permit Revision	62-213.430(4), F.A.C.		X -		Defines permit revision application contents.
EPA Recommended Actions	62-213.430(5), F.A.C.	X			Contains no applicable requirements.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 7 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Permit Content	62-213.440, F.A.C.		x		Defines permit content.
Permit Review by EPA and Affected States	62-213.450, F.A.C.	х			Contains no applicable requirements.
Permit Shield	62-213.460, F.A.C.		x .	·	Provides permit shield for facilities in compliance with permit terms and conditions.
Forms and Instructions	62-213.900, F.A.C.		х	<u> </u>	Contains fee form requirements.
Chapter 62-214—Requirements for Sources Subject to the Federal Acid Rain Program					
Purpose and Scope	§62-214.100, F.A.C.	x			Contains no applicable requirements.
Applicability	§62-214.300, F.A.C.		х		Facility includes Acid Rain units, therefore facility compliance with §62-213 and §62-214, F.A.C., is required.
Applications	§62-214.320, F.A.C.			CS-001 through CS-006	An Acid Rain Part application for each Acid Rain unit must be included in the Title V operating permit application.
Acid Rain Compliance Plan and Compliance Options	§62-214.330, F.A.C.	•		CS-001 through CS-006	A complete Acid Rain compliance plan for each Acid Rain unit must be included in the Acid Rain Part application.
Exemptions	§62-214.340, F.A.C.	, 		CS-001 through CS-006	An application may submitted for certain exemptions.
Certification	§62-214.350, F.A.C.			CS-001 through CS-006	The designated representative must certify all Acid Rain submissions.
Department Action on Applications	§62-214.360, F.A.C.	X			Contains no applicable requirements.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 8 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Revisions and Administrative Corrections	§62-214.370, F.A.C.			CS-001 through CS-006	Defines revision procedures and automatic amendments.
Acid Rain Part Content	§62-214.420, F.A.C.			CS-001 through CS-006	Defines the contents of any draft, proposed, or final Acid Rain Part.
Implementation and Termination of Compliance Options	§62-214.430, F.A.C.			CS-001 through CS-006	Defines permit activation and termination procedures.
Chapter 62-252 - Gasoline Vapor Control	62-252, F.A.C.	х			Facility has a gasoline throughput of less than 20,000 gal/month.
Chapter 62-256 - Open Burning and	Frost Protection Fires				
Declaration and Intent	62-256.100, F.A.C.	x			Contains no applicable requirements.
Definitions	62-256.200, F.A.C.	X			Contains no applicable requirements.
Prohibitions	62-256.300, F.A.C. ¹	•	х		Prohibits open burning.
Burning for Cold and Frost Protection	62-256.450, F.A.C.	x			Limited to agricultural protection.
Land Clearing	62-256.500, F.A.C. ¹		х		Defines allowed open burning for non-rural land clearing and structure demolition.
Industrial, Commercial, Municipal, and Research Open Burning	62-256.600, F.A.C.		X		Prohibits industrial open burning.
Open Burning allowed	62-256.700, F.A.C.	Х			Contains no applicable requirements.
Effective Date	62-256.800, F.A.C.	X			Contains no applicable requirements.
Chapter 62-257 - Asbestos Fee	62-257, F.A.C. ¹		х		Requires notice and payment of fee for asbestos removal projects.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 9 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-281 - Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling	62-281, F.A.C.	x			Facility does not install or service motor vehicle air conditioners and does not perform vehicle maintenance that may release refrigerants.
Chapter 62-296 - Stationary Source	Emission Standards				
Purpose and Scope	62-296.100, F.A.C.	x			Contains no applicable requirements
General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions	62-296.320(1), F.A.C.		х		Known and existing vapor control devices must be applied as required by the Department.
General Pollutant Emission Limiting Standard, Objectionable Odor Prohibited	62-296.320(2), F.A.C.		x		Objectionable odor release is not allowed.
General Pollutant Emission Limiting Standard, Industrial, Commercial, and Municipal Open Burning Prohibited	62-296.320(3), F.A.C. ¹		x		Open burning in connection with industrial, commercial, or municipal operations is prohibited.
General Particulate Emission Limiting Standard, Process Weight Table	62-296.320(4)(a), F.A.C.	х			Exempt per 62-320(4)(a)1a.
General Particulate Emission Limit- ing Standard, General Visible Emission Standard	62-296.320(4)(b), F.A.C.		х		Opacity limited to 20 percent, unless otherwise permitted.
General Particulate Emission Limit- ing Standard, Unconfined Emission of Particulate Matter	62-296.320(4)(c), F.A.C.	:	x		Reasonable precautions must be taken to prevent unconfined particulate matter emission.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 10 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Specific Emission Limiting and Performance Standards	§62-296.405(1)(a), (b), (c)1.d., (c)3., (e), F.A.C.			CS-001 through CS-006	(1) Visible Emissions - 20 percent opacity except for either one six-minute period per hour during which opacity shall not exceed 27 percent, or one two-minute period per hour during which opacity shall not exceed 40 percent. The option selected shall be specified in the source's construction and operation permits. (2) Particulate Matter - 0.1 lb/MMBtu (3) Sulfur Dioxide - 1.1 lb/MMBtu Specifies test methods and procedures
Specific Emission Limiting and Performance Standards	62-296.401 through 62- 296.404 and 62-296.406 through 62-296.417, F.A.C.	x			No applicable unit at facility.
Reasonably Available Control Technology (RACT) Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO ₂) Emitting Facilities	62-296.500 through 62- 296.516, F.A.C.	х			Facility does not include any regulated emission units.
Reasonably Available Control Technology (RACT) - Requirements for Major VOC- and NO _x -Emitting Facilities	62-296.570, F.A.C.	х			Facility is not located in a specified VOC nonattainment area or a specified VOC air quality maintenance area (Broward, Dade and Palm Beach Counties)
Reasonably Available Control Technology (RACT) - Lead	62-296.600 through 62- 296.605, F.A.C.	х			Facility not located in a lead nonattainment area or a lead air quality maintenance area.
Reasonably Available Control Technology (RACT) - Particulate Matter	62-296.700, F.A.C.			CS-001 through CS-006	Requires compliance with specific, applicable emission limiting standards.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 11 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Reasonably Available Control Technology (RACT) - Particulate Matter	§62-296.701, §62- 296.703 through §62- 296.712, F.A.C.	х			Facility does not include any regulated emission units.
Fossil Fuel Steam Generators	§62-296.702, F.A.C.			CS-001 through CS-006	Defines specific emission limitations for the applicable emission units.
Chapter 62-297 - Stationary Sources	- Emissions Monitoring				
Purpose and Scope	62-297.100, F.A.C.	х			Contains no applicable requirements.
General Test Requirements	62-297.310, F.A.C.			CS-001 through CS-006	Specifies general compliance test requirements.
Compliance Test Methods	62-297.401, F.A.C.	х		,	Contains no applicable requirements.
Supplementary Test Procedures	62-297.440, F.A.C.	х			Contains no applicable requirements.
EPA VOC Capture Efficiency Test Procedures	62-297.450, F.A.C.	х			Contains no applicable requirements.
CEMS Performance Specifications	62-297.520, F.A.C.	х			Contains no applicable requirements.
Exceptions and Approval of Alternate Procedures and Requirements	62-297.620, F.A.C.	х			Exceptions or alternate procedures have not been requested.
Operating Permits					
	AO29-203001		£	CS-001	See Appendix D for permit text and conditions.
	AO29-203000			CS-002	See Appendix D for permit text and conditions.
	AO29-202999			CS-003	See Appendix D for permit text and conditions.
	AO29-202998			CS-004	See Appendix D for permit text and conditions.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 12 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility- Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
	AO29-202997			CS-005	See Appendix D for permit text and conditions.
	AO29-203002			CS-006	See Appendix D for permit text and conditions.

¹ - State requirement only; not federally enforceable.

Source: ECT, 1996.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for Hookers Point Station (Page 1 of 10)

Regulation	Citation	Not Applicable	Åpplicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 60 - Standards of Performance for New Stationary Sources: Subparts A, B, C, Cb, Cc, Cd, D, Da, Db, Dc, E, Eb, F, G, H, I, J, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, and WWW		х		None of the listed NSPS' contain requirements which are applicable to the Hookers Point Station. In particular, Subparts K, Ka, and Kb are not applicable because all storage tanks containing petroleum liquids greater than 40,000 gallons capacity located at the Hookers Point Station were constructed prior to June 11, 1973 and therefore are not subject to Subparts K, Ka, or Kb. Subparts D, Da, Db, and Dc are not applicable because the steam boilers were constructed prior to August 17, 1971.
40 CFR Part 61 - National Emission	on Standards for Hazardous A	ir Pollutants		·
Subpart A - General Provisions				
Prohibited Activities	§61.05		Facility-wide	Prohibits construction or modification with- out first obtaining written approval, operating a new source in violation of any standard after the effective date of the standard, operating an existing source in violation of a standard ninety days after the effective date of the standard, and failure to submit required source test results.
Source Reporting	§61.10		Facility-wide	Requires submittal of source information.
Compliance with Standards and Maintenance Requirements	§61.12		Facility-wide	Establishes emission test procedures, requires proper operation and maintenance of the source including control equipment.
Monitoring Requirements	§61.14		Facility-wide	General monitoring requirements.
Circumvention	§ 61.19		Facility-wide	Emissions which would constitute a violation of a standard cannot be concealed.
Subpart M - National Emission Stan	dards for Asbestos			
Demolition and Renovation	§61.145		Facility-wide	Standards for demolition and renovation.

Tampa Electric Company Hookers Point Station — Emission Limited Pollutant Summary

Criteria Pollutants

Emissions	Emission Ra	ates (ton/yr)
Unit	SO ₂	PM
Unit 1	1,435.8	163.2
Unit 2	1,435.8	163.2
Unit 3	1,980.2	225.0
Unit 4	1,980.2	225.0
Unit 5	2,939.0	334.0
Unit 6	3,748.4	426.0

APPENDIX C

EMISSION INVENTORY WORKSHEETS

EMISSION INVENTORY WORKSHEET

Tampa Electric Company - Hookers Point Station

CS-001

EMISSION SOURCE TYPE

RES	IDUAL FUEL OIL COM	IBUSTION - CRITER	RIA POLLUTAN	TS	Document:	II.D.2.
		ACILITY AND SOUR	CE DESCRIPT	ION		
Emission Source	Description:	Unit No. 1; Fired With No	. 6 Fuel Oil		•	
Emission Control	Method(s)/ID No.(s):	None				
Emission Point ID: CS-001						
EMISSION ESTIMATION EQUATIONS						
Emission (Ib/bs) — He	eat Input (MMBtw/hr) x Pollutant	Emission Easter (Sh/MMRtu)				
	leat Input (MMBtu/hr) x Poliutan		x Operating Period (I	ws/yr) x (1 ton/2,000) lb)	
Source: ECT, 199	95.			<u> </u>		
						,
Operating Hours:		<i>T DATA AND EMISS</i> Hrs/Day		<i>A HONS</i> ays/Wk	8,760 Hi	re Nr
Sulfur Content:		wt. %	. 10	ays/ vik	0,700 111	3/11
0-141-	9.0	Delladand	Poten		-	
Criteria Pollutant	Maximum Heat Input	Pollutant Emission Factor ¹	Poten Emission			
Fondant	(MMBtu/hr)	(MMBtu/hr)	(lb/hr)	(tpy)		
80	298.0	1.100	327.80	1,435.8		
SO ₂	298.0	0.300	89.40	163.2		
	/ariable	SOURCES OF		a Source		
Operating Hours	anable	TEC, 1995.	Date	a Source		
Maximum Heat In	put	TEC, 1995.	·			
Emission Factors		Allowable emissions.				
		NOTES AND OB	SERVATIONS			
¹ PM represents	filterable particulate matter			lay at 0.3 lb/MME	3tu	, ,
and 21 hrs/day	at 0.1 lb/MMBtu.					
	 	·	•	1		-
	· · · · · · · · · · · · · · · · · · ·					
		<u>D</u> ATA CO	NTROL			
Data Collected	l by:	T. Davis			Date:	10/26/94
Evaluated by:		T. Davis			Date:	10/26/94
Data Entered b	oy:	T. Davis	,		Date:	8/29/95
Reviewed by:					Date:	

EMISSION INVENTORY WORKSHEET

Tampa Electric Company - Hookers Point Station

EMISSION SOURCE TYPE

RESIDUAL FUEL OIL COMBUSTION - CRITERIA POLLUTANTS **Document:** II.D.2. FACILITY AND SOURCE DESCRIPTION **Emission Source Description:** Unit No. 2: Fired With No. 6 Fuel Oil Emission Control Method(s)/ID No.(s): None CS-002 **Emission Point ID:** EMISSION ESTIMATION EQUATIONS Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/2,000 lb) Source: ECT, 1995. INPUT DATA AND EMISSIONS CALCULATIONS 8,760 Hrs/Yr **Operating Hours:** 24 Hrs/Day 7 Days/Wk Sulfur Content: 1.0 wt. % **Potential** Criteria Maximum Pollutant Pollutant Emission Factor¹ **Emission Rates** Heat Input (MMBtu/hr) (MMBtu/hr) (lb/hr) (tpy) 298.0 1.100 327.80 1,435.8 SO, PM 298.0 0.300 89.40 163.2 SOURCES OF INPUT DATA Variable **Data Source** TEC, 1995. **Operating Hours** Maximum Heat Input TEC, 1995. Emission Factors (SO2 and PM) Allowable emissions. NOTES AND OBSERVATIONS PM represents filterable particulate matter. Annual emissions (tpy) based on 3 hrs/day at 0.3 lb/MMBtu and 21 hrs/day at 0.1 lb/MMBtu. DATA CONTROL Data Collected by: T. Davis Date: 10/26/94 Evaluated by: T. Davis Date: 10/26/94 Data Entered by: T. Davis Date: 8/29/95 Reviewed by: Date:

EMISSION INVENTORY WORKSHEET CS-003 Tampa Electric Company - Hookers Point Station EMISSION SOURCE TYPE **RESIDUAL FUEL OIL COMBUSTION - CRITERIA POLLUTANTS Document:** II.D.2. FACILITY AND SOURCE DESCRIPTION Unit No. 3; Fired With No. 6 Fuel Oil **Emission Source Description:** Emission Control Method(s)/ID No.(s): None CS-003 EMISSION ESTIMATION EQUATIONS Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/2,000 lb) INPUT DATA AND EMISSIONS CALCULATIONS 24 Hrs/Day 7 Days/Wk 8,760 Hrs/Yr

Operating Hours:		Hrs/Day	7 [Days/Wk	8,76	0 Hrs/Yr
Sulfur Content:	1.0	wt. %				
Criteria Pollutant	Maximum Heat Input	Pollutant Emission Factor ¹	Potential Emission Rates			
· onatant	(MMBtu/hr)	(MMBtu/hr)	(lb/hr)	(tpy)		
80-	411.0	1,100	452.10	1,980.2		•
SO ₂	411.0	0.300	123.30	225.0		
		SOURCES OF I	NPUT DATA			
Var	iable			a Source		
Operating Hours		TEC, 1995.		-		-
Maximum Heat Input		TEC, 1995.	,			•
Emission Factors (SC	D ₂ and PM)	Allowable emissions.		•		
		NOTES AND OBS	SERVATIONS			
DM socrete fits	-obla a ostioulata matta			dov. et 0.9 lb/MME	24-	
PM represents title	rabie particulate matte	r. Annual emissions (tpy)	Dased on 3 nrs/	DAY AT U.S ID/MME	<u>xu</u>	
and 21 hrs/day at	0.1 lb/MMBtu.					
		- ;				
			• .			
		DATA CON	ITROL			
Data Collected by	y:	T. Davis			Date:	10/26/9
·	-					· · · · · ·

Evaluated by: T. Davis Date: 10/26/94 Data Entered by: T. Davis Date: 8/29/95 Date: Reviewed by:

Emission Point ID:

Source: ECT, 1995.

EMISSION INVENTORY WORKSHEET Tampa Electric Company - Hookers Point Station EMISSION SOURCE TYPE

RESIDUAL FUEL OIL COMBUSTION - CRITERIA POLLUTANTS						II.D.2.	
FACILITY AND SOURCE DESCRIPTION							
Emission Source Description: Unit No. 4; Fired With No. 6 Fuel Oil							
Emission Control Method(s)/ID No.(s): None							
Emission Point ID: CS-004							
EMISSION ESTIMATION EQUATIONS							
	Input (MMBtu/hr) x Pollutant				_		
Emission (ton/yr) = Hea	t Input (MMBtu/hr) x Poliutar	t Emission Factor (tb/MMBtu)	x Operating Period (hr	rs/yr) <u>x (1 ton/2,000</u>) lb)		
Source: ECT, 1995.							
		IT DATA AND EMISS					
Operating Hours: Sulfur Content:		Hrs/Day wt. %	7 Da	ıys/Wk	8,760 Hi	s/Yr	
Sullur Content:	1.0	W.L. 70					
Criteria	Maximum	Pollutant	Potenti	al			
Pollutant	Heat Input	Emission Factor ¹	Emission I				
	(MMBtu/hr)	(MMBtu/hr)	(lb/hr)	(tpy)		`	
SO ₂	411.0	1.100	452.10	1,980.2			
PM ¹	411.0	0.300	123.30	225.0			
		SOURCES OF I	NPUT DATA				
Val	riable			Source			
Operating Hours		TEC, 1995.					
Maximum Heat Inpu		TEC, 1995.			-		
Emission Factors (S	O ₂ and PM)	Allowable emissions.		-			
		NOTES AND OB	SERVATIONS				
1 PM represents filt	erable particulate matte	r. Annual emissions (tpy)	based on 3 hrs/da	ay at 0.3 lb/MME	 3tu		
and 21 hrs/day at							
		DATA CO	NTROL				
Data Collected b	py:	T. Davis			Date:	10/26/94	
Evaluated by:	-	T. Davis			Date:	10/26/94	
Data Entered by		T. Davis		1	Date:	8/29/95	
Reviewed by:					Date:		
•							



EMISSION INVENTORY WORKSHEET

Tampa Electric Company - Hookers Point Station

EMISSION SOURCE TYPE

II.D.2

CS-005

RESIDUAL FUEL OIL COMBUSTION - CRITERIA POLLUTANTS FACILITY AND SOURCE DESCRIPTION						II.D.2.	
Emission Source		<u>, </u>					
Emission Control Method(s)/ID No.(s): None							
Emission Point ID	Emission Point ID: CS-005						
		EMISSION ESTIMA	TION EQUATIO)NS			
Emission (lb/hr) = He	eat Input (MMBtu/hr) x Pollutant	Emission Factor (lb/MMBtu)					
Emission (ton/yr) = I-	leat Input (MMBtu/hr) x Poliutar	t Emission Factor (lb/MMBtu	x Operating Period	(hrs/yr) x (1 ton/2,000	0 lb)	_	
Source: ECT, 199	95.		`		•		
	INPU	IT DATA AND EMISS	SIONS CALCUI	ATIONS			
Operating Hours: Sulfur Content:		Hrs/Day wt. %	7 !	Days/Wk	8,760 H	rs/Yr	
Sultur Content:	1.0	wt. 76					
Criteria '	Maximum	Pollutant	Pote	ntial			
Pollutant	Heat Input	Emission Factor ¹	Emissio	n Rates	ı.		
	(MMBtu/hr)	(MMBtu/hr)	(lb/hr)	(tpy)			
SO ₂	610.0	1.100	671.00	2,939.0			
SO ₂	610.0	0.300	183.00	334.0			
		SOURCES OF	INDIIT DATA				
V	ariable	, SOUNDES OF		ta Source	•		
Operating Hours		TEC, 1995.					
Maximum Heat In	out	TEC, 1995.			T.		
Emission Factors	(SO ₂ and PM)	Allowable emissions.	·				
			•				
		NOTES AND OF	RSERVATIONS	*			
¹ PM represents t	filterable particulate matte				Btu -		
and 21 hrs/day	at 0.1 lb/MMBtu.	•					
					·		
					_		
		DATA CO	NTROL				
						10/26/94	
Evaluated by:		T. Davis		,	Date:	10/26/94	
Data Entered b	y:	T. Davis		,	Date:	8/29/95	
Reviewed by:	· · · · ·				Date:		

EMISSION INVENTORY WORKSHEET CS-006 Tampa Electric Company - Hookers Point Station EMISSION SOURCE TYPE RESIDUAL FUEL OIL COMBUSTION - CRITERIA POLLUTANTS **Document:** II.D.2. FACILITY AND SOURCE DESCRIPTION **Emission Source Description:** Unit No. 6; Fired With No. 6 Fuel Oil Emission Control Method(s)/ID No.(s): None CS-006 Emission Point ID: EMISSION ESTIMATION EQUATIONS Emission (lb/hr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) Emission (ton/yr) = Heat Input (MMBtu/hr) x Pollutant Emission Factor (lb/MMBtu) x Operating Period (hrs/yr) x (1 ton/2,000 lb) Source: ECT, 1995. INPUT DATA AND EMISSIONS CALCULATIONS **Operating Hour** 7 Days/Wk 8,760 Hrs/Yr 24 Hrs/Day Sulfur Content: 1.0 wt. % Criteria **Pollutant Potential** Maximum **Pollutant** Heat Input Emission Factor¹ **Emission Rates** (MMBtu/hr) (MMBtu/hr) (lb/hr) (tpy) SO₂ 778.0 1.100 855.80 3,748.4 778.0 0.300 233.40 426.0 SOURCES OF INPUT DATA Variable Data Source TEC, 1995. Operating Hours Maximum Heat Input TEC, 1995. Emission Factors (SO2 and PM) Allowable emissions. NOTES AND OBSERVATIONS PM represents filterable particulate matter. Annual emissions (tpy) based on 3 hrs/day at 0.3 lb/MMBtu and 21 hrs/day at 0.1 lb/MMBtu. DATA CONTROL Data Collected by: T. Davis Date: 10/26/94 Evaluated by: T. Davis Date: 10/26/94 Data Entered by: T. Davis Date: 8/29/95 Reviewed by: Date:

APPENDIX D
CURRENT PERMITS



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-73-17

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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 33601-0111 DER File No.: A029-203001 County: Hillsborough

Enclosed is Permit Number A029-203001 to operate a 298 MMBTU/hr. steam generator designated as Unit #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;

Tampa Electric Company
Tampa, FL 33601-0111

- (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

Executed in Tampa, Florida

Sincerely,

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

JHK/SKW/bm

r:

Attachment:

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

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 1 9 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.

Marilya Chuske DEC 1 9 1991

Clerk Date



Florida Department of Environmental Regulation_

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-73

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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

PERMIT/CERTIFICATION
Permit No: A029-203001
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point
Station Unit #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 298 MMBTU/hr. steam generator designated as Unit #1. This front firing type boiler was manufactured by Babcock and Wilcox Corporation and is fired on No. 6 fuel oil. The unit has no add-on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit Nos. 1, 2, and 5 share the same stack exhaust (#5 stack), located on the west side of the building between stacks #2 and #4.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 01

Replaces Permit No.: A029-125685

PERMIT/CERTIFICATION NO.: A029-203001 PROJECT: Hooker's Point Station

Unit #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 maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]
- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
- 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]



PERMIT/CERTIFICATION NO.: A029-203001

PROJECT: Hooker's Point Station

Unit #1

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
 - (X) Particulates**

(X) Sulfur Dioxide*

(X) Opacity**

- * Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the density (lbs./gal.) and the sulfur content (% by weight).
- ** Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. 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.
- 7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (298 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test

PERMIT/CERTIFICATION NO.: A029-203001

PROJECT: Hooker's Point Station

Unit #1

SPECIFIC CONDITIONS: (continued)

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.]

- 8. Compliance with the emission limitations of Specific Condition Nos. " 2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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.
 - 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.
 - Annual emissions (note calculation basis). (B)
 - Any changes in the information contained in the permit application.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

Operation and Maintenance Plan (Rule 17-2.650(2)(g), F.A.C.]

Process System Performance Parameters:

Rule 67-296.700(6), KA.C.

- Source Designator: Hooker's Point Unit #1
- Design Fuel Consumption Rate: 43 barrels per hour
- 3) Steam Flow: 220,000 pounds per hour
- Operating Temperature: 900° F.
- Operating Pressure: 960 psi
- The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-203001

PROJECT: Hooker's Point Station

Unit #1

SPECIFIC CONDITIONS: (continued)

<u>Daily</u>

Check visible emissions
Sample fuel oil for monthly composite analysis
Maintain optimum flame pattern for efficient fuel combustion

Monthly

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- C. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]
- 11. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules, 17-2.700(2)(a)9. and 17-2.820(5), F.A.C] See Amendment Carlo 2/1/92.
- 12. 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph.D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

The terms, conditions, requirements, limitations and restrictions set of the in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

BEST AVAILABLE COPY

(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 103.73, F.S. Such evidence shall only be used to the extent it is consistent that 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;
 - 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 mpliance with the permit. If the permittee becomes aware the relevant facts to not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Win th

ROGER P. STEWART
EXECUTIVE DIRECTOR
ADMINISTRATIVE OFFICES
AND
WATER MAJAGEMENT DIVIDICAL
1900 - 9 TH AVENUE
TAMPA, FLORIDA 30GOS
TELEPHONE (813) 272-5960

AIR MANAGEMENT DIVISION TELEPHONE (813) 272-5520

WASTE MANAGEMENT DIVISANT TELEPHONE (813) 272-5788

ECOSYSTEMS MANAGEMENT DIVISION TELEPHONE (813) 272-7104

HECEIAED

FEB 10 1992

ENVIRONMENTAL

PLANNING

COMMISSION
PHYLLIS BUSANSKY
JOE CHILLURA
PAM IORIO
SYLVIA KIMBELL
JAN KAMINIS PLATT
JAMES D. SELVEY
EO TURANCHIK

FAX (813) 272-5157

February 6, 1992

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

t Office Box 111

PROTECTION

LIBOROUGH COUN

Re: Permit Renewal - Hooker's Point Unit Nos. 1, 2, 3, 4, 5, 6

Dear Mr. Robinson:

In accordance with our past procedures, the notification requirement in Specific Condition No. 11 of each operating permit does not have to be in writing. Notification by telephone fifteen (15) days in advance of compliance testing will satisfy the requirements of Specific Condition No. 11.

Please call me should you have any questions.

Sincerely,

. Darrel Graziani

Chief, Air Permitting Section

bm



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard . •

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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 33601-0111 DER File No.: A029-203000 County: Hillsborough

Enclosed is Permit Number A029-203000 to operate a 298 MMBTU/hr. steam generator designated as Unit #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 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;

Tampa Electric Company Tampa, FL 33601-0111

- Yf) 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.

Executed in Tampa, Florida

Sincerely,

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

JHK/SKW/bm

"

Attachment:

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

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 1 9 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.

Clerk DEC 1 9 1991



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-73

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

PERMITTEE:
Tampa Electric Company

Post Office Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION
Permit No: A029-203000
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point
Station Unit #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 a 298 MMBTU/hr. steam generator designated as Unit #2. This front firing type boiler was manufactured by Babcock and Wilcox Corporation and is fired on No. 6 fuel oil. The unit has no add on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit Nos. 1, 2, and 5 share the same stack exhaust (#5 stack), located on the west side of the building between stacks #2 and #4.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 02

Replaces Permit No.: A029-125686

PERMIT/CERTIFICATION NO.: A029-203000
PROJECT: Hooker's Point Station
Unit #2

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Except as provided in Specific Condition No. 5, the maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]
- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
- 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions* are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]

PERMIT/CERTIFICATION NO.: A029-203000

PROJECT: Hooker's Point Station

Unit #2

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
 - (X) Particulates**

(X) Sulfur Dioxide*

(X) Opacity**

*Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the density (lbs./gal.) and the sulfur content (% by weight).

** Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. A test under sootblowing conditions which demonstrates compliance with a non-sootblowing limitation will be accepted as proof of compliance with that non-sootblowing limitation.

7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (298 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test



BEST AVAILABLE COPY

PERMITTEE:
Tampa Electric Company

PERMIT/CERTIFICATION NO.: A029-203000

PROJECT: Hooker's Point Station

Unit #2

SPECIFIC CONDITIONS: (continued)

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.]

8. Compliance with the emission limitations of Specific Condition Nos.

"2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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. 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.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

- 10. Operation and Maintenance Plan. [Rule 17-2.650(2)(g), F.A.C.]
 - A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #2
 - 2) Design Fuel Consumption Rate: 43 barrels per hour
 - 3) Steam Flow: 220,000 pounds per hour
 - 4) Operating Temperature: 900° F.
 - 5) Operating Pressure: 960 psi
 - B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-203000

PROJECT: Hooker's Point Station

Unit #2

SPECIFIC CONDITIONS: (continued)

Daily

Check visible emissions
Sample fuel oil for monthly composite analysis
Maintain optimum flame pattern for efficient fuel combustion

Monthly

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- C. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]
- 11. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C]
- 12. 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph.D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

- The terms, conditions, requirements, limitations and restrictions set the 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.
- In this permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent that 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 ompliance with the permit. If the permittee becomes aware the relevant facts are not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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 33601-0111 DER File No.: A029-202999 County: Hillsborough

Enclosed is Permit Number A029-202999 to operate a 411 MMBTU/hr. steam generator designated as Unit #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 substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

- (f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Tampa, Florida

Sincerely,

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

JHK/SKW/bm

"

Attachment:

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

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 [SEC 1 9 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.

DEC 1 9 1991

nerez, delale...

/ Clerk



Florida Department of Environmental Regulation_

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-73

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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

PERMIT/CERTIFICATION
Permit No: A029-202999
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point
Station Unit #3

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 411 MMBTU/hr. steam generator designated as Unit #3. This front firing type boiler was manufactured by Babcock and Wilcox Corporation and is fired on No. 6 fuel oil. The unit has no add on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit Nos. 3 and 4 share the same stack exhaust (#2 stack), the southern most stack on the west side of the building.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 03

Replaces Permit No.: A029-125687

PERMIT/CERTIFICATION NO.: A029-202999

PROJECT: Hooker's Point Station

Unit #3

SPECIFIC CONDITIONS:

50

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

2. Except as provided in Specific Condition No. 5, the maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]

- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
- 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]

PERMIT/CERTIFICATION NO.: A029-202999
PROJECT: Hooker's Point Station

Unit #3

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
- (X) Particulates**

(X) Sulfur Dioxide*

- (X) Opacity*
- * Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the density (lbs./gal.) and the sulfur content (% by weight).
- ** Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. 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.
- 7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (411 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test

PERMIT/CERTIFICATION NO.: A029-202999

--

PROJECT: Hooker's Point Station

Unit #3

SPECIFIC CONDITIONS: (continued)

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.]

- 8. Compliance with the emission limitations of Specific Condition Nos. "2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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. 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.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

- 10. Operation and Maintenance Plan. [Rule 17-2.650(2)(g), F.A.C.]
 - A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #3
 - 2) Design Fuel Consumption Rate: 59.4 barrels per hour
 - 3) Steam Flow: 303,000 pounds per hour
 - 4) Operating Temperature: 900° F.
 - 5) Operating Pressure: 960 psi
 - B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-202999

PROJECT: Hooker's Point Station

Unit #3

SPECIFIC CONDITIONS: (continued)

<u>Daily</u>

Check visible emissions
Sample fuel oil for monthly composite analysis
Maintain optimum flame pattern for efficient fuel combustion

Monthly

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- C. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(q)5., F.A.C.]
- 11. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C]
- 12. 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph.D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- In 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 33.73, F.S. Such evidence shall only be used to the extent it is consisted 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

05/90

- 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 lime furnish any information required by law which is needed to determine impliance 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

813-623-5561

Carol M. Browner, Secretary

PERMITTEE:
Tampa Electric Company

Post Office Box 111
Tampa, FL 33601-0111

PERMIT/CERTIFICATION
Permit No: A029-202998
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point

Station Unit #4

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 411 MMBTU/hr. steam generator designated as Unit #4. This front firing type boiler was manufactured by Babcock and Wilcox Corporation and is fired on No. 6 fuel oil. The unit has no add-on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit Nos. 3 and 4 share the same stack exhaust (#2 stack), the southern most stack on the west side of the building.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 04

Replaces Permit No.: A029-125689

Page Three

Executed in Tampa, Florida

Sincerely,

Harry Kerns, P.E. District/Xir Engineer

JHK/SKW/bm

Attachment:

Environmental Protection Commission

of Hillsborough County

Mark J. Hornick, P.E., Tampa Electric Company

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 1 9 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.

- '(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.





Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-73

Carol M. Browner, Secretary

Lawton Chiles, Governor

813-623-5561

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 33601-0111 DER File No.: A029-202998 County: Hillsborough

Enclosed is Permit Number AO29-202998 to operate a 411 MMBTU/hr. steam generator designated as Unit #4, 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;

PERMIT/CERTIFICATION NO.: A029-202998
PROJECT: Hooker's Point Station
Unit #4

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Except as provided in Specific Condition No. 5, the maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]
- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
- 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]

PERMIT/CERTIFICATION NO.: A029-202998
PROJECT: Hooker's Point Station
Unit #4

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
- (X) Particulates**

(X) Sulfur Dioxide*

- (X) Opacity**
- * Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the densit (lbs./gal.) and the sulfur content (% by weight).
- ** Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. 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.
- 7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (411 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test

PERMIT/CERTIFICATION NO.: A029-202998

PROJECT: Hooker's Point Station

Unit #4

SPECIFIC CONDITIONS: (continued)

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.]

- 8. Compliance with the emission limitations of Specific Condition Nos. 2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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. 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.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

- 10. Operation and Maintenance Plan. [Rule 17-2.650(2)(g), F.A.C.]
 - A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #4
 - 2) Design Fuel Consumption Rate: 59.4 barrels per hour
 - 3) Steam Flow: 303,000 pounds per hour
 - 4) Operating Temperature: 900° F.
 - 5) Operating Pressure: 960 psi
 - B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-202998

PROJECT: Hooker's Point Station

Unit #4

SPECIFIC CONDITIONS: (continued)

Daily

Check visible emissions Sample fuel oil for monthly composite analysis Maintain optimum flame pattern for efficient fuel combustion

Monthly

r:

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

- C. Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be mad available to the Department or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]
- 11. The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C] See Omenoment dotted 2/6/92
- 12. 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

- The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
 - 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
 - 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
 - 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
 - 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
 - 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
 - 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.



Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 33.73, F.S. Such evidence shall only be used to the extent it is consistent that 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 apliance with the permit. If the permittee becomes aware the relevant facts are not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

RECEIVED

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

DEC 23 1991

DER File No.: A029-202997 County: Hillsborough

ERVIRONMENTAL PLANNING.

Enclosed is Permit Number A029-202997 to operate a 610 MMBTU/hr. steam generator designated as Unit #5, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

- '(f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

'Executed in Tampa, Florida

Sincerely,

. Harry Herns, P.E. District Air Engineer

JHK/SKW/bm

I!

Attachment:

cc: Environmental Protection Commission

of Hillsborough County

Mark J. Hornick, P.E., Tampa Electric Company

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 1 9 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.

DEC 1 9 1991
Date



Florida Department of Environmental Regulation

Southwest District •

4520 Oak Fair Boulevard

Tampa, Florida 33610-73

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

PERMITTEE: Tampa Electric Company Post Office Box 111 Tampa, FL 33601-0111 PERMIT/CERTIFICATION
Permit No: A029-202997
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point
Station Unit #5

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the department and made a part of hereof and specifically described as follows:

For the operation of a 610 MMBTU/hr. steam generator designated as Unit #5. This front firing type boiler was manufactured by Babcock and Wilcox Corporation and is fired on No. 6 fuel oil. The unit has no add-on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit Nos. 1, 2, and 5 share the same stack exhaust (#5 stack), located on the west side of the building between stacks #2 and #4.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 05

Replaces Permit No.: A029-125690

PERMIT/CERTIFICATION NO.: A029-202997

PROJECT: Hooker's Point Station

Unit #5

SPECIFIC CONDITIONS:

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

- 2. Except as provided in Specific Condition No. 5, the maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]
- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
- 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions* are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]

PERMIT/CERTIFICATION NO.: A029-202997 PROJECT: Hooker's Point Station

Unit #5

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
 - (X) Particulates**

(X) Sulfur Dioxide*

- (X) Opacity**
- * Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the density (lbs./gal.) and the sulfur content (% by weight).
- ** Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. 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.
- 7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (610 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test

PERMIT/CERTIFICATION NO.: A029-202997 PROJECT: Hooker's Point Station

Unit #5

SPECIFIC CONDITIONS: (continued)

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.]

- 8. Compliance with the emission limitations of Specific Condition Nos. 2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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. 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.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

- 10. Operation and Maintenance Plan. [Rule 17-2.650(2)(g), F.A.C.]
 - A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #5
 - 2) Design Fuel Consumption Rate: 86.2 barrels per hour
 - 3) Steam Flow: 440,000 pounds per hour
 - 4) Operating Temperature: 900° F.
 - 5) Operating Pressure: 975 psi
 - B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-202997 PROJECT: Hooker's Point Station

Unit #5

SPECIFIC CONDITIONS: (continued)

Daily

Check visible emissions Sample fuel oil for monthly composite analysis Maintain optimum flame pattern for efficient fuel combustion

Monthly

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary. Inspect burner tips and replace as necessary.

- Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be mad available to the Department or the Environmental Protection Commission of Hillsborough County upon request. [Rule 17-2.650(2)(g)5., F.A.C.]
- The Environmental Protection Commission of Hillsborough County shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a) 9. and 17-2.820(5), F.A.C] See Omenament down 2/4/82.
- 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph.D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 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

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
 - 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 an 33.73, 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 impliance with the permit. If the permittee becomes aware the relevant facts are not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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 33601-0111 DER File No.: A029-203002 County: Hillsborough

Enclosed is Permit Number A029-203002 to operate a 778 MMBTU/hr. steam generator designated as Unit #6, issued pursuant to Section 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

- (f) A statement of which rules or statutes petitioner contends required reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Tampa Electric Company
Tampa, FL 33601-0111

Executed in Tampa, Florida

Sincerely,

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

JHK/SKW/bm

Attachment:

cc: Environmental Protection Commission

of Hillsborough County

Mark J. -Hornick, P.E., Tampa Electric Company

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 19EC 1 9 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.

Clerk DEC 1 9 1991



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7

Lawton Chiles, Governor

813-623-5561

Carol M. Browner, Secretary

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

PERMIT/CERTIFICATION
Permit No: A029-203002
County: Hillsborough
Expiration Date: 12/01/96
Project: Hooker's Point
Station Unit #6

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the department and made a part of hereof and specifically described as follows:

For the operation of a 778 MMBTU/hr. steam generator designated as Unit #6. This tangential firing type boiler was manufactured by Combustion Engineering Corporation and is fired on No. 6 fuel oil. The unit has no add-on pollution control equipment. Air pollutant emissions are controlled by efficient combustion of the fuel. Unit No. 6 vents to stack #4, the northern most stack on the west side of the building.

Location: At the foot of Hemlock Street, Tampa

UTM: 17-358.0 E 3091.0 N NEDS NO: 0038 Point ID: 06

Replaces Permit No.: A029-125691

PERMIT/CERTIFICATION NO.: A029-203002 PROJECT: Hooker's Point Station Unit #6

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Except as provided in Specific Condition No. 5, the maximum allowable particulate matter emission rate from this source shall not exceed 0.1 pounds per MMBtu heat input over a two (2) hour average. [Rule 17-2.650(2)(c)2.b.(i), F.A.C.]
- 3. Except as provided in Specific Condition No. 5, visible emissions shall not exceed 20% opacity except for one two-minute period per hour during which opacity shall not exceed 40%. [Rules 17-2.650(2)(c)2.b.(ii) and 17-2.600(5)(a)1., F.A.C.]
 - 4. The maximum allowable sulfur dioxide emission rate from this source shall not exceed 1.1 pounds per MMBtu heat input. [Rule 17-2.600(5)(a)3.a.(v), 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 (sootblowing) and load change are permitted provided that the duration of such excess emissions shall not exceed 3 hours in any 24-hour period and visible emissions shall not exceed 60% opacity, and providing (a) best operational practices to minimize emissions are adhered to and (b) the duration of the excess emissions are minimized. Particulate matter emissions shall not exceed an average of 0.3 pounds per MMBtu heat input during the 3-hour period of excess emissions allowed by part B. of this specific condition. [Rule 17-2.250(3), F.A.C.]
- C. Excess emissions resulting from malfunctions* are permitted provided (a) best operational practices to minimize emissions are adhered to and (b) the duration of excess emissions are minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department of Environmental Regulation for longer duration. [Rule 17-2.250(1), F.A.C.]
- 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.]

PERMIT/CERTIFICATION NO.: A029-203002

PROJECT: Hooker's Point Station

Unit #6

SPECIFIC CONDITIONS: (continued)

*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. Test the emissions for the following pollutant(s) at intervals of 12 months from May 10, 1991 (± 90 days) and submit 2 copies of test data to the Air Section of the Environmental Protection Commission of Hillsborough County office and the Florida Department of Environmental Regulation within forty-five days of such testing. Testing procedures shall be consistent with the requirements of Rule 17-2.700, F.A.C.:
 - (X) Particulates**

(X) Sulfur Dioxide*

- (X) Opacity**
- * Compliance with the sulfur dioxide emission limits may be demonstrated by calculating SO₂ emissions based on the sulfur content of the fuel in lieu of stack sampling as provided in Rule 17-2.700, F.A.C. An analysis of the fuel oil shall be submitted with the stack test report. The analysis shall be in accordance with ASTM D4239-85 to determine sulfur content and contain as a minimum the Btu content (Btu/gal.), the density (lbs./gal.) and the sulfur content (% by weight).
- "Compliance with the particulate matter and opacity limits shall be demonstrated under both sootblowing and non-sootblowing operating conditions. 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.
- 7. Approved compliance testing of emissions must be conducted within ± 10% of the maximum permitted heat input rate (778 MMBtu/hr.), when practicable. Testing may be conducted at less than 90% of the maximum permitted heat input rate; however, if so, the maximum permitted heat input rate is automatically amended to be equal to the test heat input rate. If the maximum permitted heat input rate for this source is exceeded by more than 10%, compliance testing shall be performed within 60 days of initiation of the higher rate and the results of the tests shall be submitted to the Department of Environmental Regulation and the Environmental Protection Commission of Hillsborough County. The Environmental Protection Commission of Hillsborough County may, for good cause shown, grant an extension of the 60-day time limit on a case by case basis. Acceptance of said test will automatically amend the maximum permitted heat input rate to be equal to the test heat input rate. The actual heat input rate shall be specified in each test

PERMIT/CERTIFICATION NO.: A029-203002

PROJECT: Hooker's Point Station

Unit #6

SPECIFIC CONDITIONS: (continued)

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.]

- 8. Compliance with the emission limitations of Specific Condition Nos. 2, 3, 4 and 5B (sootblowing) shall be determined using EPA Methods contained in 40 CFR 60, Appendix A and adopted by reference in Rule 17-2.700, F.A.C. in accordance with Table 700-1 and DER Method 9 contained in Rule 17-2.700, F.A.C. The Method 9 observation period shall be at least 60 minutes and concurrent with one stack test run for sootblowing and non-sootblowing conditions. 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. 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.

Duplicate copies of all reports shall be submitted to the Environmental Protection Commission of Hillsborough County and the Florida Department of Environmental Regulation.

- 10. Operation and Maintenance Plan. [Rule 17-2.650(2)(g), F.A.C.]
 - A. Process System Performance Parameters:
 - 1) Source Designator: Hooker's Point Unit #6
 - 2) Design Fuel Consumption Rate: 126 barrels per hour
 - 3) Steam Flow: 625,000 pounds per hour
 - 4) Operating Temperature: 950° F.
 - 5) Operating Pressure: 1450 psi
 - B. The following observations, checks, and operations apply to this source while in operation and shall be conducted on the schedule specified:

Continuously Monitored and Recorded

Steam Flow Steam Temperature Steam Pressure Excess Air

PERMIT/CERTIFICATION NO.: A029-203002

PROJECT: Hooker's Point Station

Unit #6

SPECIFIC CONDITIONS: (continued)

Daily

Check visible emissions Sample fuel oil for monthly composite analysis Maintain optimum flame pattern for efficient fuel combustion

Monthly

Monitor and back calculate fuel input rate

During Major Outages

Inspect boiler, controls, auxiliaries, and ductwork and repair as necessary.

Prior to Startup

Inspect burners and clean as necessary.

Inspect burner tips and replace as necessary.

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

- shall be notified in writing 15 days in advance of any compliance test to be conducted on this source. [Rules 17-2.700(2)(a)9. and 17-2.820(5), F.A.C)
- 12. 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.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard Garrity, Ph.D.

Director of District Management

ATTACHMENT - GENERAL CONDITIONS:

- The terms, conditions, requirements, limitations and restrictions set with in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- 3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and

(c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and
 - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 3.73, F.S. Such evidence shall only be used to the extent it is consistent 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

The permittee shall comply with the following:

- 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.

Mhen requested by the Department, the permittee shall within a reasonable me furnish any information required by law which is needed to determine pliance with the permit. If the permittee becomes aware the relevant facts are not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION IV

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

RECEIVED

4APT-AEB

AUG - 3 1994

AUG 9

ENVIRGHEETAL Pixitalia

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 - Hookers Point. 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,

Acting/Chief

Source Evaluation and

Asbestos Section

Air, Pesticides and Toxics

Management Division

Enclosure

Preston Lewis, FDEP cc:

RESPONSE TO COMMENTS DOCUMENT

FOR

PUBLIC COMMENT PERIOD

FOR

Tampa Electric Company
Hookers Point Station

Phase I Acid Rain Permit

Docket/ORIS Code Number 0647

United States Environmental Protection Agency
Region IV
Atlanta, GA

Prepared on July 12, 1994

Prepared By: Kevin I. Taylor R. Scott Davis

PHASE I ACID RAIN PERMIT TAMPA ELECTRIC COMPANY HOOKERS POINT DOCKET/ORIS CODE NO. 0647:

During the comment period for the draft Phase I Acid Rain Permit for Tampa Electric Company-Hookers Point, the U.S. Environmental Protection Agency (EPA) received a number of comments from individuals and organizations wishing to modify or change the permit. This document responds to and summarizes these comments and identifies the changes, if any, that have resulted in the permit.

I. Reduced Utilization and Substitution Plans

Section 1: Proposed Deferred Approval of 1996 through 1999 Compliance Plans.

Comment 1.1: Support proposed decision to not approve substitution and reduced utilization (with compensating units) plans for 1996-1999 period until regulations revised in a manner that is consistent with the Act. Additionally, the approval of these plans would result in a significant increase in allowable emissions.

Commenter(s): Natural Resources Defense Council (NRDC) et al.*

Response:

Consistent with the Partial Settlement Agreement in Environmental Defense Fund v. Carol M. Browner, No. 93-1203 (D.C. Cir. 1993) (signed May 4 and 20, 1994), EPA is not deferring action for any years on any substitution or reduced utilization plans or portions of plans and is approving (or disapproving) the plans and allocating allowances under certain conditions. See Statement of Basis in the final permit. The settlement reasonably resolves the issue of excess, new allowances. Because EPA is not deferring action on any plans or portions of plans, comments objecting to deferral of action are moot.

Comment 1.2: The EPA cannot defer action on compliance plans for the years 1996 through 1999.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.3: The compliance plans submitted fully comply with the regulations in effect and therefore must be approved for the full five-year period.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.4: The EPA has a binding duty under the Act,

> including section 408(c)(2) of the Act, to approve or disapprove a compliance plan within six months after a complete submission and to issue permits for a five-year period. This does not allow for a deferral of final action for years 1996 through

1999.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

Comment 1.5: The existing regulations, including 40 CFR

72.62(a), do not allow for a deferral of final

action.

Commenter(s): Tampa Electric Company

Response: See Comment 1.1.

For any possible future changes to the Acid Rain Comment 1.6:

rules, the revised rules would apply only

prospectively to those plans submitted after the

promulgation date of revised rules.

Commenter(s): Tampa Electric Company

See Comment 1.1. Response:

Section 2: One Year Compliance Plan Approval

Comment 2.1: Blanket approval of substitution and reduced

> utilization plans for 1995 will result in excess allowances, significantly greater SO2 emissions,

and, ultimately, nonattainment of Phase I reductions mandated under the Act. Therefore, approval of plans for one year requires EPA to

first acquire, and make available to the public, preapplication emission rates for substitution and

compensating units, and adopted State/local

emission rates that are applicable to such units

now or in Phase I. Second, based on that

information, EPA must conduct a substantive review of each application to assure excess allowances

are not issued.

Commenter(s): Natural Resources Defense Council (NRDC) et al.*

Response: See Comment 1.1. Comment 2.2: Before grandfathering any compliance plan for the one year (1995) period that could result in granting excess allowances, EPA must access for the individual plans the reliance of, and the burdens on, the owner and operator. Only if the reliance and burden factors are significant can EPA grandfather a compliance plan for the one year period.

Commenter(s): Natural Resources Defense Council (NRDC) et al.

Response: See Comment 1.1.

Commenters represented by the NRDC submission include, Wasatch Clean Air Coalition, Southern Environmental Law Center, New Jersey Environmental Lobby, Sierra Club-Utah Chapter, Sierra Club, Kentucky Resources Council, A W Butler Audubon Society, Environmental Defense Fund, Audubon Society of New Hampshire, Appalachian Mountain Club, Wyoming Outdoor Council, Sierra Club-PA Chapter, Ohio Environmental Council, Campaign for Prosperous Georgia, and American Lung Association of New Jersey.

FOR FURTHER INFORMATION CONTACT: Contact the following persons for more information about a permit listed in this notice:

For plants in New York, Gerry DeGaetano, (212) 264-6685, EPA Region 2.

For plants in Florida and Kentucky, Scott Davis, (404) 347-5014, EPA Region 4 (address above).

For plants in Missouri, Jon Knodel, (913) 551-7622, EPA Region 7. SUPPLEMENTARY INFORMATION: Title IV of the Clean Air Act directs EPA to establish a program to reduce the adverse effects of acidic deposition by promulgating rules and issuing permits to emission sources subject to the program. On January 11, 1993, EPA promulgated final rules implementing the program. Subsequently, several parties filed petitions for review of the rules with the U.S. Court of Appeals for the District of Columbia Circuit. On November 18, 1993, EPA published a notice of proposed revisions to rules regarding Phase I substitution and reduced utilization plans [sections 404 (b) and (c) and 408(c)(1)(B) of the Act). On May 4, 1994, EPA and other parties signed a settlement agreement addressing the substitution and reduced utilization issues.

In today's action, EPA is issuing permits that are consistent with the May 4, 1994 settlement. Except as noted below, EPA approves for 1995-1999 all compliance options for which EPA deferred action for 1996-1999 in the draft permits. In addition, except as noted below, the numbers of substitution and compensating unit allowances allocated to each unit for 1995-1999 are identical to the numbers. of allowances allocated to each unit for 1995 in the draft permits. The additional allowances discussed below are a one-time only allocation pursuant to the settlement. Upon activation of conditionally-approved plans. substitution or compensating unit allowances are allocated for the remaining years the plan is in effect. EPA issues the following permits:

Northport in New York. Port Jefferson in New York. Big Bend in Florida.

F J Gannon in Florida: No change for unit GB01; 4,581 substitution allowances for each year and 9 additional allowances to unit GB02 upon activation of substitution plan; 7,003 substitution allowances for each year and 437 additional allowances to unit GB03 upon activation of substitution plan; 7,570 substitution allowances for each year and 450 additional allowances to unit GB04

upon activation of substitution plan; 10,295 substitution allowances for each year and 520 additional allowances to unit GB05 upon activation of substitution plan; 16,107 substitution allowances for each year and 377 additional allowances to unit GB06 upon activation of substitution plan.

Hookers Point in Florida: 0 substitution allowances for each year and 27 additional allowances to unit HB01 upon activation of substitution plan; 31 substitution allowances for each year and 3 additional allowances to unit HB02 upon activation of substitution plan; 92 substitution allowances for each year and 9 additional allowances to unit HB03 upon activation of substitution plan; 145 substitution allowances for each year and 15 additional allowances to unit HB04 upon activation of substitution plan; 124 substitution allowances for each year and 13 additional allowances to unit HB05 upon activation of substitution plan; 207 substitution allowances for each year and 13 additional allowances to unit HB06 upon activation of substitution plan.

Big Sandy in Kentucky. Coleman in Kentucky. Cooper in Kentucky.

Dale in Kentucky: 2,115 substitution allowances for each year and 226 additional allowances to unit 3 upon activation of substitution plan, and 226 additional allowances if the unit becomes affected for NO_x; 1,729 substitution allowances for each year and 166 additional allowances to unit 4 upon activation of substitution plan, and 166 additional allowances if the unit becomes affected for NO_x.

East Bend in Kentucky.

H L Spurlock in Kentucky: 14,206 substitution allowances for each year and 1,593 additional allowances to unit 2 upon activation of substitution plan, and 1,593 additional allowances if the unit becomes affected for NO_x.

R D Green in Kentucky: No change for unit G1; 5,827 substitution allowances for each year and 492 additional allowances to unit G2.

Sibley in Missouri: 2,782 substitution allowances for each year and 28 additional allowances to unit 1; 3,332 substitution allowances for each year and 130 additional allowances to unit 2.

Dated: July 14, 1994. Brian J. McLean.

Director, Acid Rain Division, Office of Atmospheric Programs, Office of Air and Radiation.

[FR Doc_94-18323 Filed 7-27-94; 8:45 am] BILLING CODE 6560-60-P

[FRL-5021-5]

Restatement of Policies Related to Environmental Auditing

AGENCY: Environmental Protection _ Agency (EPA). ACTION: Notice.

SUMMARY: The EPA Environmental Auditing Policy Statement ("1986 Policy") was originally published in the Federal Register on July 9, 1986 (51 FR 25004). The 1986 Policy states that "(c)larification of EPA's position regarding auditing may help encourage regulated entities to establish audit programs or upgrade systems already in place." The goal of this notice is to clarify EPA's current policies on and approach to auditing. This notice summarizes salient points from the 1986 Policy, which remains in effect. In addition, this notice updates the Agency's activities with respect to auditing and auditing policy and references pertinent language from other relevant policy documents, in anticipation of the public meeting on auditing scheduled for July 27-28, 1994. This notice does not represent a new EPA policy or position on environmental auditing; all existing policies remain in effect.

I. Auditing Public Meeting: Change of Location

The response to EPA's announcement (59 FR 31914, June 20, 1994) to hold a public meeting on auditing on July 27—28, 1994 has been overwhelming. Due to the expected size of the audience, therefore, the Agency has changed the location of this event. The new location is the Stouffer Mayflower Hotel in Washington, DC, at 1127 Connecticut Avenue, NW, Phone (202) 347—3000.

II. The Auditing Policy Reassessment

In response to a request by Administrator Carol M. Browner, the Office of Enforcement and Compliance Assurance (OECA) is reassessing the Agency's current policy regarding environmental auditing and selfevaluation by the regulated community. EPA has committed to investigating the perceived problems relating to auditing. self-evaluation, and disclosure through an empirical_information-gathering effort. The Agency must develop an adequate information base to give serious consideration to any policy options and to ensure that any decision to either reinforce, change, or supplement existing policy is informed by fact.

EPA hopes to collect such relevant data through the implementation of four actions this summer. First, the Agency Angeles, Houston, New York City, Beltimore, Chicago, San Diego, Philadelphia, Hartford and Milwaukee. Under section 211(k)(10)(D), any area reclassified as a severe ozone nonettainment area under section 181(b) is also to be included in the reformulated gasoline program.

Any other ozone nonattainment area may be included in the program at the request of the governor of the state in which the area is located. Section. 211(k)(6)(A) provides that upon the application of a Governor, EPA shall apply the prohibition against selling conventional gasoline (gasoline EPA has not certified as reformulated) in any area requested by the Governor which has been classified under subpart 2 of part D of title I of the Act as a Marginal, Moderate, Serious or Severe ozone nonattainment area.! Subparagraph 211(k)(6)(A) further provides that EPA is to apply the prohibition as of the date the Administrator "deems appropriate, not later than January 1, 1995, or 1 year after such application is received, whichever is later." In some cases the effective date may be extended for such an area as provided in section 211(k)(6)(B) based on a determination by EPA that there is "insufficient domestic capacity to produce" reformulated gasoline. Finally, EPA is to publish a governor's application in the Federal Register. To date, EPA has received and published applications from the Mayor of the District of Columbia and the Governors of Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, and Texas. Although Vermont has requested to opt-in to the program, states without ozone nonattainment" ereas, such as Vermont, can not do so.

EPA published final regulations for the reformulated gasoline program on February 16, 1994 (59 FR 7716).

IL. The Governor's Request

Hon, 3 ereton C. Jones, Governor of the State of Kentucky, for the Kentucky portions of the Louisville and the Cincinnati-Hamilton ozone non-attainment areas to be included in the reformulated gasoline program. His application is set out in full below.

[State of Kentucky letterhead]

September 19, 1993.

Ms. Carol Browner, Administrator, U.S. Environmental Protection Agency, 401 Ms Street, SW., Washington, DC 20460 Dear Ms. Browner: In accordance with Section 211(k), (6)(A) of the Federal Clean Air Act, I request that, beginning January 1, 1995, the prohibition applying to the sale of conventional gasoline be extended to the Kentucky portion of the Louisville ozone non-attainment area and the Kentucky portion of the Cincinnati-Hamilton ozone non-attainment area. The Kentucky portion of the Louisville non-attainment area consists of Jefferson County and a portion of Bullitt and Oldham Counties. The Kentucky portion of the Cincinnati ozone non-attainment area consists of Boone, Campbell and Kenton Counties.

The Kentucky Natural Resources and Environmental Protection Cabinet recommended that I apply to you to require the use of reformulated gasoline in these counties in order to help achieve the reduction of volatile organic compounds mandated in Section 182(b)(1) of the Clean Air Act. The revision to Kentucky's State Implementation Plan for achieving a 15% reduction of volatile organic compounds due by November 15, 1993 will include emission reductions gained by the use of reformulated gasoline.

Sincerely, Brereton C. Jones.

III. Action

Pursuant to the governor's letter and the provisions of section 211(k)(6), the prohibitions of subsection 211(k)(5) will be applied to the Kentucky portions of the Louisville and Cincinnati-Hamilton ozone non-attainment areas beginning January 1, 1995 (unless delayed, as provided above). The Kentucky portion of the Louisville non-attainment area consists of Jefferson County and a portion of Bullitt and Oldham Counties. The Kentucky portion of the Cincinnati ozone non-attainment area consists of Boone, Campbell and Kenton Counties. These ozone nonattainment areas are classified as moderate.2

Based on the governor's application, EPA's final rule for reformulated gasoline included these areas as covered area (40 CFR 80.70(j)).

The application of the prohibitions to the Kentucky portions of the Louisville and Cincinnati-Hamilton areas cannot take effect any earlier than January 1, 1995 under section 211(k)(5) and cannot take effect any later than January 1, 1995, under section 211(k)(6)(A), unless the Administrator extends the effective date by rule under section 211(k)(6)(B).

Dated: July 15, 1994. Carol M. Browner,

Administrator.

[FR Doc. 94–18388 Filed 7–27–94; 8:45 am]

[FRL-5021-1]

Acid Rain Program: Notice of Final Permits

AGENCY: Environmental Protection Agency (EPA).
ACTION: Notice of permits:

SUMMARY: The U.S. Environmental Protection Agency (EPA) is issuing, as a direct final action, 5-year Phase I Acid Rain Permits to 13 utility plants in accordance with the Acid Rain Program regulations (40 CFR part 72). DATES: The permits will become final on September 6, 1994, except those permits on which EPA receives significant adverse comment by August 29, 1994. If EPA receives significant adverse comment on a permit, EPA will withdraw the direct final issuance of that permit and simultaneously repropose the permit. Such reproposal will provide an opportunity for public comment and requests for a public hearing. ADDRESSES: Administrative Records. The administrative record for the permits, except information protected as confidential, may be viewed during normal operating hours at these locations:

For plants in New York: EPA Region 2, Jacob K. Javits Federal Bldg., 26 Federal Plaza, Room 505, New York, NY 10278.

For plants in Florida and Kentucky: EPA Region 4, 345 Courtland St., NE., Atlanta, GA 30365.

For plants in Missouri: EPA Region 7, 726 Minnesota Ave., Kansas City, KS 66101.

Comments. Send comments to the following addresses:

For plants in New York: EPA Region 2, Air and Waste Management Division, Attn: Steven C. Riva (address above)

For plants in Florida and Kentucky: EPA Region 4, Air, Pesticides, and Toxics Management Division, Attn. Winston Smith, Director (address above).

For plants in Missouri: EPA Region 7, Air and Toxics Division, Attn: Jon Knodel (address above).

Submit comments in duplicate and identify the permit to which the comments apply, the commenter's name, address, and telephone number, and the commenter's interest in the matter and affiliation, if any, to the owners and operators of all units in the permit. In the comment, include objections to the permit and the legal, factual, or other basis for the objections. This information will be used by EPA to determine if the comment is a significant adverse comment.

EPA promulgated such designations pursuant to section 107(d)(4) of the Act (56 FR 56694; November 6, 1994).

² See 56 FR 56764, 54765 (November 6, 1991).

APPENDIX E
POLLUTANT CODES

POLLUTANT CODES

Units 1 through 6

Pollutant	FDEP Code	ELSA No.
Sulfur Dioxide	SO2	1
Particulate Matter	PM	2