

GANNON STATION

TITLE V OPERATING PERMIT APPLICATION

VOLUME I

JUNE 1996

REVISED FEBRUARY 1997

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INTRODUCTION

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

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

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

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 F.J. Gannon Station Port Sutton Road, Tampa, Hillsborough County, Florida Existing, Permitted Facility

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Douglas H. Finke General Manager, F.J. Gannon Stn.

2. Owner/Authorized Representative or Responsible Official Mailing Address:

Organization/Firm:

Tampa Electric Company

Street Address:

P.O. Box 111

City:

Tampa

State: FL

Zip Code: **33601-0111**

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:

Telephone: (813) 641-5400

Fax: (813) 641-5418

4. Owner/Authorized Representative or Responsible Official Statement:

I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.

Ocula H. Finle

2-18-97

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

Scope of Application

Emissions Unit ID	Description of Emissions Unit
001	Unit No. 1 - Solid Fuel-Fired Steam Generator
002	Unit No. 2 - Solid Fuel-Fired Steam Generator
003	Unit No. 3 - Solid Fuel-Fired Steam Generator
004	Unit No. 4 - Solid Fuel-Fired Steam Generator
005	Unit No. 5 - Solid Fuel-Fired Steam Generator
006	Unit No. 6 - Solid Fuel-Fired Steam Generator
007	Combustion Turbine 1
•	T

Scope of Application

Emissions Unit ID	Description of Emissions Unit
008	Solid Fuel Bunkers (all solid fuel-fired units)
009	Solid Fuel Handling and Storage Sources (all sources)
010	Units 1-4 Flyash Silo (Fly Ash Silo No. 2)
011	Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)
012	Unit 4 Economizer Fly Ash Silo
013	Flyash Handling and Storage Sources (Fugitive Emissions)
014	Other Material Handling Sources

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.
Th	is 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
Th	is 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 EP 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 : 3. Projected Date of Completion 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

4. Professional Engineer Statement:

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

- (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
- (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

Signature Date

* Attach any exception to certification statement.

- 4. Professional Engineer Statement:
 - I, the undersigned, hereby certify, except as particularly noted herein*, that:
 - (1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and
 - (2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

Signature Date

* Attach any exception to certification statement.

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

Application Contact

1. Name and Title of Application Contact:

Name: Janice Taylor
Title: Senior Engineer

2. Application Contact Mailing Address:

Organization/Firm: Tampa Electric Company Street Address: 6499 U.S. Highway 41 North

City: Apollo Beach

State: FL

Zip Code: 33572-9200

3. Application Contact Telephone Numbers:

Telephone: (813)641-5039

Fax: (813)641-5081

Application Comment

Initial operating permit application for the Tampa Electric Company F.J. Gannon Station

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Name, Location, and Type

I. Facility Owner or Operator : Tampa Electric Company					
2. Facility Name: F.J.	Gannon Station				
3. Facility Identification	Number: 0570040				
4. Facility Location Infor	mation :				
Tampa Electric Compa Port Sutton Road, Tam Existing, Permitted Fac	pa, Hillsborough County, Fl	lorida			
Facility Street Addres					
	ty: Tampa ty: Hillsborough	Zip Code :			
5. Facility UTM Coordinate	ates :				
Zone: 17	Zone: 17 East (km): 360.00 North (km): 3087.50				
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 :					
NA .					

Facility Contact

1	Name	and	Title	Ωf	Facility	Contact	
Ι.	Name	allu	1100	vı	I acility	Contact	

Name: Cindy Barringer

Title: Environmental Coordinator

2. Facility Contact Mailing Address:

Organization/Firm: Tampa Electric Company

Street Address: Port Sutton Road

City: Tampa

State: FL

Zip Code: 33619-____

3. Facility Contact Telephone Numbers:

Telephone: (813)641-5497

Fax: (813)641-5566

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 :	
NA	

B. FACILITY REGULATIONS

Rule Ar	plicability	/ Analy	sis
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Not applicable	

B. FACILITY REGULATIONS

List of Applicable Regulations

See Appendix A

C. FACILITY POLLUTANT INFORMATION

<u>Fa</u>	cility 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 - SO2, NOX, PM, PM10, CO, VOC, HAP	PS, H106 (HCl), H107 (HF), SA	M
	SM - None		
	B - None		

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. 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 :	II.D.5	
6. Supplemental Information for Construction Permit Application :	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:	II.D.8
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions Trading):	NA
11. Enhanced Monitoring Plan :	II,D.11
12. Risk Management Plan Verification :	II.D.12
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 - Solid Fuel-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	n:				
Unit No. 1 - Solid Fuel-Fired Stea	nm Generator	,				
2. ARMS Identification Number	: 001					
3. Emissions Unit Status Code :	4. Acid Rain Unit?		missions Unit Major p SIC Code :			
A)	7	49			
6. Initial Startup Date :		·				
7. Long-term Reserve Shutdow	7. Long-term Reserve Shutdown Date :					
8. Package Unit :						
Manufacturer : Model Number :						
9. Generator Nameplate Rating	: 125 MW					
10. Incinerator Information :						
	nperature :	°F .				
Incinerator Afterburner Te	well Time : mperature :	seconds °F				
11. Emissions Unit Comment :						

- a) Babcock & Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).
- b) No. 2 fuel oil used for ignition during start-up.
- c) Unit may be fired with coal, coal/petroleum coke blend, coal/tire-derived fuel (TDF) blend, or coal/petroleum coke/TDF blend, with some paper pellets and yard clippings.

- d) Fluxing agent may be added to fuel.
- e) Solid fuel may be supplemented with up to 48 gal/min used oil, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 1 is a "regulated" emissions unit.

Emissions Unit Information Section	1	
Emissions Unit Control Equipment	1	
1. Description :		
Electrostatic Precipitator System		
2. Control Device or Method Code :	10	

Emissions Unit Information Section	1	
Unit No. 1 - Solid Fuel-Fired Steam Generator		
Emissions Unit Operating Capacity		
1. Maximum Heat Input Rate :	1257 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 fuel heat input rate is 1,257 MM	Btu/hour on a monthly avera	ge basis.

Emissions Unit Information Section	1
Unit No. 1 - Solid Fuel-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 Section1_	
Unit No. 1 - Solid Fuel-Fired Steam Generator	•
Rule Applicability Analysis	
Not applicable	9

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	1

Unit No. 1 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section	
Unit No. 1 - Solid Fuel-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 : 1				_
3.	Descriptions of Emission Points Comprising this Emis	sions Unit :			
	Unit No. 1 - Solid Fuel-Fired Steam Generator				
4.	ID Numbers or Descriptions of Emission Units with this Emission Point in Common :				
	Not applicable				
5.	Discharge Type Code :	V			_
6.	Stack Height :	315	feet		
7.	Exit Diameter :	10.0	feet		
8.	Exit Temperature :	276	°F		
9.	Actual Volumetric Flow Rate :	478137	acfm	ı	_
10	. Percent Water Vapor :		%	٥	
11	Maximum Dry Standard Flow Rate :		dscfr	n .	
12	Nonstack Emission Point Height :	_	feet		_
13	Emission Point UTM Coordinates :				_
	Zone: 17 East (km): 360.000	North (km	1):	3087.500	
14	. Emission Point Comment :				_
		•			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1	
Unit No. 1 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate: Segment 1	
1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode):	
Coal, petroleum coke/coal blend, TDF/coal blend, and coal/petroleum coke/TDF-blend-burned, with some paper pellets and yard clippings.	
2. Source Classification Code (SCC): 1-01-002-03	
3. SCC Units: Tons Burned (all solid fuels)	
	,
4. Maximum Hourly Rate: 50.00	5. Maximum Annual Rate: 438,000.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90
9. Million Btu per SCC Unit: 25	
10. Segment Comment :	:
a. No. 2 fuel oil used for ignition during startup (See Segment 2).	
b. Fluxing agents may be added to fuel.	
c. Solid fuel blend firing may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids (i.e., oil absorbant, oily soil, etc.).	
d. Up to 50 gal/min of nonhazardous boiler cleaning waste water may be injected into boiler during	
firing as a routine maintenance procedure. e. Maximum hourly rate (Field 4), Maximum annual rate (Field 5), and Btu/SCC unit value (Field 9)	

III. Part 8 - 1

based on average fuel heat content of 12,570 Btu/lb.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1					
Unit No. 1 - Solid Fuel-Fired Steam Generator					
Segment Description and Rate: Segment 2					
Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :					
Distillate (No. 2) fuel oil burned in Unit 1 for startup.					
2. Source Classification Code (SCC): 1-01-005-01					
3. SCC Units: Thousand Gallons Burned (all liquid fuels)					
4. Maximum Hourly Rate: 1.08 5. Maximum Annual Rate: 1,101.60					
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. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc.					
Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.					
Maximum annual rate (Field 5) is estimated based on past practice.					

III. Part 8 - 3

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E. POLLUTANT INFORMATION

Emissions Unit Information Section	1			
Unit No. 1 - Solid Fuel-Fired Steam Generator	`			
Pollutant Potential/Estimated Emissions	s: Pollutan	t <u>1</u>		
1. Pollutant Emitted :	SO2	٠	-	
2. Total Percent Efficiency of Control:	0.00	6		
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions : 3,016.80	lb/hour	13,213.60	tons/year	
6. Synthetically Limited? N				
7. Range of Estimated Fugitive/Other En	nissions:	to		tons/year
8. Emissions Factor: 2.40 Units: lb/MMBtu Reference: Allowable Emissions	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 Emission unit pollutant regulatory codes EL - SO2, PM WP - None				ı.

NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

Emissions Unit Information Section1				
Pollutant Information Section1 Allowable Emissions1				
1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units : 2.40 lb/MMBtu				
4. Equivalent Allowable Emissions :				
3,016.80 lb/hour 13,213.60 tons/year				
5. Method of Compliance :				
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Requested allowable emission represents a weekly average emission, per Specific Condition No. 4 of Permit A029-204434 FDEP Rule 62-296.405(1)(c)2.a., F.A.C.				

Emissions Unit Information Section 1
Pollutant Information Section1_
Allowable Emissions 2
1. Basis for Allowable Emissions Code : RULE
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units: 10.60 tons/hr
4. Equivalent Allowable Emissions :
21,220.00 lb/hour 92,856.00 tons/year
5. Method of Compliance :
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
Hourly rate represents weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-204434. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.

E. POLLUTANT INFORMATION

Em	issions Unit Information Section	1				
Uni	t No. 1 - Solid Fuel-Fired Steam Generator					
Pol	lutant Potential/Estimated Emissions	<u>:</u> F	Pollutant	2		
1.	Pollutant Emitted :	PM				
2.	Total Percent Efficiency of Control :	99.09	%	1		
3.	Primary Control Device Code :	010				
4.	Secondary Control Device Code :					
5.	Potential Emissions : 377.10	lb/hou	r	688.20	tons/year	
6.	Synthetically Limited? N					
7.	Range of Estimated Fugitive/Other Em	issions	:	to		tons/year
8.	Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable emissi	ion	,	,		
9.	Emissions Method Code :					
10	Calculations of Emissions :					
	See Appendix C					
11	Pollutant Potential/Estimated Emission	ns Con	nment :			
	Emission factor of 0.3 lb/MMBtu applicable during soot blowing. Emission factor during non-soot blowing is 0.1 lb/MMBtu. Annual PM emission rate is based on 3 hr/day soot blowing and 21 hr/day non-soot blowing.					

Em	Emissions Unit Information Section1				
Ро	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: 0.30 lb/MMBtu				
4.	Equivalent Allowable Emissions :				
	377.10 lb/hour 688.20 tons/year				
5.	Method of Compliance :				
	Annual testing using EPA Reference Method 5, 5B, or 17. Option to use three soot-blowing runs to demonstrate compliance with non-soot blowing standard is requested.				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):				
	0.3 lb/MMBtu applicable during soot blowing (3 hrs/day), per Specific Condition No. 5, Permit AO29-204434 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2, Permit				
	AO29-204434 FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C.				

Emissions Unit Information Section1_					
<u>Vis</u>	<u>Visible Emissions Limitation</u> : 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 :				
	Continuous Emission Monitoring				
5.	Visible Emissions Comment :				
	FDEP Rule 62-296.405(1)(a), F.A.C.				

Emissions Unit Information Section1_				
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation2_				
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 :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Maximum period of excess opacity allowed for 3 hours in any 24-hour period.				
FDEP Rule 62-210.700 (3), F.A.C.				

Emissions Unit Information Section 1			
Visible Emissions Limitation :	Visible Emission	se Limi	tation 3
VISIBLE LIMISSIONS LIMITATION .	Visible Elliission	19 111111	<u> </u>
Visible Emissions Subtype:	VES		
Basis for Allowable Opacity:	RULE	·	
Requested Allowable Opacity:			
, , , , , ,			
	rmal Conditions :		%
•	onal Conditions :	100	%
Maximum Period of Excess	Opacity Allowed:	24	min/hour
4. Method of Compliance :			
Continuous Emission Monitoring			
5. Visible Emissions Comment :			
Excess emissions resulting from bo Maximum period of excess opacity FDEP Rule 62-210.700(3), F.A.C.	allowed is 4 six-min	_	

Emissions Unit information Section					
Visible Emissions Limitation : Visible En	Visible Emissions Limitation: Visible Emissions Limitation 4				
1. Visible Emissions Subtype : VES					
2. Basis for Allowable Opacity: RULE					
3. Requested Allowable Opacity :	·				
Normal Conditi					
Exceptional Condit					
Maximum Period of Excess Opacity Alle	owed: 60 min/hour				
4. Method of Compliance :					
Continuous Emission Monitoring					
5. Visible Emissions Comment :	·				
Excess emissions resulting from boiler startup a FEDP Rule 62-210.700(2), F.A.C.	ad shutdown.				

Emissions Unit Information Section 1				
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation5_				
1. Visible Emissions Subtype : VE				
•				
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 :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Excess emission resulting from startup, shutdown, or malfunction.				
Maximum period of excess emission allowed is 2 hours in any 24-hour period. FDEP Rule 62-210.700(1), F.A.C.				

En	Emissions Unit Information SectionI				
Un	Unit No. 1 - Solid Fuel-Fired Steam Generator				
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 1			
1.	Parameter Code :	VE			
2.	CMS Requirement :	RULE			
3.	Monitor Information :	- -			
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation M400 400B-3400-0009			
4.	Installation Date :	01-Oct-1985			
5.	Performance Specification	on Test Date :			
6.	Continuous Monitor Com	ment:			
	Required per 40 CFR Part System includes one opacity	75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. y monitor.			

Em	Emissions Unit Information Section 1						
Uni	Unit No. 1 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 2					
1.	Parameter Code :	SO2					
2.	CMS Requirement :	RULE					
3.	Monitor Information :	, <u>-</u>					
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48234-280					
4.	Installation Date :	01-Jul-1994					
5.	5. Performance Specification Test Date :						
6.	Continuous Monitor Com	ment :					
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. System includes one SO2 monitor, with one backup system shared among Emission Units 1, 2, and 3.						

Em	Emissions Unit Information Section1					
Unit No. 1 - Solid Fuel-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-47869-279				
4.	Installation Date :	01-Jul-1994				
5.	5. Performance Specification Test Date :					
6.	Continuous Monitor Com	ment :				
	Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 1, 2, and 3.					

Em	Emissions Unit Information Section l						
Un	Unit No. 1 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	tem :	Continuous Monitor	4			
1.	Parameter Code :	FLOW					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	USI 100 9401630					
4.	Installation Date :		01-Jul-1994				
5.	Performance Specification	n Test Da	ate :				
6.	Continuous Monitor Com	ment :					
	Required per 40 CFR Part 7 System includes one flow m						

Em	Emissions Unit Information Section1						
Un	Unit No. 1 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem :	Continuous Monitor5				
1.	Parameter Code :	CO2					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Siemens 5E E2-756					
4.	Installation Date:		01-Jul-1994				
5.	Performance Specification	on Test Da	ite:				
6.	Continuous Monitor Com	ment :					
	Required per 40 CFR Part 7 System includes one CO2 m		h one backup system shared among Er	mission Units 1, 2, and 3.			

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

E	missions Unit Information Section1_
U	nit No. 1 - Solid Fuel-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	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. 1 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: 377,1000 lb/hour 688.2000 tons/year SO2: 3016.8000 lb/hour 13213.6000 tons/year NO2: 8506.2000 tons/year 5. PSD Comment: Emission unit is part of baseline PSD emission inventory. Hourly emission rates are daily 3-hour averages.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section1	
Unit No. 1 - Solid Fuel-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 :	III.I.3
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 :	Appendix A
Additional Supplemental Requirements for Category I Applications	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

13.	Identification	of Additional	Applicable	Requirements:

Appendix A

14. Acid Rain Application (Hard-copy Required):

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

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 2
Unit	No. 2 - Solid Fuel-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 Emission	1. Description of Emissions Unit Addressed in This Section :							
Unit No. 2 - Solid Fuel-F	Fired Stea	m Generator						
2. ARMS Identification N	Number	: 002			· · · · · · · · · · · · · · · · · · ·			
3. Emissions Unit Status Code :	S	4. Acid Rair	Unit?		5. Emissions Unit Major Group SIC Code :			
	Α			Y		49		
6. Initial Startup Date :								
7. Long-term Reserve S	hutdow	n Date :		_				
8. Package Unit :								
Manufacturer:								
Model Number :								
9. Generator Nameplate	Rating	: 1	25 MW					
10. Incinerator Information :								
D	Dwell Temperature : °F							
		well Time :		seco	onds			
Incinerator Afterbu	ırner Te	mperature :		°F				
			_					

11. Emissions Unit Comment:

- a) Babcock & Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).
- b) No. 2 fuel oil used for ignition during start-up.
- c) Unit may be fired with coal, coal/petroleum coke blend, coal/TDF blend, or coal/petroleum coke/TDF blend, with some paper pellets and yard clippings.

- d) Fluxing agent may be added to fuel.
- e) Solid fuel may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 2 is a "regulated" emissions unit.

Emissions Unit Information Section	2
Emissions Unit Control Equipment	1
1. Description :	
Electrostatic Precipitator System	
2. Control Device or Method Code :	10

Emissions Unit Information Section	2	
Unit No. 2 - Solid Fuel-Fired Steam Generator	٠.	
Emissions Unit Operating Capacity		
1. Maximum Heat Input Rate :	1257 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 :	1	
Maximum fuel heat input rate is 1,257 MMBtu	/hr on a monthly average basis.	

Emissions Unit Information Section	2

Unit No. 2 - Solid Fuel-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	2
Unit No. 2 - Solid Fuel-Fired Steam Generator	r '
Rule Applicability Analysis	
Not applicable	

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Sci	Section 2	2
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Unit No. 2 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section	2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Fl	low Diagram :	CS-002		
2.	Emission Point Type Code :	1			
3.	Descriptions of Emission Points Compr	rising this Emission	ons Un it :		
	Unit No. 2 - Solid Fuel-Fired Steam Genera	ator			
4.	ID Numbers or Descriptions of Emission	n Units with this I	Emission Point	in Common :	
	Not applicable				
5.	Discharge Type Code :		V		
6.	Stack Height :		315	feet	_
7.	Exit Diameter :		10.0	feet	
8.	Exit Temperature :		336	°F	
9.	Actual Volumetric Flow Rate :		490885	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):	360.000	North (kn	n): 3087.500	
14	Emission Point Comment :				

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2	_
Unit No. 2 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type an	d Associated Operating Method/Mode) :
Coal, petroleum coke/coal blend, TDF/coal blend, some paper pellets and yard clippings.	and coal/petroleum coke/TDF blend burned, with
2. Source Classification Code (SCC): 1-01-	002-03
3. SCC Units: Tons Burned (all solid fuels)	
4. Maximum Hourly Rate : 50.00	5. Maximum Annual Rate: 438,000.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90
9. Million Btu per SCC Unit: 25	
10. Segment Comment :	
liquid oil and oil contaminated solids (i.e., oil abs d. Up to 50 gal/min of nonhazardous boiler clear firing as a routine maintenance activity.	vith up to 48 gal/min used oil combustion, including

III. Part 8 - 1

based on an average heat content of 12,570 Btu/lb.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2	_
Unit No. 2 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate : Segment _	2
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode):
Distillate (No. 2) fuel oil burned in Unit 2 for start	up.
2. Source Classification Code (SCC): 1-01-0	05-01
3. SCC Units: Thousand Gallons Burned (all liqu	rid fuels)
4. Maximum Hourly Rate: 1.08	5. Maximum Annual Rate: 101.60
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. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc.	
Btu per SCC unit value (Field 9) based on an average fuel heat content of 136,280 Btu/gal.	
Maximum annual rate (Field 5) is estimated based	on past practice.

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

E. POLLUTANT INFORMATION

Emissions Unit information Section	
Unit No. 2 - Solid Fuel-Fired Steam Generator	
Pollutant Potential/Estimated Emissions: Poll	lutant <u>1</u>
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: 3,016.80 lb/hour	13,213.60 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other Emissions:	to tons/year
8. Emissions Factor : 2.40 Units : lb/MMBtu	
Reference: Allowable Emissions	en e
9. Emissions Method Code :	
10. Calculations of Emissions :	
See Appendix C	
11. Pollutant Potential/Estimated Emissions Comme	ent :
Potential emissions set equal to allowable emissions. Emission unit pollutant regulatory codes: EL - SO2, PM WP - None	· · ·

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NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

Emissions Unit Information Section 2
Pollutant Information Section1_
Allowable Emissions 1
1. Basis for Allowable Emissions Code : RULE
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units: 2.40 lb/MMBtu
4. Equivalent Allowable Emissions :
3,016.80 lb/hour 13,213.60 tons/year
5. Method of Compliance :
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
Requested allowable emissions represent weekly average emissions, per Specific Condition No. 4 of Permit AO29-189206. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.

Emissions Unit Information Section2_				
Pollutant Information Section1_				
Allowable Emissions 2				
1. Basis for Allowable Emissions Code : RULE				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units: 10.60 tons/hr				
4. Equivalent Allowable Emissions :				
21,220.00 lb/hour 92,856.00 tons/year				
5. Method of Compliance :				
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Hourly rate represents weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-189206. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.				

E. POLLUTANT INFORMATION

Uni	Unit No. 2 - Solid Fuel-Fired Steam Generator					
Pol	lutant Potential/Estimated Emissions	: Pollu	ıtant _	2		
1.	Pollutant Emitted :	PM		,		
2.	Total Percent Efficiency of Control :	99.09	%			
3.	Primary Control Device Code :	010				
4.	Secondary Control Device Code :					
5.	Potential Emissions : 377.10	lb/hour		688.20	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 Emiss	ions			,	,
9.	9. Emissions Method Code: 2					
10	. Calculations of Emissions :					
	See Appendix C					
11.	Pollutant Potential/Estimated Emission	ns Comme	nt :			
	Emission factor of 0.3 lb/MMBtu is applicable during soot blowing. Emission factor during non-soot blowing is 0.1 lb/MMBtu. Annual PM emission rate is based on 3 hr/day soot blowing and 21 hr/day non-soot blowing.					

En	Emissions Unit Information Section2					
Ро	llutant Information Section	2				
<u>All</u>	owable Emissions 1	_				
1.	Basis for Allowable Emissio	ns Code :	RUL	Ε		
2.	Future Effective Date of Allo	owable Emiss	ions :			
3.	Requested Allowable Emiss	ions and Uni	ts: 0.30	lb/N	MMBtu	
4.	Equivalent Allowable Emiss	ions :				
		377.10	lb/hour	688.20	tons/year	
5.	Method of Compliance :					
	Annual test using EPA Reference Method 5, 5B, or 17. Option to use three soot blowing runs to demonstrate compliance with non-soot blowing standard is requested.					
6.	Pollutant Allowable Emissio	ns Comment	(Desc. of Rela	ted Operating Me	thod/Mode) :	
	 0.3 lb/MMBtu applicable during soot-blowing (3 hr/day), per Specific Condition No. 5, Permit AO29-189206. 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2, Permit AO29-189206. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C. 					

Emissions Unit Information Section	2
Visible Emissions Limitation : Visib	le Emissions Limitation1
Visible Emissions Subtype: Vi	3
2. Basis for Allowable Opacity:	JLE .
3. Requested Allowable Opacity:	
Normal Co	
Exceptional Co Maximum Period of Excess Opacity	
maximan one of Excess open.	, , metred : 0 mm/modi
4. Method of Compliance :	
Continuous Emission Monitoring	
5. Visible Emissions Comment:	
FDEP Rule 62-296.405(1)(a), F.A.C.	

Emissions Unit Information Section2			
<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: 60 % Maximum Period of Excess Opacity Allowed: 60 min/hour			
4. Method of Compliance :			
Continuous Emission Monitoring			
5. Visible Emissions Comment :			
Maximum period of excess opacity allowed for 3 hours in any 24-hour period. FDEP Rule 62-210.700(3), F.A.C.			

Emissions Unit Information Section 2			
Visible Emissions Limitation :	Visible Emissions	Limita	ation 3
1. Visible Emissions Subtype :	VES		
			a. 441
2. Basis for Allowable Opacity:	RULE	ri.	
3. Requested Allowable Opacity			
No	rmal Conditions :		%
Excepti	onal Conditions :	100	%
Maximum Period of Excess	Opacity Allowed:	24	min/hour
4. Method of Compliance :			·
Continuous Emission Monitoring			
5. Visible Emissions Comment :			•
Excess emission resulting from boi	ler cleaning and load c	hange.	
Maximum period of excess opacity			s during a single 3-hour period.
FDEP Rule 62-210.700(3), F.A.C.			

Emissions Unit Information Section 2				
Visible Emissions Limitation : Visible Emissions Limi	tation4_			
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: 60	% % min/hour			
4. Method of Compliance :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.				

Emissions Unit Information Section 2				
<u>Visible Emissions Limitation :</u>	Visible Emission	s Limit	cation 5	
1. Visible Emissions Subtype:	VE			
2. Basis for Allowable Opacity :	RULE			
3. Requested Allowable Opacity:	·			
1	mal Conditions :		%	
· ·	onal Conditions :	100	% .	
Maximum Period of Excess	Opacity Allowed :	60	min/hour	
4. Method of Compliance :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Excess emission resulting from star Maximum period of excess emission FDEP Rule 62-210.700(1), F.A.C.	•			

En	Emissions Unit Information Section 2					
Un	Unit No. 2 - Solid Fuel-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 1				
1.	Parameter Code :	VE .				
2.	CMS Requirement :	RULE				
3.	Monitor Information :					
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation M400 400B-44871-B62/				
4.	Installation Date :	01-Oct-1993				
5.	Performance Specification	on Test Date :				
6.	Continuous Monitor Com	iment :				
	Required per 40 CFR Part System includes one opacity	75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. y monitor.				

Em	Emissions Unit Information Section 2					
Uni	Unit No. 2 - Solid Fuel-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	ctem: Continuous Monitor 2				
1.	Parameter Code :	SO2				
2.	CMS Requirement :	RULE				
3.	Monitor Information :					
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48170-279				
4.	Installation Date :	01-Jul-1994				
5.	Performance Specification	on Test Date :				
6.	Continuous Monitor Com	ment:				
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. System includes one SO2 monitor, with one backup system shared among Emission Units 1, 2, and 3					

En	Emissions Unit Information Section2						
Un	Unit No. 2 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	Continuous Monitor 3						
1.	Parameter Code :	NOX					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-47875-279					
4.	Installation Date :	01-Jul-1994					
5.	5. Performance Specification Test Date :						
6.	6. Continuous Monitor Comment :						
	Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 1, 2, and 3.						

En	Emissions Unit Information Section2				
Un	Unit No. 2 - Solid Fuel-Fired Steam Generator				
<u>Co</u>	ntinuous Monitoring Sys	tem:	Continuous Monitor4		
1.	Parameter Code :	FLOW			
2.	CMS Requirement :	RULE			
3.	Monitor Information :				
0.	World Hill Hill Hill Hill Hill Hill Hill Hi				
	Manufacturer :	USI			
	Model Number:	100			
	Serial Number :	9401625	5		
4.	Installation Date :	,	01-Jul-1994		
5.	5. Performance Specification Test Date :				
6.	6. Continuous Monitor Comment :				
	Required per 40 CFR Part 75.				
	System includes one flow monitor.				

iissions Unit Information	Section	2						
Unit No. 2 - Solid Fuel-Fired Steam Generator								
Continuous Monitoring System: Continuous Monitor5								
Parameter Code :	CO2	-						
CMS Requirement :	RULE							
Monitor Information :		<u> </u>						
Manufacturer : Model Number : Serial Number :	Siemens 5E D0-669							
Installation Date :		01-Jul-1994						
Performance Specification	on Test Da	ate:						
Continuous Monitor Com	ment :							
Required per 40 CFR Part 75. System includes one CO2 monitor, with one backup system shared among Emission Units 1, 2, and 3.								
	ntinuous Monitoring Sys Parameter Code : CMS Requirement : Manufacturer : Model Number : Serial Number : Installation Date : Performance Specification Continuous Monitor Com Required per 40 CFR Part 2	Parameter Code: CO2 CMS Requirement: RULE Monitor Information: Manufacturer: Siemens Model Number: 5E Serial Number: D0-669 Installation Date: Performance Specification Test Date Continuous Monitor Comment: Required per 40 CFR Part 75.						

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

E	missions Unit Information Section2_
U	nit No. 2 - Solid Fuel-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. 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 Cons	uming for Ni	troge	n Dioxide?	
[-	has underg			on is undergoing PSD review as part of this previously, for nitrogen dioxide. If so, emissions
[paragraph (c) the emissions	of the defini unit address	tion o	of "major so this sectio	classified as an EPA major source pursuant to urce of air pollution" in Chapter 62-213, F.A.C., and note commenced (or will commence) construction issions are zero, and emissions unit consumes
[emissions unit	began initia	l ope	ration 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	ditional anal les in emiss	ysis, ions l	beyond the	missions of the emissions unit are nonzero. In scope of this application, is needed to determine ed (or will occur) after the baseline date that may
3.	Increment Cons	uming/Expa	ındin	g Code :	
	DM.	**			•
	PM: SO2:	U U			
	NO2 :	Ŭ			
4.	Baseline Emiss	ions :			
	PM:	377.	1000	lb/hour	688.2000 tons/year
	SO2:			lb/hour	13213.6000 tons/year
	NO2 :				8506.2000 tons/year
5.	PSD Comment	:			
	Emission unit is p Hourly emission r				ventory.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-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 :	III.I.3	_
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 :	Appendix A	
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	
		_

13. 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

Emi	ssions Unit Information Section 3
Unit	No. 3 - Solid Fuel-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 Addressed	in This Section:	

Unit No. 3 - Solid Fuel-Fired Steam Generator

2. ARMS Identification Number: 003

3. Emissions Unit Status 4. Acid Rain Unit? 5. Emissions Unit Major Code: Group SIC Code:

A Y 49

- 6. Initial Startup Date:
- 7. Long-term Reserve Shutdown Date:
- 8. Package Unit:

Manufacturer: Model Number:

9. Generator Nameplate Rating:

180 MW

10. Incinerator Information:

Dwell Temperature:

°F

Dwell Time:

seconds

Incinerator Afterburner Temperature:

°F

11. Emissions Unit Comment:

- a) Babcock & Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).
- b) No. 2 fuel oil used for ignition during start-up.
- c) Unit may be fired with coal, coal/petroleum coke blend, coal/TDF blend, or coal/petroleum coke/TDF blend, with some paper pellets and yard clippings.

- d) Fluxing agent may be added to fuel.
- e) Solid fuel may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 3 is a "regulated" emissions unit.

Emissions Unit Information Section	
Emissions Unit Control Equipment	1
1. Description :	
Electrostatic Precipitator System	
2. Control Device or Method Code :	10

Emissions Unit Information Section	3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	1599	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 fuel heat input is 1,599 MMBtu/hr o	on a me	onthly average basis.	

Emissions Unit Information Section	3

Unit No. 3 - Solid Fuel-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 - Solid Fuel-Fired Steam Generator					
Rule Applicability Analysis					
Not applicable			,		

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	3
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Unit No. 3 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section	3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram	CS-003	
2.	Emission Point Type Code : 1		
3.	Descriptions of Emission Points Comprising this Er	missions Unit :	
	Unit No. 3 - Solid Fuel-Fired Steam Generator		
4.	ID Numbers or Descriptions of Emission Units with	this Emission Point	in Common :
	Not applicable		
5.	Discharge Type Code :	V	
6.	Stack Height :	315	feet
7.	Exit Diameter :	10.6	feet
8.	Exit Temperature :	290	°F
9.	Actual Volumetric Flow Rate :	537259	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): 360,000	North (km)	3087.500
14	. Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3	_
Unit No. 3 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode) :
Coal, petroleum coke/coal blend, TDF/coal blend, some papper pellets and yard clippings.	and coal/petroleum coke/TDF blend burned, with
2. Source Classification Code (SCC): 1-01-0	002-03
3. SCC Units: Tons Burned (all solid fuels)	
4. Maximum Hourly Rate: 65.00	5. Maximum Annual Rate : 569,400.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90
9. Million Btu per SCC Unit: 25	
10. Segment Comment :	
and oil-contaminated solids (i.e., oil absorbant, oil d. Up to 50 gal/min of nonhazardous boiler clean firing as a routine maintenance activity.	to 48 gal/min used oil combustion, including liquid oil

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

based on an average heat content of 12,300 Btu/lb.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section		
Unit No. 3 - Solid Fuel-Fired Steam Generator		
Segment Description and Rate: Segme	ent <u>2</u>	
1. Segment Description (Process/Fuel Type	e and Associated Operating Method/Mode) :	
Distillate (No. 2) fuel oil burned in Unit 3 for	startup.	
2. Source Classification Code (SCC): 1-	-01-005-01	
3. SCC Units: Thousand Gallons Burned (al	Il liquid fuels)	
4. Maximum Hourly Rate : 1.08	5. Maximum Annual Rate : 700.00	
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 mill or cyclone into service, maintenance acti	. Startup include cold start, hot start, bringing an additional vities, etc.	
Btu per Scc unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.		
Maximum annual rate (Field 5) is estimated l	based on past practice.	

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E. POLLUTANT INFORMATION

Linissions Officiation Section	_
Unit No. 3 - Solid Fuel-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 : 3,837.60 lb/ho	our 16,808.70 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other Emission	to tons/year
8. Emissions Factor : 2.40 Units : lb/MMBtu Reference : Allowable Emissions	
9. Emissions Method Code :	,
10. Calculations of Emissions :	
See Appendix C	
11. Pollutant Potential/Estimated Emissions Co.	mment:
Potential emissions set equal to allowable emissi Emission unit pollutant regulatory code: EL - SO2, PM WP - None	ions.

NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

En	nissions Unit Information Section3
Ро	Ilutant Information Section1_
All	owable Emissions 1
1.	Basis for Allowable Emissions Code : RULE
2.	Future Effective Date of Allowable Emissions :
3.	Requested Allowable Emissions and Units: 2.40 lb/MMBtu
4.	Equivalent Allowable Emissions :
	3,837.60 lb/hour 16,808.68 tons/year
5.	Method of Compliance :
	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
	Requested allowable emissions represent a weekly average, per Specific Condition No. 4 of Permit AO29-172179. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.

Emissions Unit Information Section 3
Pollutant Information Section1 Allowable Emissions 2
Allowable Elitissions 2
Basis for Allowable Emissions Code : RULE
2. Future Effective Date of Allowable Emissions :
3. Requested Allowable Emissions and Units: 10.60 tons/hr
4. Equivalent Allowable Emissions :
21,220.00 lb/hour 92,856.00 tons/year
5. Method of Compliance :
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 60-296.405(1)(f)1.b., F.A.C
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
Hourly rate represents a weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-172179. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.

E. POLLUTANT INFORMATION

Em	issions Unit Information Section	3	_				
Uni	t No. 3 - Solid Fuel-Fired Steam Generator				,		
<u>Pol</u>	llutant Potential/Estimated Emissions	<u>: :</u>	Polluta	nt _	2		
1.	Pollutant Emitted :	PM	·				
2.	Total Percent Efficiency of Control :	99.07	,	%			
3.	Primary Control Device Code :	010					
4.	Secondary Control Device Code :		·				
5.	Potential Emissions: 479.70	lb/ho	ur		875.50	tons/year	
6.	Synthetically Limited? N				,		
7.	Range of Estimated Fugitive/Other Em	nission	s:		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	ns Co	mment	:			
	Emission factor of 0.3 lb/MMBtu is appl Emission factor during non-soot blowing Annual PM emission rate is based on 3 h	is 0.1 l	lb/MME	Btu.		ı-soot blowi	ng.

Em	issions Unit Information Section3
Pol	lutant Information Section2_
Allo	owable Emissions 1
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 :
	479.70 lb/hour 875.50 tons/year
5.	Method of Compliance :
	Annual testing using EPA Reference Method 5, 5B, or 17. Option to use three soot blowing runs to demonstrate compliance with non-soot blowing standard is requested.
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
	 0.3 lb/MMBtu applicable during soot-blowing (3 hrs/day), per Specific Condition No. 2 of Permit AO29-172179. 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2 of Permit AO29-172179. FDEP Rule 62-210.700(3) and 62-296.405(1)(b), F.A.C.

Emissions Unit Information Section3
Visible Emissions Limitation : Visible Emissions Limitation 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 :
Continuous Emission Monitoring
5. Visible Emissions Comment :
FDEP Rule 62-296.405(1)(a), F.A.C.

Emissions Unit Information Section3	
Visible Emissions Limitation 2	
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 :	
Continuous Emission Monitoring	
5. Visible Emissions Comment :	
Maximum period of excess opacity allowed for 3 hours in any 24-hour period. FDEP Rule 62-210.700(3), F.A.C.	

Emissions Unit Information Section3					
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation3					
1. Visible Emissions Subtype : VES					
2. Posis for Allewable Organity					
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 :					
Continuous Emission Monitoring					
5. Visible Emissions Comment :					
Excess emission resulting from boiler cleaning and load change. Maximum period of excess opacity allowed is 4 six-minute periods during a single 3-hour period. FDEP Rule 62-210.700(3), F.A.C.					

Emissions Unit Information Section3
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 4
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: 60 min/hour
4. Method of Compliance :
Continuous Emission Monitoring
5. Visible Emissions Comment :
Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.

Em	nissions Unit Information Section	on <u>3</u>			
<u>Vis</u>	ible Emissions Limitation :	Visible Emission	ns Limi	tation5	
1.	Visible Emissions Subtype :	VE			
2.	Basis for Allowable Opacity:	RULE			
3.	Requested Allowable Opacity :				
		nal Conditions :		%	
	-	nal Conditions :	100	%	
	Maximum Period of Excess C)pacity Allowed :	60	min/hour	
4.	Method of Compliance :				
	Continuous Emission Monitoring				
5.	Visible Emissions Comment :	8.8.8.8			
	Excess emission resulting from starts Maximum period of excess emission FDEP Rule 62-210.700(1), F.A.C.	• •			

En	Emissions Unit Information Section3						
Un	Unit No. 3 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 1					
1.	Parameter Code :	VE					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation M400 400B-3500					
4.	Installation Date :	01-Oct-1993					
5.	5. Performance Specification Test Date :						
6.	6. Continuous Monitor Comment :						
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes one opacity monitor.						

Em	Emissions Unit Information Section3						
Uni	Unit No. 3 - Solid Fuel-Fired Steam Generator						
Co	ntinuous Monitoring Sys	ctem: Continuous Monitor 2					
1.	Parameter Code :	SO2					
2.	CMS Requirement :	RULE					
3.	Monitor Information :	,					
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-48171-279					
4.	Installation Date :	01-Jul-1994					
5.	5. Performance Specification Test Date :						
6.	6. Continuous Monitor Comment :						
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. System includes one SO2 monitor, with a backup system shared among Emission Units 1, 2, and 3						

Em	Emissions Unit Information Section 3						
Uni	Unit No. 3 - Solid Fuel-Fired Steam Generator						
Co	ntinuous Monitoring Sys	tem: Continuous Monitor 3					
1.	Parameter Code :	NOX					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer:	Thermo Environmental Corporation					
	Model Number:	42D					
	Serial Number :	42D-47872-279					
4.	Installation Date :	01-Jul-1994					
5.	Performance Specification	n Test Date :					
6.	6. Continuous Monitor Comment :						
	Required per 40 CFR Part 75.						
	System includes one NOx monitor, with a backup system shared among Emission Units 1, 2, and 3.						

Emissions Unit Information	Section	3				
Unit No. 3 - Solid Fuel-Fired Steam Generator						
Continuous Monitoring Sys	stem : C	continuous Monitor	4			
1. Parameter Code :	FLOW					
2. CMS Requirement :	RULE					
3. Monitor Information :						
Manufacturer : Model Number : Serial Number :	USI 100 9401629					
4. Installation Date :		01-Jul-1994				
5. Performance Specification Test Date :						
6. Continuous Monitor Com	iment:					
Required per 40 CFR Part of System includes one flow m						

Em	Emissions Unit Information Section3						
Uni	Unit No. 3 - Solid Fuel-Fired Steam Generator						
Co	ntinuous Monitoring Sys	stem: Continuous Monitor5					
1.	Parameter Code :	CO2					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Siemens 5E E3-727					
4.	Installation Date :	01-Jul-1994					
5.	Performance Specification	on Test Date :					
6.	Continuous Monitor Com	ment :					
	Required per 40 CFR Part 75. System includes one CO2 monitor, with a backup system shared among Emission Units 1, 2, and 3.						

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

E	missions Unit Information Section3_
U	nit No. 3 - Solid Fuel-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 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.
[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.	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	begar	n initial ope	ration after	classified as an EPA ma February 8, 1988, but b ions unit consumes incr	efore March 28, 1988. If
Ţ	•				or will begin) initial opera ssions unit consumes in	ition after March 28, 1988. crement.
[X	such case, add	ditiona jes in	l analysis, emissions l	beyond the		ns unit are nonzero. In no, is needed to determine ne baseline date that may
3.	Increment Cons	uming	ı/Expandin	g Code :		
	PM:	U				
	SO2:	Ü				
	NO2 :	U				
4.	Baseline Emissi	ions :				
	PM:		479.7000	lb/hour	875,5000	tons/year
	SO2 :		3837.6000	lb/hour	16808.7000	-
	NO2 :				10820.6000	tons/year
5.	PSD Comment	:				
	Emission unit is particularly emission r				rentory.	

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IL EMISSIONS UPTT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-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 :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Designation :	NA
G. Daubeture in Little (in 1100)	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application:	NA
9. Other Information Required by Ruis or \$ 1.11;	Appendix A
Additional Supplemental requirements (อ. จะเราะ ค. กอยโication	s Only
10. Alternative Methods of Operations :	III.I.10
11. Alterntive Modes of Operation (Emissions Trading):	NA
12. Enhanced Monitorino Plan :	III.I.12

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13.	lden	tification	of	Additional	Applicable	Requ	irem	ents	:

Appendix A

14. Acid Rain Application (Hard-copy Required):

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissio	ons Unit Information Section4
Unit No.	. 4 - Solid Fuel-Fired Steam Generator
Type of	f Emissions Unit Addressed in This Section
- p	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).
ir	This Emissions Unit Information Section addresses, as a single emissions unit, an ndividually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
C	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	4

Emissions Unit Description and Status

1. Description of Emissions Unit	1. Description of Emissions Unit Addressed in This Section :					
Unit No. 4 - Solid Fuel-Fired Ste	Unit No. 4 - Solid Fuel-Fired Steam Generator					
2. ARMS Identification Number	: 004					
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: 188 MW		·			
10. Incinerator Information :						
	mperature :	°F				
Dwell Time: seconds Incinerator Afterburner Temperature: °F						
11. Emissions Unit Comment :						
II.D.3).	a) Babcock & Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).					
b) No. 2 fuel oil used for ignitc) Unit may be fired with coal,		l, coal/Tl	DF blend, or coal/petroleum			
coke/TDF blend, with some paper pellets and yard clippings.						

- d) Fluxing agent may be added to fuel.
- e) Solid fuel may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 4 is a "regulated" emissions unit.

Emissions Unit Information Section	4		
Emissions Unit Control Equipment	1		
1. Description :		•	
Electrostatic Precipitator System			
2. Control Device or Method Code :	10	-	

Emissions Unit Information Section	4

Unit No. 4 - Solid Fuel-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	1876 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 fuel heat input is 1,876 MMBtu/hr o	on a monthly average	basis.

Emissions	Unit Information S	Section	4

Unit No. 4 - Solid Fuel-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					
Unit No. 4 - Solid Fuel-Fired Steam Generator					
Rule Applicability Analysis					
Not applicable					

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit	Information	Section	4

Unit No. 4 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit Information	Section	4
		· · · · · · · · · · · · · · · · · · ·	

Unit No. 4 - Solid Fuel-Fired Steam Generator

Emission Point Description and Type:

1. Identification of Point on Plot Plan or Flo	ow Diagram: CS-004 a, b	
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Compris	sing this Emissions Unit ;	
Unit 4 - Solid Fuel-Fired Steam Generator	•	
4. ID Numbers or Descriptions of Emission	Units with this Emission Po	pint in Common :
Not applicable		
5. Discharge Type Code	_	V
6. Stack Height :	3	15 feet
7. Exit Diameter :	9.6	60 feet
8. Exit Temperature :	21	77 °F
9. Actual Volumetric Flow Rate :	693,90	00 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):	360.000 North (km): 3,087.500
14. Emission Point Comment:	-	
Two identical stacks serve Unit 4. The actua	l volumetric flow rate is the to	tal for both stacks.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4	_
Unit No. 4 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):
Coal, petroleum coke/coal blend, TDF/coal blend, some paper pellets and yard clippings.	and coal/petroleum coke/TDF blend burned, with
2. Source Classification Code (SCC): 1-01-0	002-03
3. SCC Units: Tons Burned (all solid fuels)	
4. Maximum Hourly Rate: 80.00	5. Maximum Annual Rate: 700,800.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90
9. Million Btu per SCC Unit: 23	
and oil-contaminated solids (i.e., oil absorbant, oil d. Up to 50 gal/min of nonhazardous boiler clean firing as a routine maintenance activity.	to 48 gal/min used oil combustion, including liquid oil y soil, etc.).

III. Part 8 - 1

based on an average heat content of 11,669 Btu/lb.

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4				
Unit No. 4 - Solid Fuel-Fired Steam Generator				
Segment Description and Rate: Segment 2				
Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :				
Distillate (No. 2) fuel oil burned in Unit 4 during sta	Distillate (No. 2) fuel oil burned in Unit 4 during startup.			
2. Source Classification Code (SCC): 1-01-005-01				
3. SCC Units: Thousand Gallons Burned (all liquid fuels)				
4. Maximum Hourly Rate: 1.08 5	5. Maximum Annual Rate : 700.00			
6. Estimated Annual Activity Factor :				
7. Maximum Percent Sulfur: 0.50	3. Maximum Percent Ash :			
9. Million Btu per SCC Unit: 136				
10. Segment Comment :				
No. 2 fuel oil used for ignition during startup. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc.				
Btu per SCC unit value (Field 9) based on average fuel heat content of 136,280 Btu/gal.				
Maximum annual rate (Field 5) is estimated based on past practice.				

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E. POLLUTANT INFORMATION

Emissions Unit Information Section	4	
Unit No. 4 - Solid Fuel-Fired Steam Generator		
Pollutant Potential/Estimated Emissions	s: Pollutant <u>I</u>	
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: 4,502.40	lb/hour 19,720.50 tons/year	
6. Synthetically Limited? N		
7. Range of Estimated Fugitive/Other En	nissions: to	tons/year
8. Emissions Factor : 2.40 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 unit pollutant regulatory code EL - SO2, PM WP - None		

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NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

Em	sissions Unit Information Section 4		
Ро	llutant Information Section1_		
Alle	owable Emissions 1		
1.	Basis for Allowable Emissions Code : RULE		
2.	Future Effective Date of Allowable Emissions :		
3.	Requested Allowable Emissions and Units: 2.40 lb/MMBtu		
4.	Equivalent Allowable Emissions :		
	4,502.40 lb/hour 19,720.50 tons/year		
5.	Method of Compliance: Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C		
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): Requested allowable emissions represent a weekly average, per Specific Condition No. 4 of Permit AO29-225208. FDEP 62-296.405(1)(c)2.a., F.A.C.		

Emissions Unit Information Section4_			
	owable Emissions 2		
1.	Basis for Allowable Emissions Code : RULE		
2.	Future Effective Date of Allowable Emissions :		
3.	Requested Allowable Emissions and Units: 10.60 tons/hr		
4.	Equivalent Allowable Emissions :		
	21,220.00 lb/hour 92,856.00 tons/year		
5.	Method of Compliance :		
	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C		
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :		
	Hourly rate represents a weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-225208. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.		

E. POLLUTANT INFORMATION

Emissions Unit Information Section	4		
Unit No. 4 - Solid Fuel-Fired Steam Generator		•	
Pollutant Potential/Estimated Emission	<u>s :</u> Polluta	ant2	
1. Pollutant Emitted :	PM		
2. Total Percent Efficiency of Control :	99.05	%	
3. Primary Control Device Code :	010	,	
4. Secondary Control Device Code :		_	
5. Potential Emissions : 562.80	lb/hour	1,027.10	tons/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other Er	missions:	to	tons/year
8. Emissions Factor: 0.30 Units: Ib/MMBtu Reference: Allowable Emis	ssions		
9. Emissions Method Code :			
10. Calculations of Emissions :	_		
See Appendix C		,	
11. Pollutant Potential/Estimated Emissi	ons Comment	•	
Emission factor of 0.3 lb/MMBtu is app Emission factor during non-soot blowing Annual PM emission rate is based on 3	g is 0.1 lb/MMI	Btu.	on-soot blowing.

Em	Emissions Unit Information Section4			
Ро	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: 0.30 lb/MMBtu			
4.	Equivalent Allowable Emissions :			
	562.80 lb/hour 1,027.10 tons/year			
5.	Method of Compliance :			
	Annual testing using EPA Reference Method 5, 5B, or 17. Option to use three soot blowing runs to demonstrate compliance with non-soot blowing standard is requested. Option is requested to test west stack with one velocity and temperature traverse of east stack conducted each day of testing.			
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
	 0.3 lb/MMBtu applicable during soot-blowing (3 hrs/day), per Specific Condition No. 2 of Permit AO29-225208. 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2 of Permit AO29-225208. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C. 			

Emi	issions Unit Information Section4			
<u>Visi</u>	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 %			
	Exceptional Conditions: 27 %			
	Maximum Period of Excess Opacity Allowed: 6 min/hour			
4.	Method of Compliance :			
	Continuous Emission Monitoring			
5.	Visible Emissions Comment :			
]	FDEP Rule 62-296.405(1)(a), F.A.C.			

Emissions Unit Information Section4		
Visible Emissions Limitation 2		
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 :		
Continuous Emission Monitoring		
5. Visible Emissions Comment :		
Maximum period of excess opacity allowed for 3 hours in any 24-hour period. FDEP Rule 62-210.700(3), F.A.C.		

Emissions Unit Information Section 4			
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation3_			
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 :			
Continuous Emission Monitoring			
5. Visible Emissions Comment :			
Excess emission resulting from boiler cleaning and load change. Maximum period of excess opacity allowed is 4 six-minute periods during a single 3-hour period. FDEP Rule 62-210.700(3), F.A.C.			
L			

Emissions Unit Information Section4
Visible Emissions Limitation: Visible Emissions Limitation 4
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: 60 min/hour
4. Method of Compliance :
Continuous Emission Monitoring
5. Visible Emissions Comment :
Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.

Emissions Unit Information Section 4		
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation5		
1. Visible Emissions Subtype : VE		
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 :		
Continuous Emission Monitoring		
5. Visible Emissions Comment :		
Maximum period of excess emission allowed is 2 hours in any 24-hour period. FDEP Rule 62-210.700(1), F.A.C.		
L		

Em	Emissions Unit Information Section4						
Un	Unit No. 4 - Solid Fuel-Fired Steam Generator						
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 1					
1.	Parameter Code :	VE					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation M701 400-0010-3298					
4.	Installation Date :	01-Dec-1983					
5.	5. Performance Specification Test Date :						
6.	6. Continuous Monitor Comment :						
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes two opacity monitors for two stacks.						

Em	Emissions Unit Information Section4					
Uni	Unit No. 4 - Solid Fuel-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	ctem: Continuous Monitor 2				
1.	Parameter Code :	SO2 .				
2.	CMS Requirement :	RULE				
3.	Monitor Information :	<u> </u>				
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-47685-279				
4.	Installation Date :	01-Jul-1994				
5.	5. Performance Specification Test Date :					
6.	Continuous Monitor Com	ment:				
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. System includes two SO2 monitors for two stacks, with one backup system shared among Emission Units 4, 5, and 6.					

Em	Emissions Unit Information Section4					
Uni	t No. 4 - Solid Fuel-Fired Ste	eam 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-47874-279				
4.	Installation Date :	01-Jul-1994				
5.	5. Performance Specification Test Date :					
6.	. Continuous Monitor Comment :					
	Required per 40 CFR Part 75. System includes two NOx monitors for two stacks, with one backup system shared among Emission Units 4, 5, and 6.					

En	Emissions Unit Information Section4						
Un	Unit No. 4 - Solid Fuel-Fired Steam Generator						
Co	ntinuous Monitoring Sys	stem :	Continuous Monitor	4			
1.	Parameter Code :	FLOW					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	USI 100 9401628	3				
4.	Installation Date :	,	01-Jul-1994				
5.	Performance Specification	on Test Da	ate :				
6.	Continuous Monitor Com	nment :		· · · · · · · · · · · · · · · · · · ·			
	Required per 40 CFR Part System includes two flow n		two stacks.				

En	Emissions Unit Information Section4					
Un	Unit No. 4 - Solid Fuel-Fired Steam Generator					
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor5_				
1.	Parameter Code :	CO2				
2.	CMS Requirement :	RULE				
3.	Monitor Information :					
	Manufacturer : Model Number : Serial Number :	Siemens 5E D9-572				
4.	Installation Date :					
5.	Performance Specification	n Test Date :				
6.	Continuous Monitor Com	ment:				
	Required per 40 CFR Part 7 System includes two CO2 m 4, 5, and 6.	5. onitors for two stacks, with one backup system shared among Emission Units				

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

Emis	sions Unit Information Section4
Unit 1	No. 4 - Solid Fuel-Fired Steam Generator
<u>PSD</u>	Increment Consumption Determination
1. In	crement Consuming for Particulate Matter or Sulfur Dioxide?
F	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 ncrement.
r t	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 lanuary 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.
s	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	or Nitroge	n Dioxide?		•
]	The emissions unit add application, or has und unit consumes increme	lergone F			view as part of this dioxide. If so, emissions
]	The facility addressed paragraph (c) of the de the emissions unit add after February 8, 1988 increment.	efinition o	f "major source this section co	of air pollution" in C mmenced (or will co	hapter 62-213, F.A.C., and mmence) construction
[The facility addressed emissions unit began in so, baseline emissions	nitial ope	ration after Feb	ruary 8, 1988, but b	efore March 28, 1988. If
[] For any facility, the em If so, baseline emission		• •	- ,	ition after March 28, 1988. crement.
[X		analysis, nissions l	beyond the sco	oe of this application	is unit are nonzero. In n, is needed to determine e baseline date that may
3.	. Increment Consuming/E	xpandin	g Code :		
	PM: U SO2: U NO2: U				
4.	. Baseline Emissions :				
		562.7999 502.3999		1027.0999 19720.5000 12695.1000	tons/year
5.	. PSD Comment :				
	Emission unit is part of bas Hourly emission rates are d			ry.	

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Unit No. 4 - Solid Fuel-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 :	III.I.3
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 :	Appendix A
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
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Emissions Unit Information Section

13 .	Identification	of Additional	Applicable	Requirements:

Appendix A

14. Acid Rain Application (Hard-copy Required):

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

⊨mı	issions Unit information Section					
Unit	Unit No. 5 - Solid Fuel-Fired Steam Generator					
Тур	e of Emissions Unit Addressed in This Section					
[X	[7] 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	5

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section :							
Unit No. 5 - Solid Fuel-Fired Steam Generator							
2. ARMS Identification Number	r: 005						
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Emissions Unit M Group SIC Code :	lajor			
A		Y		49			
6. Initial Startup Date :							
7. Long-term Reserve Shutdov	vn Date :						
8. Package Unit :							
Manufacturer : Model Number :							
9. Generator Nameplate Rating	g: 239 MV	V					
10. Incinerator Information :				·			
	mperature :	°F					
Dwell Time: seconds Incinerator Afterburner Temperature: °F							
11. Emissions Unit Comment :	11. Emissions Unit Comment :						
 a) Riley Stoker steam powered electric generating (See Process Flow Diagram in Document II.D.3). b) No. 2 fuel oil used for ignition during start-up. c) Unit may be fired with coal, coal/petroleum coke blend, coal/TDF blend, or coal/petroleum coke/TDF blend. d) Fluxing agent may be added to the fuel. 							

- e) Solid fuel may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 5 is a "regulated" emissions unit.

Emissions Unit Information Section	5		
Emissions Unit Control Equipment	1		
1. Description :			
Electrostatic Precipitator System			
2. Control Device or Method Code :	10	•	

Emissions Unit Information Section	5
Unit No. 5 - Solid Fuel-Fired Steam Generator	

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	2284	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 fuel heat input is 2,284 MMBtu/hr	on a m	onthly average basis	

Emissions Unit Information Section	5

Unit No. 5 - Solid Fuel-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 - Solid Fuel-Fired Steam Generator			
Rule Applicability Analysis			
Not applicable			

B. EMISSIONS UNIT REGULATIONS

Unit No. 5 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information	Section	5

Unit No. 5 - Solid Fuel-Fired Steam Generator

Emission Point Description and Type:

1. Identification of Point on Plot Plan or Flow Diagram :	CS-005	
2. Emission Point Type Code:		
3. Descriptions of Emission Points Comprising this Emission	ons Unit :	
Unit No. 5 - Solid Fuel-Fired Steam Generator		
4. ID Numbers or Descriptions of Emission Units with this E	Emission Point	in Common :
Not applicable		
5. Discharge Type Code :	V	
6. Stack Height :	315	feet
7. Exit Diameter :	14.6	feet
8. Exit Temperature :	276	°F
9. Actual Volumetric Flow Rate :	738606	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): 360.000	North (km	n): 3087.500
14. Emission Point Comment:	-	

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section5	_
Unit No. 5 - Solid Fuel-Fired Steam Generator	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode):
Coal, petroleum coke/coal blend, TDF/coal blend,	and coal/petroleum coke/TDF blend burned.
2. Source Classification Code (SCC): 1-01-0	02-01
3. SCC Units: Tons Burned (all solid fuels)	
4. Maximum Hourly Rate: 93.40	5. Maximum Annual Rate: 818,184.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90
9. Million Btu per SCC Unit: 24	
and oil-contaminated solids (i.e., oil absorbant, oil d. Up to 50 gal/min of nonhazardous boiler clean firing as a routine maintenance activity.	to 48 gal/min used oil combustion including liquid oil ly soil, etc.). ing waste water may be injected into boiler during ual rate (Field 5), and Btu/SCC unit value (Field 9)

III. Part 8 - 1

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D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5	_
Unit No. 5 - Solid Fuel-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 5 for start	up.
2. Source Classification Code (SCC): 1-01-0	005-01
3. SCC Units: Thousand Gallons Burned (all liq	uid fuels)
4. Maximum Hourly Rate: 1.44	5. Maximum Annual Rate: 260.00
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 is used for ignition during startup. additional mill or cyclone into service, maintenance	
Btu per Scc unit value (Field 9) based on average	fuel heat content of 136,280 Btu/gal.
Maximum annual rate (Field 5) is estimated based	d on past practice.

III. Part 8 - 3

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E. POLLUTANT INFORMATION

Emissions Unit Information Section	5
Unit No. 5 - Solid Fuel-Fired Steam Generator	
Pollutant Potential/Estimated Emissions:	Pollutant 1
1. Pollutant Emitted : SC)2
2. Total Percent Efficiency of Control: 0.	00 %
3. Primary Control Device Code :	
4. Secondary Control Device Code :	
5. Potential Emissions: 5,481.60 lb	/hour 24,009.40 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other Emiss	ons: , to tons/year
8. Emissions Factor : 2.40 Units : lb/MMBtu Reference : Allowable Emission	
9. Emissions Method Code :	
10. Calculations of Emissions :	
See Appendix C	
11. Pollutant Potential/Estimated Emissions	Comment :
Potential emissions set equal to allowable em Emission unit pollutant regulatory code: EL - SO2, PM	issions.

III. Part 9a - 5

NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

Emis	ssions Unit Information Section5
Pollu	utant Information Section 1
Allov	wable Emissions 1
1. E	Basis for Allowable Emissions Code : RULE
2. F	Future Effective Date of Allowable Emissions :
3. F	Requested Allowable Emissions and Units : 2.40 lb/MMBtu
4. E	Equivalent Allowable Emissions :
	5,481.60 lb/hour 24,009.40 tons/year
5. N	Method of Compliance :
1	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.
6. F	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :
A	Requested allowable emission represents a weekly average, per Specific Condition No. 4 of Permit AO29-203511. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.

Em	Emissions Unit Information Section5_							
	Pollutant Information Section 1 Allowable Emissions 2							
	Basis for Allowable Emissions Code : RULE							
2.	Future Effective Date of Allowable Emissions :							
3.	Requested Allowable Emissions and Units: 10.60 tons/hr							
4.	Equivalent Allowable Emissions :							
	21,220.00 lb/hour 92,856.00 tons/year							
5.	Method of Compliance :							
	Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.							
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :							
E	Hourly rate represents a weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-203511. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.							

E. POLLUTANT INFORMATION

	-		_				
Unit No. 5 - Solid Fuel-Fired Steam Generator							
<u>Pol</u>	utant Potential/Estimated Emissions	<u>:</u>	Polluta	ant	2		
1.	Pollutant Emitted :	PM			,		
2.	Total Percent Efficiency of Control :	99.70)	%			
3.	Primary Control Device Code :	010					
4.	Secondary Control Device Code :						
5.	Potential Emissions : 685.20	lb/ho	ur		1,250.20	tons/year	
6.	Synthetically Limited? N					·	
7.	Range of Estimated Fugitive/Other Em	ission	s:		to		tons/year
8.	Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable Emiss	ions			, .		
9.	Emissions Method Code :						
10.	Calculations of Emissions :						
	See Appendix C						
11.	Pollutant Potential/Estimated Emissio	ns Co	mmen	t:			
	Emission factor of 0.3 lb/MMBtu is applicable during soot blowing. Emission factor during non-soot blowing is 0.1 lb/MMBtu. Annual PM emission rate is based on 3 hr/day soot blowing and 21 hr/day non-soot blowing.						

Emissions Unit Information Section5_						
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: 0.30 lb/MMBtu					
4.	Equivalent Allowable Emissions :					
	685.20 lb/hour 1,250.50 tons/year					
5.	Method of Compliance :					
	Annual testing using EPA Reference Method 5, 5B, or 17. Option to use three soot blowing runs to demonstrate compliance with non-soot blowing standard is requested.					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode):					
	 0.3 lb/MMBtu applicable during soot-blowing (3 hrs/day), per Specific Condition No. 5B of Permit AO29-203511. 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2 of Permit AO29-203511. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C. 					

Emissions Unit Information Section5_					
Visible Emissions Limitation . Wisible Emissions Limitation . 1					
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 :					
Continuous Emission Monitoring					
5. Visible Emissions Comment :					
FDEP Rule 62-296.405(1)(a), F.A.C.					

⊏m	Emissions Unit Information Section5					
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation2_					
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 :					
	Continuous Emission Monitoring					
5.	Visible Emissions Comment :					
	Maximum period of excess opacity allowed for 3 hours in any 24-hour period. FDEP Rule 62-210.700(3), F.A.C.					

Emissions Unit Information Section5							
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation3_							
1. Visible Emissions Subtype :	VES						
2. Basis for Allowable Opacity:	RULE						
3. Requested Allowable Opacity:							
Nor	rmal Conditions :		· %				
	onal Conditions :	100	%				
Maximum Period of Excess		24	min/hour				
4. Method of Compliance :							
Continuous Emission Monitoring							
5. Visible Emissions Comment :							
Excess emission resulting from boiler cleaning and load change.							
	Maximum period of excess opacity allowed is 4 six-minute periods during a single 3-hour period.						
FDEP Rule 62-210.700(3), F.A.C.							

Em	nissions Unit Information Section5_
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation 4
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: 60 min/hour
4.	Method of Compliance :
	Continuous Emission Monitoring
5.	Visible Emissions Comment :
1	Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.

Emissions Unit Information Section					
Visible Emissions Limitation: Visible Emissions Limitation 5					
Visible Emissions Emitation 5					
1. Visible Emissions Subtype : VE					
2. Basis for Allowable Opacity: RULE					
3. Requested Allowable Opacity:					
C. Requested Allowable Opacity .					
Normal Conditions : %					
Exceptional Conditions: 100 %					
Maximum Period of Excess Opacity Allowed: 60 min/hour					
4. Method of Compliance :					
Continuous Francisco Manitestina					
Continuous Emission Monitoring					
E. Vicible Essissions Comment.					
5. Visible Emissions Comment :					
Excess emission resulting from startup, shutdown, or malfunction.					
Maximum period of excess emission allowed is 2 hours in any 24-hour period.					
FDEP Rule 62-210.70091), F.A.C.					

Em	Emissions Unit Information Section5							
Un	Unit No. 5 - Solid Fuel-Fired Steam Generator							
<u>Co</u>	ntinuous Monitoring Sys	stem: Continuous Monitor 1						
1.	Parameter Code :	VE						
		•						
2.	CMS Requirement :	RULE						
3.	Monitor Information :							
	Manufacturer :	Thermo Environmental Corporation						
	Model Number :	M500						
	Serial Number :	400B-29005-233/						
4.	Installation Date :	01-Nov-1990						
5.	Performance Specification	on Test Date :						
6.	Continuous Monitor Com	ment:						
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.							
	System includes one opacity monitor.							

Em	Emissions Unit Information Section5_							
Un	Unit No. 5 - Solid Fuel-Fired Steam Generator							
<u>Co</u>	ntinuous Monitoring Sys	tem: Continuous Monitor2						
1.	Parameter Code :	SO2						
2.	CMS Requirement :	RULE						
3.	Monitor Information :							
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 43B 43B-47690-279						
4.	Installation Date :	01-Jul-1994						
5.	5. Performance Specification Test Date :							
6.	Continuous Monitor Com	ment :						
	Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. System includes one SO2 monitor, with one backup system shared among Emission Units 4, 5, and 6.							

Emissions Unit Information Section5							
Unit	Unit No. 5 - Solid Fuel-Fired Steam Generator						
Con	ntinuous Monitoring Sys	tem: Continuous Monitor3					
1.	Parameter Code :	NOX					
2.	CMS Requirement :	RULE					
3.	Monitor Information :						
	Manufacturer : Model Number : Serial Number :	Thermo Environmental Corporation 42D 42D-47878-279					
4.	Installation Date :	01-Jul-1994					
5.	5. Performance Specification Test Date :						
6.	Continuous Monitor Com	ment:					
	Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 4, 5, and 6.						

Emissions Unit Information Section 5									
Unit No. 5 - Solid Fuel-Fired Steam Generator									
Co	Continuous Monitor 4								
1.	Parameter Code :	FLOW			<u>-</u>				
2.	CMS Requirement :	RULE							
3.	Monitor Information :								
	Manufacturer:	USI							
	Model Number :	100							
	Serial Number :	9401631							
4.	Installation Date :	-	01-Jul-1994						
5.	Performance Specification	on Test Da	ate:						
6.	Continuous Monitor Com	ment :			_				
	Required per 40 CFR Part		·	•					
	System includes one flow m	onitor.							
			·						

Emissions Unit Information Section5			
Uni	Unit No. 5 - Solid Fuel-Fired Steam Generator		
Continuous Monitor 5			
1.	Parameter Code :	CO2	
2.	CMS Requirement :	RULE	
3.	Monitor Information :	·	
	Manufacturer : Model Number : Serial Number :	Siemens 5E D9-671	
4.	Installation Date :		
5.	. Performance Specification Test Date :		
6.	Continuous Monitor Comment :		
	Required per 40 CFR Part 75. System includes one CO2 monitor, with one backup system shared among Emission Units 4, 5, and 6.		

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

Er	nissions Unit Information Section5_
Ur	nit No. 5 - Solid Fuel-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. 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.
[>	[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 op	eration after F	assified as an EPA major source, and the ebruary 8, 1988, but before March 28, 1988. If ons unit consumes increment.				
[•	• , ,	will begin) initial operation after March 28, 1988. sions unit consumes increment.				
[X	such case, add whether chang	ditional analysis	beyond the so	ssions of the emissions unit are nonzero. In cope of this application, is needed to determine d (or will occur) after the baseline date that may				
3.	Increment Cons	uming/Expandi	ng Code :					
	PM:	U						
	SO2:	Ü						
	NO2 :	Ü						
4.	4. Baseline Emissions :							
	PM:	685.2000	lb/hour	1250.5000 tons/year				
	SO2:	5481.6000		24009.4000 tons/year				
	NO2 :			15456.1000 tons/year				
5.	PSD Comment	:	· .					
	Emission unit is p Hourly emission r			ntory.				

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 5

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I.I.2
I.I.3
I.I.4
A
I.I.6
I.I.7
A
ppendix A
ly
I.I.10
A
I.I.12

13. Identification of Additional Applicable Requirements :

Appendix A

14. Acid Rain Application (Hard-copy Required):

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section6					
Unit No. 6 - Solid Fuel-Fired Steam Generator					
Type 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 Sec	otion	6		
Emissions Unit Description and	<u>l Status</u>			
Description of Emissions Unit Unit No. 6 - Solid Fuel-Fired Stea		This Sect	ion :	
2. ARMS Identification Number	: 006			
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	: 4	146 MW		
10. Incinerator Information :				
Dwell Ter	mperature :		°F	

11. Emissions Unit Comment:

a) Riley Stoker steam powered electric generating (See Process Flow Diagram in Document II.D.3).

seconds

b) No. 2 fuel oil used for ignition during start-up.

Incinerator Afterburner Temperature:

Dwell Time:

- c) Unit may be fired with coal, coal/petroleum coke blend, coal/TDF blend, or coal/petroleum coke/TDF blend.
- d) Fluxing agent may be added to fuel.

- e) Solid fuel may be supplemented with up to 48 gal/mn used oil combustion, including liquid oil and oil-contaminated solids.
- f) Up to 50 gal/min of nonhazardous boiler cleaning waste may be injected into boiler during firing as a routine maintenance procedure.
- g) Unit No. 6 is a "regulated" emissions unit.

Emissions Unit Information Section	6		
Emissions Unit Control Equipment	'		
1. Description :			
Electrostatic Precipitator System			
2. Control Device or Method Code :	10		

Emissions Unit Information Section	6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	3798	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 fuel heat input is 3,798 MMBtu/hr o	on a me	onthly average basis.	

Emissions Unit Information Section	6

Unit No. 6 - Solid Fuel-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

6		
	,	
-	6	

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	6	
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Unit No. 6 - Solid Fuel-Fired Steam Generator

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit	Information	Section	6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Di	agram: CS-006	
2.	Emission Point Type Code:		-
3.	Descriptions of Emission Points Comprising t	his Emissions Unit :	
	Unit No. 6 - Solid Fuel-Fired Steam Generator	•	
4.	ID Numbers or Descriptions of Emission Unit	s with this Emission Poin	t in Common :
	Not applicable		
5.	Discharge Type Code :	V	
6.	Stack Height :	315	feet
7.	Exit Diameter :	17.6	feet
8.	Exit Temperature :	286	°F
9.	Actual Volumetric Flow Rate :	1293764	acfm
10	. Percent Water Vapor :		%
11	. Maximum Dry Standard Flow Rate :	8	dscfm
12	. Nonstack Emission Point Height :	,	feet
13	. Emission Point UTM Coordinates :		.)
	Zone: 17 East (km): 360	000 North (ki	m): 3087.500
14	. Emission Point Comment :		
	·		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6	_			
Unit No. 6 - Solid Fuel-Fired Steam Generator				
Segment Description and Rate : Segment	<u>I</u>			
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):			
Coal, petroleum coke/coal blend, TDF/coal blend,	and coal/petroleum coke/TDF blend burned.			
2. Source Classification Code (SCC): 1-01-0	002-01			
3. SCC Units: Tons Burned (all solid fuels)				
4. Maximum Hourly Rate: 151.40	5. Maximum Annual Rate : 1,326,264.00			
6. Estimated Annual Activity Factor:				
7. Maximum Percent Sulfur: 1.30	8. Maximum Percent Ash: 7.90			
9. Million Btu per SCC Unit: 25	,			
10. Segment Comment :				
 a. No. 2 fuel oil is used for ignition during startup (See Segment 2). b. Fluxing agents may be added to fuel. c. Solid fuel blend may be supplemented with up to 48 gal/min used oil combustion, including liquid oil and oil-contaminated solids (i.e., oil absorbant, oily soil, etc.). d. Up to 50 gal/min of nonhazardous boiler cleaning waste water may be injected into boiler during firing as a routine maintenance activity. e. Maximum hourly rate (Field 4), maximum annual rate (Field 5), and Btu/SCC unit value (Field 9) based on an average heat content of 12,545 Btu/lb. 				

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

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6					
Unit No. 6 - Solid Fuel-Fired Steam Generator					
Segment Description and Rate : Segment2_					
1. Segment Description (Process/Fuel Type an	d Associated Operating Method/Mode) :				
Distillate (No. 2) fuel oil burned in Unit 6 for star	tup.				
2. Source Classification Code (SCC): 1-01-0	005-01				
3. SCC Units: Thousand Gallons Burned (all liq	uid fuels)				
4. Maximum Hourly Rate: 2.16	5. Maximum Annual Rate: 430.00				
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. Startup includes cold start, hot start, bringing an additional mill or cyclone into service, maintenance activities, etc.					
Btu per Scc unit value (Field 9) based on average	fuel heat content of 136,280 Btu/gal.				
Maximum annual rate (Field 5) is estimated based on past practice.					

III. Part 8 - 3

E. POLLUTANT INFORMATION

Emissions Unit Information Section	6
Unit No. 6 - Solid Fuel-Fired Steam Generator	
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 : 9,115.20	lb/hour 39,924.60 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other Em	nissions: to tons/year
8. Emissions Factor : 2.40 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 Emission unit pollutant regulatory code: EL - SO2, PM WP - None	e emissions.

NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants, except 010 for PM10.

Emissions Unit Information Section6					
Pollutant Information Section1_					
Allowable Emissions 1					
1. Basis for Allowable Emissions Code : RULE					
2. Future Effective Date of Allowable Emissions :					
3. Requested Allowable Emissions and Units: 2.40 lb/MMBtu					
4. Equivalent Allowable Emissions :					
9,115.20 lb/hour 39,924.60 tons/year					
5. Method of Compliance :					
Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.					
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :					
Requested allowable emission represents a weekly average, per Specific Condition No. 4 of Permit AO29-203512. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.					
1221 1440 02 270. 100(1)(0)2.tt., 1 14.0.					

Em	Emissions Unit Information Section6_				
Ро	Ilutant Information Section1_				
All	owable Emissions 2				
1.	Basis for Allowable Emissions Code : RULE				
2.	Future Effective Date of Allowable Emissions :				
3.	Requested Allowable Emissions and Units: 10.60 tons/hr				
4.	Equivalent Allowable Emissions :				
	21,220.00 lb/hour 92,856.00 tons/year				
5.	Method of Compliance: Weekly composite fuel sampling and fuel analysis or continuous emissions monitoring, per FDEP Rule 62-296.405(1)(f)1.b., F.A.C.				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): Hourly rate represents a weekly average total emission for Units 1 through 6, per Specific Condition No. 4 of Permit AO29-203512. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.				

E. POLLUTANT INFORMATION

⊏m	issions unit information Section _		-				
Unit	t No. 6 - Solid Fuel-Fired Steam Generator						
<u>Pol</u>	lutant Potential/Estimated Emissions	<u>:</u>	Pollut	ant	2		
1.	Pollutant Emitted :	PM		,			
2.	Total Percent Efficiency of Control :	98.50		%			
3.	Primary Control Device Code :	010					•
4.	Secondary Control Device Code :						
5.	Potential Emissions: 1,139.40	lb/ho	ur		2,079.40	tons/year	
6.	Synthetically Limited? N						
7.	Range of Estimated Fugitive/Other Em	ission	s:		to		tons/year
8.	Emissions Factor: 0.30 Units: lb/MMBtu Reference: Allowable Emiss	vione					
9.	Emissions Method Code :			.			
10.	Calculations of Emissions :						
	See Appendix C				•		
11.	Pollutant Potential/Estimated Emissio	ns Co	mmen	t :			
	Emission factor of 0.3 lb/MMBtu is applicable during soot blowing. Emission factor during non-soot blowing is 0.1 lb/MMBtu. Annual PM emission rate is based on 3 hr/day soot blowing and 21 hr/day non-soot blowing.						

Emissions Unit Information Section6_					
Po	llutant Information Section2_				
Alle	owable Emissions 1				
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 :				
	1,139.40 lb/hour 2,079.40 tons/year				
5.	Method of Compliance :				
	Annual testing using EPA Reference Method 5, 5B, or 17. Option to use three soot blowing runs to demonstrate compliance with non-soot blowing standard is requested.				
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
	 0.3 lb/MMBtu applicable during soot-blowing (3 hrs/day), per Specific Condition No. 5B of Permit AO29-203512. 0.1 lb/MMBtu two hour average during non-soot blowing, per Specific Condition No. 2 of Permit AO29-203512. FDEP Rules 62-210.700(3) and 62-296.405(1)(b), F.A.C. 				

Emissions Unit Information Secti	on <u>6</u>			
Visible Emissions Limitation :	Visible Emission	ıs Limit	tation <u>l</u>	
1. Visible Emissions Subtype :	VE			
2. Basis for Allowable Opacity:	RULE			
3. Requested Allowable Opacity:				
	mal Conditions :	20	%	
Maximum Period of Excess	onal Conditions : Opacity Allowed :	27 6	% min/hour	
4. Method of Compliance :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				-
FDEP Rule 62-296.405(1)(a), F.A.	C.			

Emissions Unit Information Section6_	
Visible Emissions Limitation: Visible Emissions Limitation 2	
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 :	
Continuous Emission Monitoring	
5. Visible Emissions Comment :	
Maximum period of excess opacity allowed for 3 hours in any 24-hour period. FDEP Rule 62-210.700(3), F.A.C.	

Emissions Unit Information Section 6				
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation3				
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 :				
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Excess emission resulting from boiler cleaning and load change.				
Maximum period of excess opacity allowed is 4 six-minute periods during a single 3-hour period.				
FDEP Rule 62-210.700(3), F.A.C.				

Emissions Unit Information Section 6	
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation4_	
Visible Emissions Subtype: VES	
O. Davis for Allowable Operation.	
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 :	
Contonuous Emission Monitoring	
5. Visible Emissions Comment :	
Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.	
	·

Emissions Unit Information Section 6				
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation5				
1. Visible Emissions Subtype : VE				
2. Basis for Allowable Opacity: RULE				
2. Requested Allowable Openity:				
3. Requested Allowable Opacity:				
Normal Conditions : %				
Exceptional Conditions: 100 %				
Maximum Period of Excess Opacity Allowed: 60 min/hour				
4. Method of Compliance :	٥			
Continuous Emission Monitoring				
5. Visible Emissions Comment :				
Excess emission resulting from startup, shutdown, or malfunction.				
Maximum period of excess emission allowed is 2 hours in any 24-hour period.				
FDEP Rule 62-210.700(1), F.A.C.				

En	Emissions Unit Information Section6_			
Un	it No. 6 - Solid Fuel-Fired St	eam Generator		
<u>Co</u>	ntinuous Monitoring Sys	ctem: Continuous Monitor 1		
1.	Parameter Code :	VE		
2.	CMS Requirement :	RULE		
3.	Monitor Information :			
	Manufacturer:	Thermo Environmental Corporation		
	Model Number :	M500		
	Serial Number :	400B-29003-233/		
4.	Installation Date :	01-Jan-1991		
5.	Performance Specification	on Test Date :		
6.	Continuous Monitor Com	ment:		
	<u>-</u>	75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C.		
	System includes one opacity	monitor.		

Emissions Unit Information Section6					
Un	it No. 6 - Solid Fuel-Fired St	eam 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-47689-279			
4.	Installation Date :	01-Jul-1994			
5.	Performance Specification	on Test Date :			
6.	Continuous Monitor Com	iment :			
		75 and FDEP Rule 62-296.405(1)(f)1.b., F.A.C. nonitor, with one backup system shared among Emission Units 4, 5, and 6.			

Em	nissions Unit Information	Section 6
Un	it No. 6 - Solid Fuel-Fired Sta	eam 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-47900-279
4.	Installation Date :	01-Jul-1994
5.	Performance Specification	n Test Date :
6.	Continuous Monitor Com	ment:
	Required per 40 CFR Part 7 System includes one NOx m	75. Sonitor, with one backup system shared among Emission Units 4, 5, and 6.

En	Emissions Unit Information Section6					
Un	it No. 6 - Solid Fuel-Fired St	eam Genera	ator			
<u>Co</u>	ntinuous Monitoring Sys	tem :	Continuous	Monitor _	4	
1.	Parameter Code :	FLOW	-			
2.	CMS Requirement :	RULE				
3.	Monitor Information :					
	Manufacturer : Model Number : Serial Number :	USI 100 9401684		·	·	
4.	Installation Date :		01-Jul-	-1994		
5.	Performance Specification	n Test Da	ate :			
6.	Continuous Monitor Com	ment :	-			
	Required per 40 CFR Part 7 System includes one flow m					

En	Emissions Unit Information Section6			
Un	it No. 6 - Solid Fuel-Fired St	eam Genera	ator	
<u>Co</u>	ntinuous Monitoring Sys	stem :	Continuous Monitor5	
1.	Parameter Code :	CO2		
2.	CMS Requirement :	RULE		
3.	Monitor Information :			
	Manufacturer :	Siemens		
	Model Number :	5E		
	Serial Number :	D0-661		
4.	Installation Date :		01-Jul-1994	
5.	Performance Specification	on Test Da	ate:	
6.	Continuous Monitor Com	ment :		
	Required per 40 CFR Part 'System includes one CO2 n		th one backup system shared among Emission Units 4, 5, and 6.	

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

E	Emissions Unit Information Section6_					
U	nit No. 6 - Solid Fuel-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.					
[]	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 Consu	ıming	ı for Nitroge	n 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	such case, add	litiona es in	al analysis, emissions l	beyond the	emissions of the emissions unit are nonzero. In e scope of this application, is needed to determine red (or will occur) after the baseline date that may		
3.	Increment Consu	uming	g/Expandin	g Code :			
	PM : SO2 : NO2 :	U U U					
4.	Baseline Emission	ons :					
	PM:		1139,4000	lb/hour	2079.4000 tons/year		
	SO2:		9115.2000	lb/hour	39924.6000 tons/year		
	NO2 :				25701.4000 tons/year		
5.	PSD Comment :						

Emission unit is part of baseline PSD emission inventory.

Hourly emission rates are daily 3-hour averages.

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-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 :	III.I.3				
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 :	Appendix A				
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				

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

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

ssions Unit Information Section7
oustion Turbine !
of Emissions Unit Addressed in This Section
] 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	n 7

Emissions Unit Description and Status

1. Description of Emissions Unit	Addressed in This Section :	
Combustion Turbine 1		
2. ARMS Identification Number	: 007	
3. Emissions Unit Status Code :	4. Acid Rain Unit?	5. Emissions Unit Major Group SIC Code :
A	N	49
6. Initial Startup Date :		
7. Long-term Reserve Shutdow	n Date :	
8. Package Unit :		
Manufacturer : Model Number :		
9. Generator Nameplate Rating	: 14 MW	
10. Incinerator Information :		
		conds
11. Emissions Unit Comment :		
a) Combustion turbine rated at b) Combustion Turbine 1 is a '		

<u>En</u>	nissions Unit Operating Capacity		
1.	Maximum Heat Input Rate :	256 mmBtu/hr	
2.	Maximum Incinerator Rate :		,
		lb/hr	tons/day
3.	Maximum Process or Throughput R	Rate:	
	Un	its:	
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :		
	NA		

Emissions Unit Information Section

Combustion Turbine 1

Emissions Unit Information Section	7
Combustion Turbine 1	

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	 •
Combustion Turbine 1	
Rule Applicability Analysis	
Not applicable	

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	7
Combustion Turbine 1	
List of Applicable Regulations	
See Appendix A	

C. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type :		
1. Identification of Point on Plot Plan or Flow Diagram : (CS-007	
2. Emission Point Type Code : 1		
3. Descriptions of Emission Points Comprising this Emissions	Unit:	
Combustion Turbine 1		
4. ID Numbers or Descriptions of Emission Units with this Em	ission Point	in Common :
Not applicable		
5. Discharge Type Code :	V	
6. Stack Height :	35	feet
7. Exit Diameter:	11.0	feet
8. Exit Temperature :	1010	°F
9. Actual Volumetric Flow Rate :	527700	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): 360.000	North (km	n): 3087,500
14. Emission Point Comment :		

Emissions Unit Information Section

Combustion Turbine 1

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 7	_
Combustion Turbine 1	
Segment Description and Rate : Segment	1
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):
No. 2 distillate fuel oil burned in CT No. 1.	
2. Source Classification Code (SCC):	
3. SCC Units: Thousand Gallons Burned (all liqu	uid fuels)
4. Maximum Hourly Rate: 1.89	5. Maximum Annual Rate: 16,513.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur: 0.50	8. Maximum Perçent Ash :
9. Million Btu per SCC Unit: 136	1
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section 7	<u> </u>
Combustion Turbine 1	•
Pollutant Potential/Estimated Emissions :	Pollutant1_
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 : 129.50 lb/h	our 567.40 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other Emissio	ns: to tons/year
8. Emissions Factor: 0.51 Units: Ib/MMBtu Reference: Allowable Emissions	
9. Emissions Method Code: 1	
10. Calculations of Emissions :	
See Appendix C	
11. Pollutant Potential/Estimated Emissions C	omment :
Emission factor based on 0.5 weight percent f	

WP - None NS - NOX, PM10, CO, VOC, HAPS, H106 (HCl), H107 (HF), and SAM No pollution control devices for NS pollutants.

E. POLLUTANT INFORMATION

Emissions officilitation Section	'		
Combustion Turbine 1			
Pollutant Potential/Estimated Emissions	: 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 : 122.10	lb/hour	534.80 to	ns/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other Em	nissions:	to	tons/year
8. Emissions Factor: 0.03 Units: gr/dscf Reference: Allowable Emiss	sions		. •
9. Emissions Method Code:			
10. Calculations of Emissions :			
See Appendix C			
11. Pollutant Potential/Estimated Emission	ons Comment :		
NA		· · •	

Emissions Unit Information Section	7			
Pollutant Information Section 2				
Allowable Emissions 1				
Basis for Allowable Emissions Code	: .	RULE		
2. Future Effective Date of Allowable E	missions :		·	
3. Requested Allowable Emissions and	Units :	0.03	gr/dscf	
4. Equivalent Allowable Emissions :				
122.10	lb/hou	534.80) ton	ıs/year
5. Method of Compliance :				
EPA Reference Method 9 once every 5 ye	ears, per FDEP	Rule 62-297.310(7)	(a)3.b., F.A	.C.
6. Pollutant Allowable Emissions Comn	nent (Desc. of	Related Operatin	g Method/N	
FDEP Rule 62-296.712(2), F.A.C., per S	specific Conditi	on No. 6 of Permit A	AO29 - 25261	5.

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 7
Visible Emissions Limitation 1
1. Visible Emissions Subtype: VE
2. Basis for Allowable Opacity : RULE
3. Requested Allowable Opacity :
Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour
4. Method of Compliance :
EPA Reference Method 9 once every 5 years.
5. Visible Emissions Comment :
FDEP Rule 62-296.712(2), F.A.C., per Specific Condition No. 5 of Permit AO29-252615.

F. VISIBLE EMISSIONS INFORMATION

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

Emi	ssions Unit Information Section7
Com	bustion Turbine 1
<u>PSD</u>	Increment Consumption Determination
1. lı	ncrement 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.
	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 Cons	uming for Nitroge	en 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.					
[paragraph (c) the emissions	of the definition of unit addressed in	of "major sou this section	classified as an EPA major source pursuant to urce of air pollution" in Chapter 62-213, F.A.C., an n commenced (or will commence) construction ssions are zero, and emissions unit consumes		
[emissions unit	began initial ope	ration 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/Expandin	g Code :			
	PM: SO2: NO2:	U U U		,		
4.	Baseline Emissi	ions :				
	PM:	9.6999		42.7000 tons/year		
	SO2 : NO2 :	129.5000	lb/hour	567.4000 tons/year 784.2000 tons/year		
5.	PSD Comment	•		·		
		art of baseline PSI) emission in	ventory		
	Emission unit is p	art of bascinic I SL	, cimpaion ill	volitory.		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section7				
Combustion Turbine 1				
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 :	NA			
5. Compliance Test Report :	NA			
6. Procedures for Startup and Shutdown :	III.I.6			
7. Operation and Maintenance Plan :	NA			
8. Supplemental Information for Construction Permit Application :	NA .			
9. Other Information Required by Rule or Statue :	Appendix A			
Additional Supplemental Requirements for Category I Applications	s Only			
10. Alternative Methods of Operations :	NA			
11. Alterntive Modes of Operation (Emissions Trading):	NA			
12. Enhanced Monitoring Plan :	III.I.12			

13.	Identification of Additional Applicable Requirements : Appendix A
14.	Acid Rain Application (Hard-copy Required) :
	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
	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 8
Solid	Fuel Bunkers (all solid fuel-fired units)
Тур	e of Emissions Unit Addressed in This Section
[] 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.
[X] 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 Information Section	8

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section :						
Solid Fuel Bunkers (all solid fuel-	Solid Fuel Bunkers (all solid fuel-fired units)					
2. ARMS Identification Number	: 008					
3. Emissions Unit Status Code:	4. Acid Rain Unit?		5. Emissions Unit Major Group SIC Code :			
A		N	49			
6. Initial Startup Date :						
7. Long-term Reserve Shutdow	n Date :					
8. Package Unit :						
Manufacturer : Model Number :						
9. Generator Nameplate Rating	: MW					
10. Incinerator Information :			,			
	mperature :	°F				
Dwell Time: seconds Incinerator Afterburner Temperature: °F						
11. Emissions Unit Comment :	11. Emissions Unit Comment :					
The solid fuel bunkers are a "regulated" emissions unit.						

Emissions Unit Information Section	8		
Emissions Unit Control Equipment	1		
Description :		1	
Roto-Clones (Centrifugal Collector - Lov	w Efficiency)		
	•		
2. Control Device or Method Code :	9		

Emissions Unit Information Section	8
Solid Fuel Bunkers (all solid fuel-fired units)	

Emissions Unit Operating Capacity

Maximum Heat Input Rate :	mmBtu/hr	,
Maximum Incinerator Rate :		
	lb/hr	tons/day
Maximum Process or Throughput Rate :	1600	
Units :	ton/hour/bunker	
Maximum Production Rate :		
Units:		
Operating Capacity Comment :		
NA .		
	Maximum Incinerator Rate : Maximum Process or Throughput Rate : Units : Maximum Production Rate : Units : Operating Capacity Comment :	Maximum Incinerator Rate : Ib/hr

Emissions Unit Information Section	8

Solid Fuel Bunkers (all solid fuel-fired units)

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	8		
Solid Fuel Bunkers (all solid fuel-fired units)		,	
Rule Applicability Analysis			
Not applicable			

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	8	
Solid Fuel Bunkers (all solid fuel-fired units)		
List of Applicable Regulations		

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Solid	Solid Fuel Bunkers (all solid fuel-fired units)						
<u>Emi</u>	ssion Poir	nt Description	and Type:				
1.	Identificati	on of Point on	Plot Plan or Flo	ow Diagram :	FH-036 thru F	H-041	
2.	Emission I	Point Type Co	de: 3				
3.	Description	ns of Emissior	Points Compri	sing this Emiss	ions Unit:		
	Coal Handli	ng - Conveyors	H1/H2 to Convey	yors J1/J2, Conve	yors J1/J2 to Bu	ınkers 1	-6
4.	ID Numbe	rs or Description	ons of Emissior	Units with this	Emission Poin	t in Co	mmon :
]	Not applicat	ole					
5.	Discharge	Type Code			V		
6.	Stack Heig	ght:			155	feet	
7.	Exit Diame	ter:			1.00	feet	
8.	Exit Tempe	erature :			77	°F	
9.	Actual Volu	umetric Flow R	late:		9,600	acfm	,
10.	Percent V	Vater Vapor :				%	
11.	Maximum	Dry Standard	Flow Rate :		9,337	dscfm	
12.	Nonstack	Emission Poir	nt Height :			feet	
13.	Emission	Point UTM Co	oordinates :				
	Zone :	17	East (km):	360.000	North (km	n) :	3,087.500
14.	Emission	Point Comme	nt :				-

Stack data is for each Roto-Clone. Actual volumetric flow rate for FH-040 is 5,400 acfm.

Emissions Unit Information Section

C. EMISSION POINT (STACK/VENT) INFORMATION

Solid Fuel Bunkers (all solid fuel-fired units)	•	
Emission Point Description and Type :		
1. Identification of Point on Plot Plan or Flow Diagram : FH-036	thru F	H-041
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Comprising this Emissions Unit	:	
Coal Handling - Conveyors H1/H2 to Conveyors J1/J2, Conveyors J1/J2	to Bu	inkers 1-6
4. ID Numbers or Descriptions of Emission Units with this Emission	n Poin	t in Common :
Not applicable		
5. Discharge Type Code	V	
6. Stack Height :	155	feet
7. Exit Diameter :	1.00	feet
8. Exit Temperature :	77	°F
9. Actual Volumetric Flow Rate :	9,600	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	9,337	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates :		
Zone: 17 East (km): 360.000 Nor	th (km	3,087.500
14. Emission Point Comment :		
Stack data is for each Roto-Clone. Actual volumetric flow rate for FH-	040 is	5,400 acfm.

Emissions Unit Information Section

D. SEGMENT (PROCESS/FUEL) INFORMATION

En	issions Unit Information Section	8	
So	id Fuel Bunkers (all solid fuel-fired units)		
<u>Se</u>	gment Description and Rate: Segmen	nt <u>1</u>	
1.	Segment Description (Process/Fuel Type	and Associated Operating Method	/Mode) :
	Coal Handling		
2.	Source Classification Code (SCC): 3-0	05-101-03	
3.	SCC Units: Tons Transferred Or Handled	•	
4.	Maximum Hourly Rate: 9,600.00	5. Maximum Annual Rate :	84,096,000.00
6.	Estimated Annual Activity Factor:	· .	
7.	Maximum Percent Sulfur :	8. Maximum Percent Ash :	
9.	Million Btu per SCC Unit :		
10	. Segment Comment :		

E. POLLUTANT INFORMATION

Emissions Unit Information Section	8			
Solid Fuel Bunkers (all solid fuel-fired units)				
Pollutant Potential/Estimated Emissions	s: Polluta	ant <u>1</u>	•	
1. Pollutant Emitted :	PM			
2. Total Percent Efficiency of Control :	75.00	%		
3. Primary Control Device Code :	009		-	
4. Secondary Control Device Code :				
5. Potential Emissions : 0.19	lb/hour	0.99	tons/year	
6. Synthetically Limited? N				
7. Range of Estimated Fugitive/Other Em	nissions:		to	tons/year
8. Emissions Factor : 0.19 Units : lb/hour, each Reference : Allowable Emiss	sions			
9. Emissions Method Code: 3			,	
10. Calculations of Emissions :			·	
11. Pollutant Potential/Estimated Emission	ons Comment	:		
Potential emission set equal to allowable Emission unit pollutant regulatory code: EL - PM WP - None	emission.			

Em	Emissions Unit Information Section8_					
	Pollutant Information Section 1 Allowable Emissions 1					
1.	Basis for Allowable Emissions Code : RULE					
2.	Future Effective Date of Allowable Emissions :					
3.	Requested Allowable Emissions and Units :					
4.	Equivalent Allowable Emissions :					
	0.19. lb/hour 0.99 tons/year					
5.	Method of Compliance :					
	EPA Reference Method 9 once every 5 years, per FDEP Rule 62-297.310(7)(c), F.A.C.					
6.	Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :					
	FDEP Rule 62-296.700(2)(c), F.A.C., per Specific Condition No. 2 of Permit AO29-250139.					

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 8			
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation 1			
1. Visible Emissions Subtype: VE			
2. Basis for Allowable Opacity : RULE			
3. Requested Allowable Opacity:			
Normal Conditions: 5 %			
Exceptional Conditions : %			
Maximum Period of Excess Opacity Allowed : min/hour			
4. Method of Compliance :			
EPA Reference Method 9 once every 5 years.			
5. Visible Emissions Comment :			
FDEP Rule 17-297.310(7)(c), F.A.C., per Specific Condition No.6 of Permit AO29-250139.			

F. VISIBLE EMISSIONS INFORMATION

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

Ε	missions Unit Information Section8_
S	olid Fuel Bunkers (all solid fuel-fired units)
<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. 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	j for Nitroge	n 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 addresse emissions unit bega so, baseline emission	n initial ope	ration after F	ebruary 8, 1988	B, but before Ma	
[] For any facility, the of If so, baseline emiss		- '		-	
[X	[] None of the above a such case, additional whether changes in consume or expand	al analysis, l emissions l	beyond the s	cope of this ap	olication, is need	ded to determine
3.	Increment Consumin	g/Expanding	g Code :			
	PM: U SO2: NO2:					
4.	Baseline Emissions :				· ·	
	PM : SO2 : NO2 :	0.1700 0.0000	lb/hour lb/hour		0.9900 tons/yea 0.0000 tons/yea 0.0000 tons/yea	r
5.	PSD Comment :					
	Emission unit is part of	baseline PSE	emission inve	ntory.		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions unit information Section 8					
Solid Fuel Bunkers (all solid fuel-fired units)					
Supplemental Requirements for All Applications					
1. Process Flow Diagram :	II.D.3				
2. Fuel Analysis or Specification :	NA				
3. Detailed Description of Control Equipment :	III.I.3				
4. Description of Stack Sampling Facilities :	NA				
5. Compliance Test Report :	NA .				
6. Procedures for Startup and Shutdown :	NA				
7. Operation and Maintenance Plan :	III.I.7				
8. Supplemental Information for Construction Permit Application :	NA				
9. Other Information Required by Rule or Statue :	Appendix A				
Additional Supplemental Requirements for Category I Applications Only					
10. Alternative Methods of Operations :	NA				
11. Alterntive Modes of Operation (Emissions Trading):	NA				
12. Enhanced Monitoring Plan :	NA				
·					

13. Identification of Additional Applicable Requirements :

Appendix A

14. Acid Rain Application (Hard-copy Required):

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 9	
Solid Fuel Handling and Storage Sources (all sources)	
Type of Emissions Unit Addressed in This Section	
[] 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 whas 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 producti unit, or activity, which also has other individually-regulated emission points.	on
[] 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 lease one definable emission point (stack or vent) but may also produce fugitive emissions on	
[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or material process or production units and activities which produce fugitive emissions only.	iore

Emissions Unit Description and Status

1. Description of Emissions Unit	Addressed in This Se	ection :	
Solid Fuel Handling and Storage	Sources (all sources)		•
2. ARMS Identification Number	: 009		
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Emissions Unit Major Group SIC Code :
A		N	49
6. Initial Startup Date :			
7. Long-term Reserve Shutdow	n Date :		
8. Package Unit :			
Manufacturer : Model Number :			
9. Generator Nameplate Rating	: MV	V	·
10. Incinerator Information :	•		
	mperature :	°F	
D Incinerator Afterburner Te	well Time : mperature :	seco °F	onds
11. Emissions Unit Comment :			
Fugitive emissions associated of This emission unit addresses for FH-044. Fluxing agent may also be han The solid fuel handling and stores.	ngitive emission sources dled by the equipment w	ithin this e	

Emissions Unit Information Section	9		
Emissions Unit Control Equipment	1		
1. Description :			
Processed Enclosed			
		,	
2. Control Device or Method Code :	54		

Emissions Unit Information Section	9	
Emissions Unit Control Equipment	2	
1. Description :		
Dust Suppressant Sprays		·
2. Control Device or Method Code :	62	

Emissions Unit Information Section	9
Solid Fuel Handling and Storage Sources (all sources)	

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate :	mmBtu/hr	,
			,
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :	2850000	
	Units:	tons/year	
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :		
	Solid fuel handling rate.		

Emissions Ur	nit Information	Section	9

Solid Fuel Handling and Storage Sources (all sources)

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

B. EMISSIONS UNIT REGULATIONS

9				
sources)				
		,	-	
-	sources)			

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit Information Section	9

Solid Fuel Handling and Storage Sources (all sources)

List of Applicable Regulations

See Appendix A

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type:	
1. Identification of Point on Plot Plan or Flow Diagran	n: See Document II.D.2
2. Emission Point Type Code: 3	-
3. Descriptions of Emission Points Comprising this E	missions Unit :
FH-001- Fuel Handling - Barge to East Clamshell	
4. ID Numbers or Descriptions of Emission Units with	this Emission Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment :	

Emission Point Description and Type:			
1. Identification of Point on Plot Plan or Flo	ow Diagram :	See Document II.	D.2
2. Emission Point Type Code: 3			
3. Descriptions of Emission Points Compris	sing this Emiss	ions Unit :	
FH-002 - Fuel Handling - Barge to West Clar	mshell		
4. ID Numbers or Descriptions of Emission	Units with this	Emission Point in	Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		fe	et
7. Exit Diameter :		fe	et
8. Exit Temperature :		77 °F	=
9. Actual Volumetric Flow Rate :		а	cfm
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow Rate :		d	scfm
12. Nonstack Emission Point Height:		f€	eet
13. Emission Point UTM Coordinates :	-		
Zone: 17 East (km):	360.000	North (km):	3,087.500
14. Emission Point Comment :			
	,		

Emissions Unit Information Section

Solid Fuel Handling and Storage Sources (all sources)

Solid	d Fuel Handling and Storage Sources (all sources)		
<u>Emi</u>	ssion Point Description and Type :		
1.	Identification of Point on Plot Plan or Flow Diagram : See Doc	ument II.D	.2
2.	Emission Point Type Code : 3		
3.	Descriptions of Emission Points Comprising this Emissions Unit	:	
	FH-003 - Fuel Handling - Barge to Continuous Unloader		
4.	ID Numbers or Descriptions of Emission Units with this Emission	n Point in (Common :
]	Not applicable		
5.	Discharge Type Code	F	
6.	Stack Height :	fee	t
7.	Exit Diameter :	fee	t
8.	Exit Temperature :	. 77 °F	
9. ,	Actual Volumetric Flow Rate :	acf	m
10.	Percent Water Vapor :	%	
11.	Maximum Dry Standard Flow Rate :	dsc	efm .
12.	Nonstack Emission Point Height :	fee	t
13.	Emission Point UTM Coordinates :		
	Zone: 17 East (km): 360.000 Nor	rth (km):	3,087.500
14.	Emission Point Comment :		

Solid	I Fuel Handling and Storage	Sources (all sour	rces)			
<u>Emi</u>	ssion Point Description	and Type:				
1.	Identification of Point on	Plot Plan or Flo	ow Diagram :	See Document	II.D.2	
2.	Emission Point Type Co	de: 3				
3.	Descriptions of Emission	n Points Compri	sing this Emissi	ons Unit :		
	FH-004 - Fuel Handling - E	ast Clamshell to I	East Hopper			
4.	ID Numbers or Description	ons of Emission	Units with this	Emission Poin	t in Co	mmon :
1	Not applicable					
5.	Discharge Type Code	•	-	F		
6.	Stack Height :			1	feet	
7.	Exit Diameter :				feet	
8.	Exit Temperature :			77	°F	
9.	Actual Volumetric Flow R	late :			acfm	
10.	Percent Water Vapor :				%	
11.	Maximum Dry Standard	Flow Rate :			dscfm	
12.	Nonstack Emission Poir	nt Height :	•		feet	
13.	Emission Point UTM Co	ordinates :			٠	
	Zone: 17	East (km):	360.000	North (km):	3,087.500
14.	Emission Point Comme	nt :		_		-

Solid	Fuel Handling and Storage S	ources (all sourc	es)			
<u>Emi</u>	ssion Point Description a	nd Type :				
1.	Identification of Point on P	Plot Plan or Flow	w Diagram :	See Document	II.D.2	
2.	Emission Point Type Code	9: 3				
3.	Descriptions of Emission F	Points Comprisi	ng this Emissio	ons Unit :		
]	FH-005 - Fuel Handling - Wes	st Clamshell to V	Vest Hopper			
4.	ID Numbers or Description	s of Emission	Units with this E	Emission Point	in Co	ommon :
1	Not applicable					
5.	Discharge Type Code			F		
6.	Stack Height :			·	feet	
7. E	Exit Diameter :		·		feet	
8. E	Exit Temperature :			77	°F	
9. <i>A</i>	Actual Volumetric Flow Rat	te:			acfm	
10.	Percent Water Vapor :				%	
11.	Maximum Dry Standard F	low Rate :			dscfn	n
12.	Nonstack Emission Point	Height :			feet	
13.	Emission Point UTM Coor	rdinates :		-		
	Zone: 17 E	East (km) :	360.000	North (km):	3,087.500
14.	Emission Point Comment	:				

Solid Fuel Handling and Storage Sources (all sources)	es)	
Emission Point Description and Type:		
1. Identification of Point on Plot Plan or Flow	v Diagram : See Docu	ment II.D.2
2. Emission Point Type Code: 3		· .
3. Descriptions of Emission Points Compris	ng this Emissions Unit :	
FH-006 - Fuel Handling - Continuous Unloade	r to Conveyor A	•
4. ID Numbers or Descriptions of Emission	Jnits with this Emission	Point in Common :
Not applicable		
5. Discharge Type Code		F .
6. Stack Height :		feet
7. Exit Diameter :		feet
8. Exit Temperature :	,	77 °F
9. Actual Volumetric Flow Rate :		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):	360.000 Nort	h (km): 3,087.500
14. Emission Point Comment:	<u> </u>	

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type :	
1. Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2
2. Emission Point Type Code : 3	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
FH-007 - Fuel Handling - Conveyor A to Continuous Feeder	
4. ID Numbers or Descriptions of Emission Units with this Emission Poin	t in Common :
Not applicable	
5. Discharge Type Code F	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature : 77	°F
9. Actual Volumetric Flow Rate :	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): 360.000 North (km	3,087.500
14. Emission Point Comment :	

Solid	Fuel Handling and Storage Sources (all sources)	
<u>Emi</u>	ssion Point Description and Type :	
1.	Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2
2.	Emission Point Type Code : 3	
3.	Descriptions of Emission Points Comprising this Emissions Unit :	
	FH-008 - Fuel Handling - East Hopper to Conveyor B	
4.	ID Numbers or Descriptions of Emission Units with this Emission Point	in Common :
1	Not applicable	
5.	Discharge Type Code F	
6.	Stack Height :	feet
7.	Exit Diameter :	feet
8.	Exit Temperature : 77	°F
9. /	Actual Volumetric Flow Rate :	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): 360,000 North (km): 3,087.500
14.	Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)		
Emission Point Description and Type:		
1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2	
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Comprising this Emiss	sions Unit :	
FH-009 - Fuel Handling -West Hopper to Conveyor B		
4. ID Numbers or Descriptions of Emission Units with this	s Emission Point in Common :	-
Not applicable		
5. Discharge Type Code	F	
6. Stack Height:	feet	
7. Exit Diameter:	feet	
8. Exit Temperature :	77 °F	
9. Actual Volumetric Flow Rate :	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): 360,000	North (km): 3,087.500	
14. Emission Point Comment :		

Emissions Unit Information Section					9

Solid Fuel Handling and Storage Sources (all sources)

Emission Point Description and Type:

1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissi	ons Unit :
FH-011 - Fuel Handling - Conveyor B to Conveyor C	
4. ID Numbers or Descriptions of Emission Units with this	Emission Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height:	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment :	en e

Solid Fuel Handling and Storage Sources (all se	ources)		
Emission Point Description and Type:			
1. Identification of Point on Plot Plan or	Flow Diagram :	See Document I	I.D.2
2. Emission Point Type Code :	3		
3. Descriptions of Emission Points Com	orising this Emissi	ions Unit :	
FH-012 - Fuel Handling - Conveyor C to C	Conveyor D1/D2		
4. ID Numbers or Descriptions of Emissi	on Units with this	Emission Point	in Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :			feet
7. Exit Diameter:			feet
8. Exit Temperature :		. 77	°F
9. Actual Volumetric Flow Rate :			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):	360.000	North (km)	3,087.500
14. Emission Point Comment:			

Soli	d Fuel Handling and Storage Sources (all sources)		
Em	ission Point Description and Type :		
1.	Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2	
2.	Emission Point Type Code: 3		
3.	Descriptions of Emission Points Comprising this Emissions Unit:		
	FH-013 - Fuel Handling - Rail Car to Hopper		
4.	ID Numbers or Descriptions of Emission Units with this Emission Point	t in Co	ommon :
	Not applicable		
5.	Discharge Type Code F		
6.	Stack Height :	feet	
7.	Exit Diameter :	feet	
8.	Exit Temperature : 77	°F	
9.	Actual Volumetric Flow Rate :	acfm	
10.	Percent Water Vapor :	%	
11.	. Maximum Dry Standard Flow Rate :	dscfn	n
12.	Nonstack Emission Point Height :	feet	
13.	Emission Point UTM Coordinates :		
	Zone: 17 East (km): 360.000 North (km	1):	3,087.500
14.	Emission Point Comment :		

Solid Fuel Handling and Storage Sources (all sources)			
Emission Point Description and Type:			
1. Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2		
2. Emission Point Type Code : 3			
3. Descriptions of Emission Points Comprising this Emissions Unit :			
FH-014 - Fuel Handling - Hopper to Conveyor L			
4. ID Numbers or Descriptions of Emission Units with this Emission Poin	t in Common :		
Not applicable			
5. Discharge Type Code F			
6. Stack Height:	feet		
7. Exit Diameter :	feet		
8. Exit Temperature : 77	°F		
9. Actual Volumetric Flow Rate :	acfm		
10. Percent Water Vapor :	%		
11. Maximum Dry Standard Flow Rate :	dscfm		
12. Nonstack Emission Point Height :	feet		
13. Emission Point UTM Coordinates :			

360.000

North (km): 3,087.500

East (km):

Zone: 17

14. Emission Point Comment:

Solid Fuel Handling and Storage Sources (all sources)
Emission Point Description and Type:	
1. Identification of Point on Plot Plan or Flow	Diagram : See Document II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising	this Emissions Unit :
FH-015 -Fuel Handling - Conveyor L to Conveyor	or D1/D2
4. ID Numbers or Descriptions of Emission Ur	nits with this Emission Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 3	60.000 North (km): 3,087.500
14. Emission Point Comment:	

Emissions Unit Information Section	9
Solid Fuel Handling and Storage Sources (all so	urces)

Emission Point Description and Type:

1. Identification of Point on Plot Plan or Flow Diagram:	see Document II.D.2
2. Emission Point Type Code : 3	
3. Descriptions of Emission Points Comprising this Emission	ns Unit :
FH-016 - Fuel Handling - Conveyor D1 to Conveyor M1	
4. ID Numbers or Descriptions of Emission Units with this Er	mission Point in Common:
Not applicable	,
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type:	
1. Identification of Point on Plot Plan or Flow Diagram : See Docum	nent II.D.2
2. Emission Point Type Code : 3	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
FH-017 - Fuel Handling - Conveyor D2 to Conveyor M2	
4. ID Numbers or Descriptions of Emission Units with this Emission F	Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000 North	(km): 3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)				
Emission Point Description and Type:				
1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2			
2. Emission Point Type Code: 3				
3. Descriptions of Emission Points Comprising this Emissions Unit :				
FH-018 - Fuel Handling - Conveyor M1 to Conveyor E1	FH-018 - Fuel Handling - Conveyor M1 to Conveyor E1			
4. ID Numbers or Descriptions of Emission Units with this	Emission Point in Common:			
Not applicable				
5. Discharge Type Code	F			
6. Stack Height:	feet			
7. Exit Diameter :	feet			
8. Exit Temperature :	77 °F			
9. Actual Volumetric Flow Rate :	acfm			

360.000

%

dscfm

feet

3,087.500

North (km):

East (km):

10. Percent Water Vapor:

Zone:

11. Maximum Dry Standard Flow Rate:

12. Nonstack Emission Point Height:

13. Emission Point UTM Coordinates:

17

14. Emission Point Comment:

Solid Fuel Handling and Storage Sources (all sources)			
Emission Point Description and Type:			
1. Identification of Point on Plot Plan or Flow Diagram : See Docum	ment II.D.2		
2. Emission Point Type Code : 3			
3. Descriptions of Emission Points Comprising this Emissions Unit:			
FH-019 - Fuel Handling - Conveyor M2 to Conveyor E2			
4. ID Numbers or Descriptions of Emission Units with this Emission F	Point in Common :		
Not applicable			
5. Discharge Type Code	F		
6. Stack Height:	feet		
7. Exit Diameter :	feet		
8. Exit Temperature :	77 °F		
9. Actual Volumetric Flow Rate :	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): 360.000 North	(km): 3,087.500		
14. Emission Point Comment :			

Solid Fuel Handling and Storage Sources (all so	ources)		
Emission Point Description and Type :			
1. Identification of Point on Plot Plan or	Flow Diagram :	See Document II.D	.2
2. Emission Point Type Code :	3	-,	
3. Descriptions of Emission Points Comp	orising this Emissi	ons Unit :	
FH-020 - Fuel Handling - Conveyor E1 to	Storage Pile	•	
4. ID Numbers or Descriptions of Emissi	on Units with this	Emission Point in	Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		fee	t
7. Exit Diameter :		fee	t
8. Exit Temperature :		77 °F	
9. Actual Volumetric Flow Rate :		act	m
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow Rate :		dso	efm
12. Nonstack Emission Point Height:		fee	t
13. Emission Point UTM Coordinates :		_	
Zone: 17 East (km):	360.000	North (km):	3,087.500
14. Emission Point Comment :			

Solid Fuel Handling and Storage Sources (all sources)		
Emission Point Description and Type:		
1. Identification of Point on Plot Plan or Flow Diagr	ram : See Document II.D.2	
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Comprising this	Emissions Unit:	
FH-021 - Fuel Handling - Conveyor E2 to Storage Pile		
4. ID Numbers or Descriptions of Emission Units w	ith this Emission Point in Common :	
Not applicable		
5. Discharge Type Code	F	
6. Stack Height :	feet	
7. Exit Diameter :	feet	
8. Exit Temperature :	77 °F	
9. Actual Volumetric Flow Rate :	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): 360.00	0 North (km): 3,087.500	
14. Emission Point Comment:		

Solid Fuel Handling and Storage Sources (all sources)	i
Emission Point Description and Type:	
1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emis	ssions Unit:
FH-022 - Fuel Storage - North Storage Pile	
4. ID Numbers or Descriptions of Emission Units with the	is Emission Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height:	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)			
Emission Point Description and Type :			
1. Identification of Point on Plot Plan or Flow Diagram : See De	ocument II.D.2		
2. Emission Point Type Code: 3	_		
3. Descriptions of Emission Points Comprising this Emissions Un	it:		
FH-023a - Fuel Storage - East Portion of South Storage Pile			
4. ID Numbers or Descriptions of Emission Units with this Emissi	on Point in Commo	on:	
Not applicable			
5. Discharge Type Code	F		
6. Stack Height :	feet		
7. Exit Diameter :	feet		
8. Exit Temperature :	77 °F		
9. Actual Volumetric Flow Rate :	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): 360.000 N	orth (km): 3,08	7.500	
14. Emission Point Comment :			

<u>Em</u>	ission Point Description and Type :		
1.	Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2	
2.	Emission Point Type Code: 3		
3.	Descriptions of Emission Points Comprising this Emissions Unit:		
	FH-023b - Fuel Storage - West Portion of South Storage Pile		
4.	ID Numbers or Descriptions of Emission Units with this Emission Poin	t in Co	ommon :
	Not applicable		•
5.	Discharge Type Code F		
6.	Stack Height:	feet	
7.	Exit Diameter :	feet	
8.	Exit Temperature : 77	°F	
9.	Actual Volumetric Flow Rate :	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): 360,000 North (km	ı) :	3,087.500
14.	Emission Point Comment :		
_	<u> </u>		

Emissions Unit Information Section

Solid Fuel Handling and Storage Sources (all sources)

Emissions Unit Information Section	9		
Solid Fuel Handling and Storage Sources (al	l sources)		
Emission Point Description and Type	<u>:</u>		
1. Identification of Point on Plot Plan	or Flow Diagram :	See Document II.D.	2
2. Emission Point Type Code :	3		
3. Descriptions of Emission Points Co	mprising this Emissi	ons Unit :	
FH-024 - Fuel Handling - Underground	Reclaim System to Co	nveyor F1	
4. ID Numbers or Descriptions of Emis	ssion Units with this	Emission Point in (Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		feet	t
7. Exit Diameter :		feet	,i
8. Exit Temperature :	,	77 °F	
9. Actual Volumetric Flow Rate :		acfi	n
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow Rate	:	dsc	fm
12. Nonstack Emission Point Height :		feet	<u> </u>
13. Emission Point UTM Coordinates :	_		
Zone: 17 East (km)	: 360.000	North (km):	3,087.500
14. Emission Point Comment :			

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type:	
1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emis	ssions Unit :
FH-025 - Fuel Handling - Underground Reclaim System to	Conveyor F4
4. ID Numbers or Descriptions of Emission Units with th	is Emission Point in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment:	

Solid Fuel Handling and Storage Sources (all sources)							
<u>Emissi</u>	on Point Descript	ion and Type :					
1. Ide	ntification of Point	on Plot Plan or F	low Diagram :	See Document II.D.2			
2. Em	ission Point Type	Code:	3				
3. De	. Descriptions of Emission Points Comprising this Emissions Unit :						
FH-	FH-026 - Fuel Handling - Underground Reclaim System to Conveyor F3						
4. ID	4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :						
Not	applicable						
5. Dis	charge Type Code	•		. F			
6. Sta	ck Height :			feet			
7. Exit	Diameter :		-	feet			
8. Exit	Temperature :	_		<i>77</i> . °F			
9. Act	ıal Volumetric Flov	w Rate :		acfm			
10. Pe	rcent Water Vapo	r:		%			
11. Ma	ximum Dry Stand	ard Flow Rate :		dscfr	m		
12. No	nstack Emission F	Point Height :		feet	-		
13. En	nission Point UTM	Coordinates :			_		
Zo	ne: 17	East (km):	360.000	North (km):	3,087.500		
14. Er	nission Point Com	ment:					
				1			

Solid Fuel Handling and Storage Sources (all sources)						
Emission Point Description and Type :	·					
1. Identification of Point on Plot Plan or Flow Diagram : See De	ocument II.D.2					
2. Emission Point Type Code : 3						
3. Descriptions of Emission Points Comprising this Emissions Unit:						
FH-027 - Fuel Handling - Underground Reclaim System to Conveyor F2						
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :						
Not applicable	, 					
5. Discharge Type Code	F					
6. Stack Height :	feet					
7. Exit Diameter :	feet					
8. Exit Temperature :	77 °F					
9. Actual Volumetric Flow Rate :	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): 360.000 N	orth (km): 3,087.500					
14. Emission Point Comment :	,					

Solid Fuel Handling and Storage Sources (all sources)							
Emission Point Description and Type:							
1. Identification of Point on Plot Plan or Flow	v Diagram : See Document	II.D.2					
2. Emission Point Type Code: 3	-						
3. Descriptions of Emission Points Comprising this Emissions Unit :							
FH-028 - Fuel Handling - Conveyor F1 to Conveyor G1/G2							
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :							
Not applicable		·					
5. Discharge Type Code	F						
6. Stack Height :		feet					
7. Exit Diameter :		feet					
8. Exit Temperature :	77	°F					
9. Actual Volumetric Flow Rate :		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):	360.000 North (km	n): 3,087.500					
14. Emission Point Comment :	,						

Emiss	sion Point Description and Type :		
1. Id	entification of Point on Plot Plan or Flow Diagram : See Documen	t II.D.2	
2. E	mission Point Type Code: 3		
3 . D	escriptions of Emission Points Comprising this Emissions Unit:		
Fŀ	1-029 - Fuel Handling - Conveyor F4 to Conveyor G1/G2		
4. IC	Numbers or Descriptions of Emission Units with this Emission Poil	nt in C	ommon :
No	t applicable		
5. D	ischarge Type Code F		
6. S	tack Height :	feet	
7. Ex	it Diameter :	feet	
8. Ex	it Temperature : 77	°F	
9. Ac	tual Volumetric Flow Rate :	acfm	1
10. F	Percent Water Vapor :	%	
11. N	faximum Dry Standard Flow Rate :	dscfi	n
12. N	Ionstack Emission Point Height :	feet	, ,
13. E	mission Point UTM Coordinates :		
Z	one: 17 East (km): 360.000 North (ki	m) :	3,087.500
14. E	mission Point Comment :		
	<u> </u>		

Emissions Unit Information Section

Solid Fuel Handling and Storage Sources (all sources)

Solid Fuel Handling and Storage Sources (all sources)	•
Emission Point Description and Type:	•
1. Identification of Point on Plot Plan or Flow Diagram :	See Document II.D.2
2. Emission Point Type Code: 3	_
3. Descriptions of Emission Points Comprising this Emiss	sions Unit :
FH-030 - Fuel Handling - Conveyor F3 to Conveyor G1/G2	
4. ID Numbers or Descriptions of Emission Units with this	Emission Point in Common:
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000	North (km): 3,087.500
14. Emission Point Comment:	

Solid Fuel Handling and Storage Source	es (all sources)		
Emission Point Description and T	ype :		
1. Identification of Point on Plot P	lan or Flow Diagram :	See Document II.D	.2
2. Emission Point Type Code :	3		
3. Descriptions of Emission Points	s Comprising this Emiss	ions Unit :	
FH-031 - Fuel Handling - Conveyor	r F2 to Conveyor G1/G2		
4. ID Numbers or Descriptions of	Emission Units with this	Emission Point in	Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		· fee	t
7. Exit Diameter :		fee	t
8. Exit Temperature :		77 °F	
9. Actual Volumetric Flow Rate :		act	m
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow F	Rate :	dso	cfm
12. Nonstack Emission Point Heig	ht:	fee	t
13. Emission Point UTM Coordina	tes:		
Zone: 17 East	(km): 360.000	North (km):	3,087.500
14. Emission Point Comment :			

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type :	
1. Identification of Point on Plot Plan or Flow Diagram : See Documen	t II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit:	·
FH-032 - Fuel Handling - Conveyor G1 to Hammermill Crusher 1	
4. ID Numbers or Descriptions of Emission Units with this Emission Poin	nt in Common :
Not applicable	
5. Discharge Type Code F	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature : 77	° F
9. Actual Volumetric Flow Rate :	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): 360.000 North (ki	m): 3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)		
Emission Point Description and Type:		
1. Identification of Point on Plot Plan or Flow D	Diagram : See Document II.D.2	
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Comprising	this Emissions Unit :	
FH-033 - Fuel Handling - Conveyor G2 to Hamme	ermill Crusher 2	
4. ID Numbers or Descriptions of Emission Uni	its with this Emission Point in Common :	
Not applicable		
5. Discharge Type Code	F	
6. Stack Height :	feet	
7. Exit Diameter :	feet	
8. Exit Temperature :	77 °F	
9. Actual Volumetric Flow Rate :	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): 36	North (km): 3,087.500	
14 Emission Point Comment:	-	_

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type :	
1. Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit:	
FH-034 - Fuel Handling - Hammermill Crusher 1 to Conveyor H1	
4. ID Numbers or Descriptions of Emission Units with this Emission Point	t in Common :
Not applicable	
5. Discharge Type Code F	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature : 77	°F
9. Actual Volumetric Flow Rate :	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): 360.000 North (km	3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type :	
Identification of Point on Plot Plan or Flow Diagram : See Docume	ent II.D.2
2. Emission Point Type Code : 3	
3. Descriptions of Emission Points Comprising this Emissions Unit:	-
FH-035 - Fuel Handling - Hammermill Crusher 2 to Conveyor H2	
4. ID Numbers or Descriptions of Emission Units with this Emission Po	pint in Common :
Not applicable	
5. Discharge Type Code	F
6. Stack Height :	feet
7. Exit Diameter:	feet
8. Exit Temperature :	77 °F
9. Actual Volumetric Flow Rate :	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): 360.000 North (km): 3,087.500
14. Emission Point Comment :	·

Solid Fuel Handling and Storage Sources (all sour	ces)		
Emission Point Description and Type:			
1. Identification of Point on Plot Plan or Flo	w Diagram :	See Document II	I.D.2
2. Emission Point Type Code: 3	_		
3. Descriptions of Emission Points Compris	sing this Emissi	ons Unit :	
FH-042 - Fuel Handling - Conveyor D1 to Co	nveyor G1/G2 (I	By-Pass Storage)	
4. ID Numbers or Descriptions of Emission	Units with this	Emission Point	in Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		1	feet
7. Exit Diameter :		1	feet
8. Exit Temperature :		77	°F
9. Actual Volumetric Flow Rate :		;	acfm
10. Percent Water Vapor :		,	%
11. Maximum Dry Standard Flow Rate :		(dscfm
12. Nonstack Emission Point Height:		1	feet
13. Emission Point UTM Coordinates :			
Zone: 17 East (km):	360.000	North (km)	: 3,087.500
14 Emission Point Comment:			

Solid Fuel Handling and Storage Sources (all sources)	
Emission Point Description and Type :	
1. Identification of Point on Plot Plan or Flow Diagram : See Document	II.D.2
2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit:	
FH-043 - Fuel Handling - Conveyor D2 to Conveyor G1/G2 (By-Pass Storage))
4. ID Numbers or Descriptions of Emission Units with this Emission Poin	t in Common :
Not applicable	
5. Discharge Type Code F	
6. Stack Height :	feet
7. Exit Diameter :	feet
8. Exit Temperature : 77	°F
9. Actual Volumetric Flow Rate :	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): 360.000 North (km	1): 3,087.500
14. Emission Point Comment :	

Solid Fuel Handling and Sto	orage Sources (all sou	ırces)			
Emission Point Descrip	tion and Type :		•		
1. Identification of Poin	t on Plot Plan or F	low Diagram :	See Document 1	I.D.2	
2. Emission Point Type	Code:	3	···		
3. Descriptions of Emis	sion Points Comp	rising this Emis	sions Unit :		
FH-044 - Fuel Handling	g - Storage Pile Mair	tenance			
4. ID Numbers or Desc	riptions of Emissio	n Units with this	Emission Point	in C	ommon :
Not applicable					
5. Discharge Type Cod	le		F		
6. Stack Height:				feet	
7. Exit Diameter:				feet	
8. Exit Temperature :			77	°F	
9. Actual Volumetric Flo	w Rate :		1	acfm	<u> </u>
10. Percent Water Vapo	or:			%	
11. Maximum Dry Stand	dard Flow Rate :			dscfr	n
12. Nonstack Emission	Point Height:		-	feet	
13. Emission Point UTM	1 Coordinates :				
Zone: 17	East (km) :	360.000	North (km):	3,087.500
14. Emission Point Com	ment :				

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 9	
Solid Fuel Handling and Storage Sources (all sources)	
Segment Description and Rate : Segment _	1
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode):
Solid Fuel Handling and Storage	
2. Source Classification Code (SCC): 3-05-1	02-03
3. SCC Units: Tons Transferred Or Handled	
4. Maximum Hourly Rate: 3,000.00	5. Maximum Annual Rate : 2,850,000.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

9	
ources)	
s: Pollutant 1	
PM	
%	
054	
062	
lb/hour	tons/year
nissions:	to tons/year
	to tonsyear
ons Comment :	
	ources) s: Pollutant 1 PM % 054 062 Ib/hour

III. Part 9a - 30

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9
<u>Visible Emissions Limitation</u> : Visible Emissions Limitation1_
1. Visible Emissions Subtype : VEF
2. Basis for Allowable Opacity: RULE
2. Basis for Allowable Opacity: RULE
3. Requested Allowable Opacity:
Normal Conditions: 5 %
Exceptional Conditions : %
Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :
EPA Reference Method 9
5. Visible Emissions Comment :
Opacity testing shall be conducted annually on the following fugitive emission locations: FH-004, FH-005, FH-014, FH-020 or FH-021, FH-034 or FH-035, FH-042 or FH-043 FDEP Rule 62-296.711(2)(a), F.A.C., per Specific Condition No. 2 of Permit AO29-216480.
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F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9				
Visible Emissions Limitation :	Visible Emission	ıs Limit	ation 2	
1. Visible Emissions Subtype :	VE		,	_
2. Basis for Allowable Opacity:	RULE			
3. Requested Allowable Opacity:				
	mal Conditions :	100	%	
Maximum Period of Excess (60	min/hour	
4. Method of Compliance :				
Not applicable			·	
5. Visible Emissions Comment :				
Excess emission resulting from start Maximum period of excess emission FDEP Rule 62-210.700, F.A.C.	- :			<u>-</u>
3. Requested Allowable Opacity: Norr Exception Maximum Period of Excess 0 4. Method of Compliance: Not applicable 5. Visible Emissions Comment: Excess emission resulting from start Maximum period of excess emission	mal Conditions : onal Conditions : Opacity Allowed : tup, shutdown, or ma	alfunction	% min/hour	

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

En	nissions Unit Information Section 9
So	lid Fuel Handling and Storage Sources (all sources)
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. 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 Nitroge	en Dioxide?				
[•	ndergone f		n is undergoing PSD review as part of this previously, for nitrogen dioxide. If so, emissions			
]] 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 ope	ration after f	classified as an EPA major source, and the February 8, 1988, but before March 28, 1988. If ions unit consumes increment.			
[•		• •	r will begin) initial operation after March 28, 1988 ssions unit consumes increment.			
[X	such case, additional	l analysis, emissions	beyond the shave occurre	nissions of the emissions unit are nonzero. In scope of this application, is needed to determine ed (or will occur) after the baseline date that may			
3.	Increment Consuming	/Expandin	g Code :				
	PM: U SO2: NO2:						
4.	Baseline Emissions :		,				
	PM : SO2 : NO2 :	0.6400 0.0000	lb/hour lb/hour	0.6100 tons/year 0.0000 tons/year 0.0000 tons/year			
5.	PSD Comment :						
	Emissions unit is part of	baseline PS	D emission in	ventory.			

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Solid Fuel Handling and Storage Sources (all sources)				
Supplemental Requirements for All Applications				
1. Process Flow Diagram :	II.D.3			
2. Fuel Analysis or Specification :	NA			
3. Detailed Description of Control Equipment :	NA			
4. Description of Stack Sampling Facilities :	NA			
5. Compliance Test Report :	NA			
6. Procedures for Startup and Shutdown :	NA			
7. Operation and Maintenance Plan :	NA			
8. Supplemental Information for Construction Permit Application :	NA			
9. Other Information Required by Rule or Statue :	Appendix A			
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 :	NA			

13. Identification of A	dditional Applicable Requirements : Appendix A
14. Acid Rain Applica	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 Section10
Units	s 1-4 Flyash Silo (Fly Ash Silo No. 2)
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.

Fmissions	Unit	Information	Section	10	
	OHIL	IIIIOIIIIauoii	Section	10	

Emissions Unit Description and Status

1. Description of Emissions Unit	Addressed in This Section	n:			
Units 1-4 Flyash Silo (Fly Ash S	ilo No. 2)				
2. ARMS Identification Number	: 010		•		
0 5	4 A .: 1 D .: - 11 .: 10				
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Èmissions Unit Major Group SIC Code :		
A	1	N	49		
6. Initial Startup Date :					
7. Long-term Reserve Shutdow	n Date :				
8. Package Unit :					
Manufacturer : Model Number :					
9. Generator Nameplate Rating	j: MW				
10. Incinerator Information :					
	mperature :	°F			
_	Dwell Time : seconds Incinerator Afterburner Temperature : °F				
Inclinerator Arterpumer re	emperature .	Ī			
11. Emissions Unit Comment :					
The Fly Ash Silo No. 2 emissi	ons unit is a "regulated" emis	ssions ı	unit.		
I .					

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Emissions Unit Information Section	10
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)	

Emissions Unit Operating Capacity

1.	Maximum Heat Input Rate:	mmBtu/hr	
2.	Maximum Incinerator Rate :		,
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :	14	
	Units:	tons/hour	
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :		
	NA		

Emissions Unit Information Section	10
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)	

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	10	•		
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)				
Rule Applicability Analysis				
Not applicable		:	o-	

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	10
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Units 1-4 Flyash Silo (Fly Ash Silo No. 2)

List of Applicable Regulations

See Appendix A

Linissions on timormation Section 10		
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)		
Emission Point Description and Type:		
1. Identification of Point on Plot Plan or Flow Diagram : F	'A-001	
2. Emission Point Type Code :		
3. Descriptions of Emission Points Comprising this Emissions	Unit :	
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)		
4. ID Numbers or Descriptions of Emission Units with this Emi	ssion Point	in Common :
Not applicable		
5. Discharge Type Code :	V	
6. Stack Height :	107	feet
7. Exit Diameter :	1.0	feet
8. Exit Temperature :	350	° F
9. Actual Volumetric Flow Rate :	4696	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): 360.100	North (km	3087.500

14. Emission Point Comment:

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 10	
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)	
Segment Description and Rate : Segment	
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode) :
Flyash Handling and Storage	
2. Source Classification Code (SCC): 3-05-0	09-99
3. SCC Units: Tons Transferred Or Handled	
4. Maximum Hourly Rate: 14.50	5. Maximum Annual Rate : 127,020.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	•

E. POLLUTANT INFORMATION

Emissions Unit Information Section	10		
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)			
Pollutant Potential/Estimated Emissions	: Pollutant _	1	
1. Pollutant Emitted :	PM		
2. Total Percent Efficiency of Control:	99.80 %	v	
3. Primary Control Device Code :	016		
4. Secondary Control Device Code :			
5. Potential Emissions : 1.21	lb/hour	5.30	tons/year
6. Synthetically Limited? N			
7. Range of Estimated Fugitive/Other Em	issions:	to	tons/year
8. Emissions Factor : 0.03 Units : gr/dscf Reference : Allowable Emiss	ions	,	
9. Emissions Method Code:	_		
10. Calculations of Emissions :			
11. Pollutant Potential/Estimated Emissio	ns Comment :		
Emissions unit pollutant regulatory code: EL - PM WP - None NS - PM10			

En	nissions Unit Information Section	on <u>1</u>	0			
	llutant Information Section owable Emissions 1	11				
1.	Basis for Allowable Emissions C	Code :	RULE			
2.	Future Effective Date of Allowal	ble Emissio	ns :			
3.	Requested Allowable Emissions	and Units	: 0.03	gr/ds	ocf	
4.	Equivalent Allowable Emissions	:				
	1.2	.0	lb/hour	5.30	tons/year	
5.	Method of Compliance :					
	Annual testing using EPA Reference Method 9					
6.	Pollutant Allowable Emissions C	Comment (E	Desc. of Related C	perating Met	hod/Mode) :	
	FDEP Rule 62-296.711(2)(b), F.A.	C., per Spec	ific Condition No. 2	of Permit AO2	29-250140.	

F. VISIBLE EMISSIONS INFORMATION

Em	issions Unit Information Section10
<u>Vis</u>	ible Emissions Limitation: Visible Emissions Limitation 1
1.	Visible Emissions Subtype : VEA
2.	Basis for Allowable Opacity: RULE
3.	Requested Allowable Opacity :
	Normal Conditions: 5 %
	Exceptional Conditions : %
	Maximum Period of Excess Opacity Allowed : min/hour
4.	Method of Compliance :
	Annual testing using EPA Reference Method 9
5.	Visible Emissions Comment :
	FDEP Rule 62-296.711(2)(a), F.A.C.

F. VISIBLE EMISSIONS INFORMATION

Emissions offic mormation section	
<u>Visible Emissions Limitation</u> : Visible Emissions Li	mitation 2
Visible Emissions Subtype : VE	
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 :	
Not applicable	
5. Visible Emissions Comment :	
Excess emission resulting from startup, shutdown, or malfun Maximum period of excess emision allowed is 2 hours in any FDEP Rule 62-210.700(1), F.A.C.	

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

Emissions Unit Information Section10
Units 1-4 Flyash Silo (Fly Ash Silo No. 2)
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 consume 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.	Increment Consu	ıming for Nitroge	en Dioxide?				
[-	has undergone f		undergoing PSD re viously, for nitrogen	view as part of this dioxide. If so, emiss	sions	
]	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 l	began initial ope	eration after Feb		ajor source, and the efore March 28, 198 ement.	38. If	
[• •		- '	ill begin) initial opera ons unit consumes in	ation after March 28, acrement.	1988.	
[X	such case, add whether change	litional analysis,	beyond the sco	pe of this application	ns unit are nonzero. n, is needed to deter ne baseline date tha	mine	
3.	Increment Consu	uming/Expandin	g Code :		_		
	PM : SO2 : NO2 :	U					
4.	Baseline Emission	ons :					
	PM:	1 2100	lb/hour	4 4000	tons/year		
	SO2:	0.0000	lb/hour		tons/year		
	NO2 :	0.0000			tons/year		
5.	PSD Comment :		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·			
	Emissions unit is n	part of baseline DC	D emission inven	tom	•		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

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

13. Identification of A	Additional Applicable Requirements : Appendix A
14. 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

	sions Unit Information Section11
Units 5	5 - 6 Flyash Silo (Fly Ash Silo No. 1)
Type (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 I	Unit	Information	Section	11

Emissions Unit Description and Status

1. Description of Emissions Unit	Addressed in This Section	n:		
Units 5 - 6 Flyash Silo (Fly Ash S	Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)			
2. ARMS Identification Number	: 011		,	
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Emissions Unit Major Group SIC Code :	
A	1	N	49	
6. Initial Startup Date :				
7. Long-term Reserve Shutdow	n Date :			
8. Package Unit :				
Manufacturer : Model Number :				
9. Generator Nameplate Rating	MW			
10. Incinerator Information :			•	
	mperature : well Time : emperature :	°F seco °F	onds `	
11. Emissions Unit Comment :				
The Fly Ash Silo No. 1 emission	ons unit is a "regulated" emis	sions ι	unit.	

Emissions Unit Information Section	11	٠,		
Emissions Unit Control Equipment	1			
1. Description :				
Baghouse - Fabric Filter - High Tempera	ture		•	
2. Control Device or Method Code :	16			

Emi	ssions Unit Information Section	11	
Unit	s 5 - 6 Flyash Silo (Fly Ash Silo No. 1)		
<u>Emi</u>	ssions Unit Operating Capacity		
1.	Maximum Heat Input Rate :	mmBtu/hr	
2.	Maximum Incinerator Rate :		
		lb/hr	tons/day
3.	Maximum Process or Throughput Rate :	13	
	Units :	tons/hour	
4.	Maximum Production Rate :		
	Units :		
5.	Operating Capacity Comment :		
1	NA .		

Emissions Unit Information Section	11
Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)	

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	11	v	
Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)			
Rule Applicability Analysis			
Not applicable			

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit	Information	Section	11
Emissions	Unit	Information	Section	1.

Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)

List of Applicable Regulations

See Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section	11

Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram:	FA-003			
2.	Emission Point Type Code : 1				_
3.	Descriptions of Emission Points Comprising this Emission	ons Unit :			
	Units 5 and 6 Flyash Silo (Fly Ash Silo No. 1)				
4.	ID Numbers or Descriptions of Emission Units with this E	Emission Point	in Co	ommon :	
	Not applicable				
5.	Discharge Type Code :	V			
6.	Stack Height :	104	feet		
7.	Exit Diameter :	2.0	feet		
8.	Exit Temperature :	300	°F		
9.	Actual Volumetric Flow Rate :	11300	acfm	1	
10	Percent Water Vapor :		%		
11	. Maximum Dry Standard Flow Rate :		dscfr	m	
12	Nonstack Emission Point Height :		feet		
13	Emission Point UTM Coordinates :	,			
	Zone: 17 East (km): 360.000	North (km	1):	3087.500	
14	Emission Point Comment :				

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 11	,
Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode):
Flyash Handling and Storage	
2. Source Classification Code (SCC): 3-05-00	99-99
3. SCC Units: Tons Transferred Or Handled	
4. Maximum Hourly Rate: 13.05	5. Maximum Annual Rate : 114,318.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit:	
10. Segment Comment :	

E. POLLUTANT INFORMATION

Emissions Unit Information Section	11
Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)	
Pollutant Potential/Estimated Emissions	s: Pollutant 1
1. Pollutant Emitted :	PM
2. Total Percent Efficiency of Control:	99.90 %
3. Primary Control Device Code :	016
4. Secondary Control Device Code :	
5. Potential Emissions : 2.91	lb/hour 12.70 tons/year
6. Synthetically Limited? N	
7. Range of Estimated Fugitive/Other En	nissions: to tons/year
8. Emissions Factor: 0.03 Units: gr/dscf Reference: Allowable Emiss	sions
9. Emissions Method Code :	
10. Calculations of Emissions :	
11. Pollutant Potential/Estimated Emission	ons Comment :
Emissions unit pollutant regulatory code EL - PM WP - None NS - PM10 (control method code 016)	

En	nissions Unit Information Section 11_			
	Ilutant Information Section1_	,		
<u>All</u>	owable Emissions 1			
1.	Basis for Allowable Emissions Code :	RULE		
2.	Future Effective Date of Allowable Emissions :		<u>, , , , , , , , , , , , , , , , , , , </u>	
3.	Requested Allowable Emissions and Units :	0.03	gr/dsc	f
4.	Equivalent Allowable Emissions :			
	2.90 lb/ho	ur	12.70	tons/year
5.	Method of Compliance :			
	Annual testing using EPA Reference Method 9.			
6.	Pollutant Allowable Emissions Comment (Desc.	of Related	Operating Meth	od/Mode) :
	FDEP Rule 62-296.711(2)(b), F.A.C., per Specific Co	ondition No.	.2 of Permit AO29	-250137.

F. VISIBLE EMISSIONS INFORMATION

En	Emissions Unit Information Section11				
<u>Vis</u>	sible Emissions Limitation: Visible Emissions Limitation 1				
1.	Visible Emissions Subtype : VEA				
2.	Basis for Allowable Opacity: RULE				
3.	Requested Allowable Opacity :				
	Normal Conditions: 5 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour				
4.	Method of Compliance :				
	Annual testing using EPA Reference Method 9.				
5.	Visible Emissions Comment :				
	FDEP Rule 62-296.711(2)(a), F.A.C.				

F. VISIBLE EMISSIONS INFORMATION

Em	Emissions Unit Information Section 11					
<u>Vis</u>	<u>Visible Emissions Limitation</u> : Visible Emissions Limitation2_					
1.	Visible Emissions Subtype :	VE				
2.	Basis for Allowable Opacity:	RULE				
3.	Requested Allowable Opacity :			<u>.</u>		
	Nor	rmal Conditions :		%		
	Exception	onal Conditions :	100	%		
	Maximum Period of Excess	Opacity Allowed:	60	min/hour		
4.	Method of Compliance :					
	Not applicable					
5.	5. Visible Emissions Comment :					
	Excess emission resulting from startup, shutdown, or malfunction. Maximum period of excess emission allowed is 2 hours in any 24-hour period. FDEP Rule 62-210.700(1), F.A.C.					
$\overline{}$						

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

E	missions Unit Information Section
U	nits 5 - 6 Flyash Silo (Fly Ash Silo No. 1)
P	SD Increment Consumption Determination
1.	Increment Consuming for Particulate Matter or Sulfur Dioxide?
Į.] 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 b	egan initial ope	ration after Fe	assified as an EPA major source, and the bruary 8, 1988, but before March 28, 1988. If his unit consumes increment.		
[will begin) initial operation after March 28, 1988. ions unit consumes increment.		
[X	[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 Consu	ming/Expanding	g Code :			
	PM:	U				
	SO2:					
	NO2 :					
4.	4. Baseline Emissions :					
	PM:	2.9100	lb/hour	10.6100 tons/year		
	SO2:	0.0000	lb/hour	0.0000 tons/year		
	NO2 :			0.0000 tons/year		
5.	PSD Comment :					
	Emissions unit is part of baseline PSD emission inventory.					

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section	
Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)	
Supplemental Requirements for All Applications	
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA .
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	Appendix A
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 :	NA

13. Identification of	Additional Applicable Requirements : Appendix A		
14. Acid Rain Applic	eation (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

⊏mis	ssions Unit information Section 12
Unit 4	4 Economizer Fly Ash Silo
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	12

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section :						
Unit 4 Economizer Fly Ash Silo						
2. ARMS Identification Number	: 012		,			
3. Emissions Unit Status Code: 4. Acid Rain Unit? 5. Emissions Unit Major Group SIC Code:						
A	N	I	49			
6. Initial Startup Date :						
7. Long-term Reserve Shutdow	n Date :					
8. Package Unit :						
Manufacturer : Model Number :						
9. Generator Nameplate Rating : MW						
10. Incinerator Information :						
Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F						
11. Emissions Unit Comment :						
The Unit 4 Economizer Fly Ash Silo emissions unit is a "regulated" emissions unit.						

Emissions Unit Information Section	12
Emissions Unit Control Equipment	1
1. Description :	
Baghouse - Fabric Filter - High Tempera	ture
2. Control Device or Method Code :	16

L11							
Un	Unit 4 Economizer Fly Ash Silo						
<u>En</u>	Emissions Unit Operating Capacity						
1.	Maximum Heat Input Rate :	mmBtu/hr					
2.	Maximum Incinerator Rate :						
		lb/hr	tons/day				
3.	Maximum Process or Throughput Rate :	2					
	Units :	ton/hr					
4.	Maximum Production Rate :						
	Units :						
5.	Operating Capacity Comment :						
	NA						

Emissions Unit Information Section	12

Unit 4 Economizer Fly Ash Silo

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	12	
Unit 4 Economizer Fly Ash Silo		
Rule Applicability Analysis		
Not applicable		

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 12

Unit 4 Economizer Fly Ash Silo

List of Applicable Regulations

Reference Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions	Unit Information	Section	12
		•	

Unit 4 Economizer Fly Ash Silo

Emission Point Description and Type:

1.	Identification of Point on Plot Plan or Flow Diagram :	FA-006	
2.	Emission Point Type Code: 1	A.C.	1.4.
3.	Descriptions of Emission Points Comprising this Emi	ssions Unit :	
	Unit 4 Economizer Ash Silo	,	
4.	ID Numbers or Descriptions of Emission Units with th	nis Emission Point	in Common :
	Not applicable		
5.	Discharge Type Code :	V	
6.	Stack Height :	72	feet
7.	Exit Diameter :	0.6	feet
8.	Exit Temperature :	650	°F
9.	Actual Volumetric Flow Rate :	830	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): 360.000	North (km	a): 3087.500
14	Emission Point Comment :		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 12	_			
Unit 4 Economizer Fly Ash Silo				
Segment Description and Rate: Segment	1			
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):			
Flyash Handling and Storage				
2. Source Classification Code (SCC): 3-05-0	009-99			
3. SCC Units: Tons Transferred Or Handled				
4. Maximum Hourly Rate: 0.75	5. Maximum Annual Rate: 6,570.00			
6. Estimated Annual Activity Factor:				
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :			
9. Million Btu per SCC Unit :				
10. Segment Comment :				

E. POLLUTANT INFORMATION

Emissions Unit Information Section 12

	_		_					
Unit	t 4 Economizer Fly Ash Silo							
<u>Poi</u>	lutant Potential/Estimated Emissions	<u>: :</u>	Polluta	ant _	1	,		
1.	Pollutant Emitted :	PM		_				
2.	Total Percent Efficiency of Control :	99.90)	%				
3.	Primary Control Device Code :	016						
4.	Secondary Control Device Code :		_					
5.	Potential Emissions: 0.13	lb/ho	ur		0.56		tons/year	
6.	Synthetically Limited? N							
7.	Range of Estimated Fugitive/Other Em	ission	ıs:			`to		tons/year
8.	Emissions Factor: 0.03 Units: gr/dscf Reference: Allowable Emiss	ions						
9.	Emissions Method Code :				,			
10.	Calculations of Emissions :							
11.	Pollutant Potential/Estimated Emissio	ns Co	mment	:				
	Emissions unit pollutant regulatory code: EL - PM WP - None NS - None							

Emissions Unit Information Section 12				
	1			
Basis for Allowable Emissions C	ode :	RULE		
Future Effective Date of Allowab	ole Emissio	ns :		
Requested Allowable Emissions	and Units	:		
Equivalent Allowable Emissions	:			
0.13	3	lb/hour	0.56	tons/year
Method of Compliance :				
Annual testing using EPA Reference	Method 9.			
Pollutant Allowable Emissions C	omment ([Desc. of Relate	ed Operating M	ethod/Mode) :
FDEP Rule 62-296.711(2)(b), F.A.	C., per Spec	ific Condition N	lo. 2 of Permit A	O29-218858.
	Basis for Allowable Emissions C Future Effective Date of Allowable Emissions Requested Allowable Emissions Equivalent Allowable Emissions 0.1 Method of Compliance: Annual testing using EPA Reference Pollutant Allowable Emissions C	Basis for Allowable Emissions Code : Future Effective Date of Allowable Emission Requested Allowable Emissions and Units Equivalent Allowable Emissions : 0.13 Method of Compliance : Annual testing using EPA Reference Method 9. Pollutant Allowable Emissions Comment (E	Basis for Allowable Emissions Code : RULE Future Effective Date of Allowable Emissions : Requested Allowable Emissions and Units : Equivalent Allowable Emissions : 0.13 Ib/hour Method of Compliance : Annual testing using EPA Reference Method 9. Pollutant Allowable Emissions Comment (Desc. of Related)	Basis for Allowable Emissions Code : RULE Future Effective Date of Allowable Emissions : Requested Allowable Emissions and Units : Equivalent Allowable Emissions : 0.13 Ib/hour 0.56

F. VISIBLE EMISSIONS INFORMATION

Em	missions Unit Information Section 12	
<u>Vis</u>	<u>'isible Emissions Limitation :</u> Visible Emissions Limitati	on 1
1.	I. Visible Emissions Subtype : VEA	<u>. </u>
2.	2. Basis for Allowable Opacity: RULE	
3.	3. Requested Allowable Opacity :	
	Normal Conditions: 5 %	
	Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: m	nin/hour
4.	1. Method of Compliance :	
	Annual testing using EPA Reference Method 9.	
5.	5. Visible Emissions Comment :	,
	FDEP Rule 62-296.711(2)(a), F.A.C.	
		· · · · · · · · · · · · · · · · · · ·

F. VISIBLE EMISSIONS INFORMATION

Emissions ont information Section 12
<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: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour
4. Method of Compliance :
Not applicable
5. Visible Emissions Comment :
Excess emission resulting from startup, shutdown, or malfunction. Maximum period of excess emission allowed is 2 hours in any 24-hour period. FDEP Rule 62-210.700(1), F.A.C.

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

L۱	missions Unit Information Section 12
Uı	nit 4 Economizer Fly Ash Silo
<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.
I] 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.
I] 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.
I] 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.
[>	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 Consu	ming for Nitroge	en Dioxide?			
]	•	nas undergone F		is undergoing PSI eviously, for nitrog	•	
]	paragraph (c) o the emissions u	f the definition on the state of the first first first first from the state of the	of "major source this section o	assified as an EP/ ce of air pollution" commenced (or wi ions are zero, and	in Chapter 62-2 ill commence) c	213, F.A.C., and onstruction
]	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.					
[•		- •	will begin) initial o ions unit consume	•	1arch 28, 1988.
[X		itional analysis, es in emissions l	beyond the so	ssions of the emis cope of this applications of the cour) after	ation, is needed	d to determine
3.	Increment Consu	ıming/Expandin	g Code :	==		
	PM : SO2 : NO2 :	U				
4.	Baseline Emission	ons :				
	PM : SO2 : NO2 :		lb/hour lb/hour	0.0	5600 tons/year 0000 tons/year 0000 tons/year	
5.	PSD Comment :		-			-
	Emissions unit is p	art of baseline PS	D emission inve	entory.		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

___12

Unit 4 Economizer Fly Ash Silo	
Supplemental Requirements for All Applications	
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	Appendix A
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 :	NA

Emissions Unit Information Section

 Identification of A 	Additional Applicable Requirements : Appendix A
14. 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

Emis	ssions Unit Information Section13
Flyas	sh Handling and Storage Sources (Fugitive Emissions)
Туре	e of Emissions Unit Addressed in This Section
[] 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.
[X] 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 :											
Flyash Handling and Storage Sources (Fugitive Emissions)											
2. ARMS Identification Number: 013											
3. Emissions Unit Status Code :	4. Acid Rain Unit?		5. Emissions Unit Major Group SIC Code :								
A		N		49							
6. Initial Startup Date :											
7. Long-term Reserve Shutdow	n Date :										
8. Package Unit :											
Manufacturer : Model Number :											
9. Generator Nameplate Rating : MW											
10. Incinerator Information :											
Dwell Temperature :			°F .								
Dwell Time : Incinerator Afterburner Temperature :			seconds °F								
11. Emissions Unit Comment :		_		•							
The Flyash Handling and Storage Sources emissions unit is a "regulated" emissions unit.											

Emissions Unit Information Section	13		
Emissions Unit Control Equipment	1		
1. Description :			
Air returned to silo			
2. Control Device or Method Code :	99		

Emissions Unit Information Section	13		
Emissions Unit Control Equipment	2	•	
1. Description :			
Dust Suppressant - Watering			
2. Control Device or Method Code :	61		

Flyash	Flyash Handling and Storage Sources (Fugitive Emissions)			
Emiss	sions Unit Operating Capacity			
1. Ma	aximum Heat Input Rate :	mmBtu/hr		
	· 			
2. Ma	aximum Incinerator Rate :			
		lb/hr	tons/day	
3. Ma	aximum Process or Throughput Rate :	150		
	Units:	ton/hr		
4. Ma	aximum Production Rate :			

13

Emissions Unit Information Section

Units:

5. Operating Capacity Comment:

NA

Flyash Handling and Storage Sources (Fugitive Emissions)

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	13
Flyash Handling and Storage Sources (Fugitive	ve Emissions)
Rule Applicability Analysis	
Not applicable	

B. EMISSIONS UNIT REGULATIONS

Emissions	Unit	Information	Section	13
LIIII3310113	OHIL	muomation	Section	13

Flyash Handling and Storage Sources (Fugitive Emissions)

List of Applicable Regulations

See Appendix A

13

<u>Emissior</u>	Point Descrip	tion and Type :				
1. Ident	fication of Poin	t on Plot Plan or Fl	ow Diagram :	See Diagram II	.D.2	
2. Emis	ion Point Type	Code: 3				
3. Desc	iptions of Emis	sion Points Compr	ising this Emiss	ions Unit :		
FA-00	2 - Flyash Handli	ng - Units 1-4 Flyash	Silo to Tanker T	ruck		
4. ID N	mbers or Desc	riptions of Emissior	n Units with this	Emission Point	in Co	ommon :
Not ap	olicable					
5. Disch	arge Type Cod	е		F		
6. Stac	Height :				feet	
7. Exit C	ameter :				feet	
8. Exit T	emperature :			77	°F	
9. Actua	Volumetric Flo	w Rate :			acfm	
10. Perd	ent Water Vapo	or:			%	
11. Max	mum Dry Stand	lard Flow Rate :			dscfn	n
12. Non	tack Emission	Point Height :		10	feet	
13. Emi:	sion Point UTM	Coordinates :				
Zone	: 17	East (km):	360.000	North (km):	3,087.500
14. Emi	sion Point Com	ment:				
				1		

Emissions Unit Information Section

Flyash Handling and Storage Sources (Fugitive Emissions)

13

Emission Point Description and Type :	ï	
1. Identification of Point on Plot Plan or Flo	ow Diagram : See Diagram II.D	0.2
2. Emission Point Type Code: 3		
3. Descriptions of Emission Points Compris	sing this Emissions Unit:	
FA-005 - Flyash Handling - Units 5 and 6 Pu	gmill and Truck Loading	
4. ID Numbers or Descriptions of Emission	Units with this Emission Point in	n Common :
Not applicable		
5. Discharge Type Code	F	
6. Stack Height :	fe	eet
7. Exit Diameter :	fe	eet
8. Exit Temperature :	77 •	F
9. Actual Volumetric Flow Rate :	a	cfm
10. Percent Water Vapor:	9	6
11. Maximum Dry Standard Flow Rate :	d	scfm
12. Nonstack Emission Point Height:	10 fe	eet
13. Emission Point UTM Coordinates :		
Zone: 17 East (km):	360,000 North (km)	3,087.500
14. Emission Point Comment :		

Emissions Unit Information Section

Flyash Handling and Storage Sources (Fugitive Emissions)

Emissions Unit Information Section	13		
Flyash Handling and Storage Sources (Fugi	tive Emissions)		
Emission Point Description and Type	<u>: :</u>		
1. Identification of Point on Plot Plan	or Flow Diagram :	See Diagram II.D.2	
2. Emission Point Type Code :	3		
3. Descriptions of Emission Points Co	omprising this Emiss	sions Unit :	
FA-007 - Flyash Handling - Unit 4 Eco	nomizer Ash to Tanke	r Truck	
4. ID Numbers or Descriptions of Em	ission Units with this	Emission Point in (Common :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height:		fee	!
7. Exit Diameter :		fee	t .
8. Exit Temperature :		77 °F	
9. Actual Volumetric Flow Rate :	-	acfi	m
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow Rate) ;	dsc	fm
12. Nonstack Emission Point Height :		10 feet	
13. Emission Point UTM Coordinates	:		
Zone: 17 East (km	360.000	North (km):	3,087.500
14. Emission Point Comment :			

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit information Section 13	-
Flyash Handling and Storage Sources (Fugitive Emission	ons)
Segment Description and Rate: Segment	. 1
1. Segment Description (Process/Fuel Type and	Associated Operating Method/Mode):
Flyash Handling and Storage	
2. Source Classification Code (SCC): 3-05-0	09-99
3. SCC Units: Tons Transferred Or Handled	
4. Maximum Hourly Rate :	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment :	
Emissions unit pollutant regulatory code: EL - None WP - None NS - None	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 13	
<u>Visible Emissions Limitation</u> : Visible Emissions Lim	nitation 1
Visible Emissions Subtype : VEF	
2. Basis for Allowable Opacity: RULE	
3. Requested Allowable Opacity :	
Normal Conditions: 5 Exceptional Conditions: Maximum Period of Excess Opacity Allowed:	% % min/hour
4. Method of Compliance :	
Annual testing using EPA Reference Method 9.	·
5. Visible Emissions Comment :	
FDEP Rule 62-296.711(2)(a), F.A.C.	

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section	<u> 13</u>			
<u>Visible Emissions Limitation :</u>	Visible Emission	s Limit	cation 2	
1. Visible Emissions Subtype :	VE			
2. Basis for Allowable Opacity:	RULE			
3. Requested Allowable Opacity:				
Name	al Oanalitiana		0.4	
	al Conditions : al Conditions :	100	% %	
Maximum Period of Excess O		60	min/hour	
Maximan Forest of Exects of				
4. Method of Compliance :				
Not applicable				
5. Visible Emissions Comment :				
Excess emission resulting from startu	=			
Maximum period of excess emission a FDEP Rule 62-210.700(1), F.A.C.	allowed is 2 hours i	n any 24	4-hour period.	

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

E	missions Unit Information Section 13_
Fl	yash Handling and Storage Sources (Fugitive Emissions)
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 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	ming for Nitroge	en Dioxide?	
[•	as undergone F		rgoing PSD review as part of this y, for nitrogen dioxide. If so, emissions
[paragraph (c) of the emissions u	the definition on the first the definition of the definition o	of "major source of air on this section commer	as an EPA major source pursuant to pollution" in Chapter 62-213, F.A.C., an need (or will commence) construction e zero, and emissions unit consumes
[emissions unit b	egan initial ope	ration after February	as an EPA major source, and the 8, 1988, but before March 28, 1988. If consumes increment.
[•		• •	in) initial operation after March 28, 1988 it consumes increment.
[X	such case, addit	tional analysis, s in emissions l	beyond the scope of	of the emissions unit are nonzero. In this application, is needed to determine occur) after the baseline date that may
3.	Increment Consu	ming/Expandin	g Code :	
	PM : SO2 : NO2 :	U		
4.	Baseline Emissio	ns :		
	PM : SO2 : NO2 :	1.0400 0.0000	lb/hour lb/hour	0.4400 tons/year 0.0000 tons/year
				0.0000 tons/year
5.	PSD Comment :			0.0000 tons/year
5.		art of baseline PS	D emission inventory.	0.0000 tons/year

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 13

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

Supplemental Requirements for All Applications	
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	Appendix A
Additional Supplemental Requirements for Category I Application	ns Only
10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading):	NA
12. Enhanced Monitoring Plan :	NA
	

13. Identification of A	dditional Applicable Requirements : Appendix A
14. Acid Rain Applica	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

Emis	ssions Unit Information Section14
Othe	Material Handling Sources
Туре	e of Emissions Unit Addressed in This Section
[] 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.
[X] 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 :	
Other Material Handling Sources		
2. ARMS Identification Number	: 014	
3. Emissions Unit Status Code :	4. Acid Rain Unit?	5. Emissions Unit Major Group SIC Code :
Α	N	49
6. Initial Startup Date :		
7. Long-term Reserve Shutdow	n Date :	
8. Package Unit :		
Manufacturer : Model Number :		
9. Generator Nameplate Rating	: MW	
10. Incinerator Information :		,
	mperature : °F	
Incinerator Afterburner Te		conds
11. Emissions Unit Comment :		_
The Other Material Handling S	Sources emissions unit is a "regula	ated" emissions unit.

Emissions Unit Information Section	14		
Emissions Unit Control Equipment	I		
1. Description :			
Dust Suppressant Sprays			
2. Control Device or Method Code :	62		

Emissions Unit Information Section	14
Other Material Handling Sources	

Emissions Unit Operating Capacity

Maximum Heat Input Rate :	e grand de	mmBtu/hr	
Maximum Incinerator Rate :			
		lb/hr	tons/day
Maximum Process or Throughp	ut Rate :		
	Units :		
Maximum Production Rate :	60		
Units:	ton/hr		
Operating Capacity Comment :			1
•			
	Maximum Incinerator Rate : Maximum Process or Throughp Maximum Production Rate : Units : Operating Capacity Comment :	Maximum Incinerator Rate : Maximum Process or Throughput Rate : Units : Maximum Production Rate : 60 Units : ton/hr Operating Capacity Comment :	Maximum Incinerator Rate : Ib/hr Maximum Process or Throughput Rate : Units : Maximum Production Rate : 60 Units : ton/hr Operating Capacity Comment :

Emissions	Unit	Information Section	14

Other Material Handling Sources

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	14		
Other Material Handling Sources		•	
Rule Applicability Analysis			
Not applicable		·	

B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section	14

Other Material Handling Sources

List of Applicable Regulations

See Appendix A

14

Emission Point Description and Typ	<u>e :</u>		
1. Identification of Point on Plot Plan	or Flow Diagram :	See Diagram II.D.2	
2. Emission Point Type Code :	3		
3. Descriptions of Emission Points C	omprising this Emission	ns Unit :	
OMH-001 - Other Material Handling	Truck Dump to Flux Stor	rage Pile	
4. ID Numbers or Descriptions of En	nission Units with this E	mission Point in Comm	on :
Not applicable			
5. Discharge Type Code		F	
6. Stack Height :		feet	
7. Exit Diameter :		feet	
8. Exit Temperature :		77 °F	
9. Actual Volumetric Flow Rate :		acfm	
10. Percent Water Vapor :		%	
11. Maximum Dry Standard Flow Rat	e:	dscfm	
12. Nonstack Emission Point Height		10 feet	
13. Emission Point UTM Coordinates	:		
Zone: 17 East (kn	a): 360.000	North (km): 3,08	87.500
14. Emission Point Comment :			

Emissions Unit Information Section

14

Other Material Handling Sources		
Emission Point Description and Type :		
1. Identification of Point on Plot Plan or Flow Diagram :	See Diagram II	.D.2
2. Emission Point Type Code: 3	,	
3. Descriptions of Emission Points Comprising this Emission	ns Unit :	
OMH-002 - Other Material Handling - Flux Storage Pile Mainter	nance	
4. ID Numbers or Descriptions of Emission Units with this En	mission Poin	t in Common :
Not applicable		
5. Discharge Type Code	F	
6. Stack Height:		feet
7. Exit Diameter :		feet
8. Exit Temperature :	77	°F
9. Actual Volumetric Flow Rate :		acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :	,	dscfm
12. Nonstack Emission Point Height:	10	feet
13. Emission Point UTM Coordinates :		
Zone: 17 East (km): 360.000	North (km	3,087.500

14. Emission Point Comment:

Emissions Unit Information Section

14

<u>Emis</u>	sion Point Description and Type :	
1. Ic	dentification of Point on Plot Plan or Flow Diagram : See Diagram I	I.D.2
2. E	Emission Point Type Code: 3	
3. D	Descriptions of Emission Points Comprising this Emissions Unit:	
0	MH-003 - Flux Storage Pile	
4. 10	D Numbers or Descriptions of Emission Units with this Emission Poir	nt in Common :
No	ot applicable	
5. D	Discharge Type Code F	
6. S	Stack Height :	feet
7. E	xit Diameter :	feet
8. E	xit Temperature : 77	°F
9. A	ctual Volumetric Flow Rate :	acfm
10. F	Percent Water Vapor :	%
11. N	Maximum Dry Standard Flow Rate :	dscfm
12. 1	Nonstack Emission Point Height : 10	feet
13. E	Emission Point UTM Coordinates :	
Z	Zone: 17 East (km): 360.000 North (kr	n): 3,087.500
14. E	Emission Point Comment :	

Emissions Unit Information Section

14

<u>Emiss</u>	ion Point Description	and Type :				
1. ld	entification of Point on	Plot Plan or Fl	low Diagram :	See Diagram II	.D.2	
2. Er	nission Point Type Co	de: 3	3			
3. De	escriptions of Emission	Points Compr	ising this Emission	ons Unit :		
ON	1H-004 - Other Material	Handling - Conv	eyor S to Conveyo	r D1/D2		
4. ID	Numbers or Description	ons of Emission	n Units with this E	Emission Point	in Cor	nmon :
No	applicable					
5. Di	scharge Type Code			F		
6. St	ack Height :				feet	
7. Ex	t Diameter :				feet	
8. Ex	t Temperature :			77	°F	
9. Ac	ual Volumetric Flow R	ate :			acfm	
10. P	ercent Water Vapor :			1	%	
11. M	aximum Dry Standard	Flow Rate :	_		dscfm	
12. N	onstack Emission Poir	nt Height :		10	feet	
13. E	mission Point UTM Co	ordinates :		_		
Z	one: 17	East (km) :	360.000	North (km):	3,087.500
14. E	mission Point Comme	nt :				

Emissions Unit Information Section

14

<u>Em</u>	ission Point Description and Type :		
1.	Identification of Point on Plot Plan or Flow Dia	agram: See Diagram II.D.2	
2.	Emission Point Type Code: 3		
3.	Descriptions of Emission Points Comprising t	nis Emissions Unit :	
	OMH-005 - Other Material Handling - Underground	d Reclaim System to Conveyor S	
4.	ID Numbers or Descriptions of Emission Units	with this Emission Point in Commor	า:
	Not applicable		
5.	Discharge Type Code	F	
6.	Stack Height :	feet	
7.	Exit Diameter :	feet	
8.	Exit Temperature :	77 °F	
9.	Actual Volumetric Flow Rate :	acfm	
10.	Percent Water Vapor :	%	
11.	Maximum Dry Standard Flow Rate :	dscfm	.
12.	Nonstack Emission Point Height :	10 feet	
13.	Emission Point UTM Coordinates :		
	Zone: 17 East (km): 360	.000 North (km): 3,087	.500
14.	Emission Point Comment :		

Emissions Unit Information Section

D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 14	_
Other Material Handling Sources	
Segment Description and Rate: Segment	1
1. Segment Description (Process/Fuel Type and	d Associated Operating Method/Mode):
Flux Handling	
2. Source Classification Code (SCC): 3-05-1	
3. SCC Units: Tons Transferred Or Handled	·
4. Maximum Hourly Rate : 60.00	5. Maximum Annual Rate: 43,680.00
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash:
9. Million Btu per SCC Unit :	
10. Segment Comment :	

E. POLLUTANT INFORMATION

14	
s: Pollutant 1	
PM	-
50.00 %	
062	
lb/hour tons/year	
nissions: to	tons/year
. •	
ons Comment :	
:	
	s: Pollutant 1 PM 50.00 % 062 Ib/hour tons/year nissions: to

F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Sect	14		
			ı
<u>Visible Emissions Limitation :</u>	Visible Emissions Li	mitation <u>l</u>	
1. Visible Emissions Subtype :	VEF		
		9	
2. Basis for Allowable Opacity:	RULE	•	
3. Requested Allowable Opacity	:		
No	rmal Conditions: 5	%	
-	onal Conditions :	%	
Maximum Period of Excess	Opacity Allowed :	min/hour	
4. Method of Compliance :			
Annual testing of OMH-004 using	EPA Reference Method 9.		
5. Visible Emissions Comment:			
FDEP Rule 62-296.711(2)(a), F.A	.C.		

F. VISIBLE EMISSIONS INFORMATION

Em	issions Unit Information Section14
Vis	ible Emissions Limitation: Visible Emissions Limitation 2
1.	Visible Emissions Subtype : VE
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 :
	Not applicable
5.	Visible Emissions Comment :
	Excess emission resulting from startup, shutdown, or malfunction. Maximum period of excess emission allowed is 2 hours in any 24-hour period. FDEP Rule 62-210.700(1), F.A.C.

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

En	nissions Unit Information Section14
Ot	her Material Handling Sources
<u>PS</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.
[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 Consu	ming for Nitroge	n Dioxide?			
]	•	as undergone F			review as part of this n dioxide. If so, emissio	ns
]	paragraph (c) of the emissions u	f the definition on the definition on the definition of the defini	of "major sour of this section o	ce of air pollution" in commenced (or will c	major source pursuant to Chapter 62-213, F.A.C. commence) construction missions unit consumes	, and
[emissions unit b	egan initial ope	ration after F		major source, and the before March 28, 1988. crement.	lf
[•			will begin) initial ope ions unit consumes	ration after March 28, 19 increment.	988.
[X	such case, addi	tional analysis, es in emissions l	beyond the so	cope of this applicati	ons unit are nonzero. In on, is needed to determ the baseline date that m	ine
3.	Increment Consu	ming/Expandin	g Code :			
	PM : SO2 : NO2 :	U				
4.	Baseline Emissio	ns :				
	PM : SO2 : NO2 :	2.6600 0.0000	lb/hour lb/hour	0.000	00 tons/year 00 tons/year 00 tons/year	
5.	PSD Comment :					
	Emissions unit is pa	art of baseline PS	D emission inve	entory.		

I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 14

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

Other Material Handling Sources	
Supplemental Requirements for All Applications	
1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	NA
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	NA
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	Appendix A
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 :	NA
III. Part 13 - 27	

13. Identification of A	dditional Applicable Requirements :	Appendix A
14. Acid Rain Applica	tion (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form I	No. 62-210.900(1)(a))
NA	Repowering Extension Plan (For	m No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 6	62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No	o. 62-210.900(1)(a)3.)
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