



**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: <b>Douglas H. Finke</b> <b>General Manager, F.J. Gannon Stn.</b>	
2. Owner/Authorized Representative or Responsible Official Mailing Address:  Organization/Firm: <b>Tampa Electric Company</b> Street Address: <b>P.O. Box 111</b> City: <b>Tampa</b> State: <b>FL</b> Zip Code: <b>33601-0111</b>	
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: <b>(813) 641-5400</b> Fax: <b>(813) 641-5418</b>	
4. Owner/Authorized Representative or Responsible Official Statement:  <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>	
<u><i>Douglas H. Finke</i></u> Signature	<u>2-18-97</u> Date

\* Attach letter of authorization if not currently on file.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>
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



**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>
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 :

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 :

**Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.**

This 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 Rule 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 :

**Category III : All Air Construction Permit Applications for All Facilities and Emissions Units**

This 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

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.

**Application Processing Fee**

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 :

**Professional Engineer Certification**

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

2. Professional Engineer Mailing Address:

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

3. Professional Engineer Telephone Numbers:

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

4. Professional Engineer Statement:

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

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

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

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

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

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

*Thomas M. Owen*  
\_\_\_\_\_  
Signature

6/5/96  
\_\_\_\_\_  
Date

(seal)

\* 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.*

*Thomas R. Quinn*  
Signature

2/17/97  
Date

(seal)

\* 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

1. Facility Owner or Operator : Tampa Electric Company			
2. Facility Name : F.J. Gannon Station			
3. Facility Identification Number : 0570040			
4. Facility Location Information :  Tampa Electric Company F.J. Gannon Station Port Sutton Road, Tampa, Hillsborough County, Florida Existing, Permitted Facility  Facility Street Address : Port Sutton Road City : Tampa County : Hillsborough                      Zip Code :			
5. Facility UTM Coordinates :  Zone : 17                      East (km) : 360.00                      North (km) : 3087.50			
6. Facility Latitude/Longitude :  Latitude (DD/MM/SS) :                      Longitude (DD/MM/SS) :			
7. Governmental Facility Code :  0	8. Facility Status Code :  A	9. Relocatable Facility ?  N	10. Facility Major Group SIC Code :  49
11. Facility Comment :  NA			

**Facility Contact**

**1. Name and Title of Facility 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 Applicability Analysis**

Not applicable

## B. FACILITY REGULATIONS

### List of Applicable Regulations

See Appendix A

### C. FACILITY POLLUTANT INFORMATION

**Facility Pollutant Information**

Pollutant   1  

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 - SO <sub>2</sub> , NO <sub>X</sub> , PM, PM <sub>10</sub> , CO, VOC, HAPS, H106 (HCl), H107 (HF), SAM 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

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

**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 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 1

**Emissions Unit Description and Status**

<p>1. Description of Emissions Unit Addressed in This Section :</p> <p>Unit No. 1 - Solid Fuel-Fired Steam Generator</p>		
<p>2. ARMS Identification Number : 001</p>		
<p>3. Emissions Unit Status Code :</p> <p style="text-align: center;">A</p>	<p>4. Acid Rain Unit?</p> <p style="text-align: center;">Y</p>	<p>5. Emissions Unit Major Group SIC Code :</p> <p style="text-align: center;">49</p>
<p>6. Initial Startup Date :</p>		
<p>7. Long-term Reserve Shutdown Date :</p>		
<p>8. Package Unit :</p> <p>Manufacturer :</p> <p>Model Number :</p>		
<p>9. Generator Nameplate Rating : 125 MW</p>		
<p>10. Incinerator Information :</p> <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
<p>11. Emissions Unit Comment :</p> <p>a) Babcock &amp; Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).</p> <p>b) No. 2 fuel oil used for ignition during start-up.</p> <p>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.</p>		

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 MMBtu/hour on a monthly average 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 Section**       1  

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Rule Applicability Analysis**

Not applicable



## 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 1

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 Emissions 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
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     1    

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Segment Description and Rate :** Segment     1    

<b>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</b>  Coal, petroleum coke/coal blend, TDF/coal blend, and coal/petroleum.coke/TDF-blend-burned, with some paper pellets and yard clippings.	
<b>2. Source Classification Code (SCC) :</b> 1-01-002-03	
<b>3. SCC Units :</b> Tons Burned (all solid fuels)	
<b>4. Maximum Hourly Rate :</b> 50.00	<b>5. Maximum Annual Rate :</b> 438,000.00
<b>6. Estimated Annual Activity Factor :</b>	
<b>7. Maximum Percent Sulfur :</b> 1.30	<b>8. Maximum Percent Ash :</b> 7.90
<b>9. Million Btu per SCC Unit :</b> 25	
<b>10. Segment Comment :</b>  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)	

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  

1. 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.	

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - 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 :	3,016.80	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		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	Potential emissions set equal to allowable emissions. Emission unit pollutant regulatory codes: EL - SO2, PM WP - None		

III. Part 9a - 7

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 1

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 :	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 Section 1

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

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Pollutant Potential/Estimated Emissions :**      Pollutant 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 Emissions:		to	tons/year
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable emission		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		

Emissions Unit Information Section 1

Pollutant Information Section 2

Allowable 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

**Visible Emissions Limitation :** Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE									
2. Basis for Allowable Opacity :	RULE									
3. Requested Allowable Opacity :	<table><tr><td>Normal Conditions :</td><td>20</td><td>%</td></tr><tr><td>Exceptional Conditions :</td><td>27</td><td>%</td></tr><tr><td>Maximum Period of Excess Opacity Allowed :</td><td>6</td><td>min/hour</td></tr></table>	Normal Conditions :	20	%	Exceptional Conditions :	27	%	Maximum Period of Excess Opacity Allowed :	6	min/hour
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.									

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

**Visible Emissions Limitation :** Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

**Visible Emissions Limitation :** Visible Emissions Limitation 3

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 emissions 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

**Visible Emissions Limitation :** Visible Emissions Limitation 4

1. Visible Emissions Subtype :	YES
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 emissions resulting from boiler startup and shutdown. FEDP Rule 62-210.700(2), F.A.C.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 1

Visible Emissions Limitation : Visible Emissions Limitation 5

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.



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	M400
Serial Number :	400B-3400-0009
4. Installation Date :	01-Oct-1985
5. Performance Specification Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-48234-280
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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 one backup system shared among Emission Units 1, 2, and 3.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	<p>Manufacturer : Thermo Environmental Corporation Model Number : 42D Serial Number : 42D-47869-279</p>
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	<p>Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 1, 2, and 3.</p>

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401630
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one flow monitor.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Siemens
Model Number :	5E
Serial Number :	E2-756
4. Installation Date :	01-Jul-1994
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 1, 2, and 3.

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

Emissions Unit Information Section 1

Unit No. 1 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 Section 1

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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

**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 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. 2 - Solid Fuel-Fired Steam Generator		
2. ARMS Identification Number : 002		
3. Emissions Unit Status Code :  <p style="text-align: center;">A</p>	4. Acid Rain Unit?  <p style="text-align: center;">Y</p>	5. Emissions Unit Major Group SIC Code :  <p style="text-align: center;">49</p>
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit :  Manufacturer : Model Number :		
9. Generator Nameplate Rating : 125 MW		
10. Incinerator Information :  <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
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

**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 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

### Rule Applicability Analysis

Not applicable



## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 2

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 Flow Diagram :	CS-002
2. Emission Point Type Code :	1
3. Descriptions of Emission Points Comprising this Emissions Unit :	Unit No. 2 - 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 :	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 (km) : 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

<b>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</b>  Coal, petroleum coke/coal blend, TDF/coal blend, and coal/petroleum coke/TDF blend burned, with some paper pellets and yard clippings.	
<b>2. Source Classification Code (SCC) :</b> 1-01-002-03	
<b>3. SCC Units :</b> Tons Burned (all solid fuels)	
<b>4. Maximum Hourly Rate :</b> 50.00	<b>5. Maximum Annual Rate :</b> 438,000.00
<b>6. Estimated Annual Activity Factor :</b>	
<b>7. Maximum Percent Sulfur :</b> 1.30	<b>8. Maximum Percent Ash :</b> 7.90
<b>9. Million Btu per SCC Unit :</b> 25	
<b>10. Segment Comment :</b>  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 activity. e. Maximum hourly rate (Field 4), maximum annual rate (Field 5), and Btu/SCC unit value (Field 9)	

III. Part 8 - 1

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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 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 : 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.	

III. Part 8 - 3

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

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## E. POLLUTANT INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - 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 :	3,016.80	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		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>Potential emissions set equal to allowable emissions.  Emission unit pollutant regulatory codes:  EL - SO2, PM  WP - None</p>		

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 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 :	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 Section 2

Pollutant Information Section 1

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

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 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 Emissions:		to	tons/year
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :	2		
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		

Emissions Unit Information Section 2

Pollutant Information Section 2

Allowable 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 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 Emissions Comment (Desc. of Related Operating Method/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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 2

Visible Emissions Limitation : Visible Emissions Limitation 5

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.



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	M400
Serial Number :	400B-44871-B62/
4. Installation Date :	01-Oct-1993
5. Performance Specification Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	<p>Manufacturer : Thermo Environmental Corporation Model Number : 43B Serial Number : 43B-48170-279</p>
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	<p>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..</p>

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42D
Serial Number :	42D-47875-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401625
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one flow monitor.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Siemens
Model Number :	5E
Serial Number :	D0-669
4. Installation Date :	01-Jul-1994
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 1, 2, and 3.

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

Emissions Unit Information Section 2

Unit No. 2 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 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 Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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) :

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

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

**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 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**

<p>1. Description of Emissions Unit Addressed in This Section :</p> <p>Unit No. 3 - Solid Fuel-Fired Steam Generator</p>		
<p>2. ARMS Identification Number : 003</p>		
<p>3. Emissions Unit Status Code :</p> <p style="text-align: center;">A</p>	<p>4. Acid Rain Unit?</p> <p style="text-align: center;">Y</p>	<p>5. Emissions Unit Major Group SIC Code :</p> <p style="text-align: center;">49</p>
<p>6. Initial Startup Date :</p>		
<p>7. Long-term Reserve Shutdown Date :</p>		
<p>8. Package Unit :</p> <p>Manufacturer :</p> <p>Model Number :</p>		
<p>9. Generator Nameplate Rating : 180 MW</p>		
<p>10. Incinerator Information :</p> <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
<p>11. Emissions Unit Comment :</p> <p>a) Babcock &amp; Wilcox steam powered electric generating (See Process Flow Diagram in Document II.D.3).</p> <p>b) No. 2 fuel oil used for ignition during start-up.</p> <p>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.</p>		

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**      3

**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 on a monthly 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

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 Emissions 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 Associated Operating Method/Mode) :  Coal, petroleum coke/coal blend, TDF/coal blend, and coal/petroleum coke/TDF blend burned, with some papper 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 :      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 :  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 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 12,300 Btu/lb.

III. Part 8 - 2

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

Revision 1, 02/19/97

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - 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 3 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 : 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. Startup include 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 - 23

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

Revision 1, 02/19/97

## E. POLLUTANT INFORMATION

Emissions Unit Information Section     3    

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/hour	16,808.70      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		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p style="margin-left: 40px;">Potential emissions set equal to allowable emissions.  Emission unit pollutant regulatory code:  EL - SO2, PM  WP - None</p>		

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 3

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 :	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 Section 1

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 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

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 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/hour	875.50 tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		

Emissions Unit Information Section 3

Pollutant Information Section 2

Allowable 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.		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

**Visible Emissions Limitation :** Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE									
2. Basis for Allowable Opacity :	RULE									
3. Requested Allowable Opacity :	<table><tr><td>Normal Conditions :</td><td>20</td><td>%</td></tr><tr><td>Exceptional Conditions :</td><td>27</td><td>%</td></tr><tr><td>Maximum Period of Excess Opacity Allowed :</td><td>6</td><td>min/hour</td></tr></table>	Normal Conditions :	20	%	Exceptional Conditions :	27	%	Maximum Period of Excess Opacity Allowed :	6	min/hour
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.									

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

**Visible Emissions Limitation :** Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

**Visible Emissions Limitation :** Visible Emissions Limitation 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 3

Visible Emissions Limitation : Visible Emissions Limitation 5

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.



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	Manufacturer : Thermo Environmental Corporation Model Number : M400 Serial Number : 400B-3500
4. Installation Date :	01-Oct-1993
5. Performance Specification Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-48171-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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..

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** 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 Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401629
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one flow monitor.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Siemens
Model Number :	5E
Serial Number :	E3-727
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	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

Emissions Unit Information Section 3

Unit No. 3 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :	479.7000 lb/hour	875.5000 tons/year
SO2 :	3837.6000 lb/hour	16808.7000 tons/year
NO2 :		10820.6000 tons/year

5. PSD Comment :

Emission unit is part of baseline PSD emission inventory.  
Hourly emission rates are daily 3-hour averages.

# BEST AVAILABLE COPY

## I. EMISSIONS UNIT 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 Test Report :	NA
6. Procedure for Testing of Control Equipment :	III.I.6
7. Operation and Maintenance Plan :	III.I.7
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rules or Regulations :	Appendix A

### Additional Supplemental Requirements for Construction Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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

Emissions Unit Information Section 4

Unit No. 4 - 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 Description and Status**

<p>1. Description of Emissions Unit Addressed in This Section :</p> <p>Unit No. 4 - Solid Fuel-Fired Steam Generator</p>		
<p>2. ARMS Identification Number : 004</p>		
<p>3. Emissions Unit Status Code :</p> <p style="text-align: center;">A</p>	<p>4. Acid Rain Unit?</p> <p style="text-align: center;">Y</p>	<p>5. Emissions Unit Major Group SIC Code :</p> <p style="text-align: center;">49</p>
<p>6. Initial Startup Date :</p>		
<p>7. Long-term Reserve Shutdown Date :</p>		
<p>8. Package Unit :</p> <p>Manufacturer :</p> <p>Model Number :</p>		
<p>9. Generator Nameplate Rating : 188 MW</p>		
<p>10. Incinerator Information :</p> <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
<p>11. Emissions Unit Comment :</p> <p>a) Babcock &amp; Wilcox steam powered electric generating (See Process Flow Diagram in Document I.D.3).</p> <p>b) No. 2 fuel oil used for ignition during startup.</p> <p>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.</p>		

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 on a monthly average basis.

**Emissions Unit Information 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**          4    

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 Flow Diagram :	CS-004 a, b
2. Emission Point Type Code :	3
3. Descriptions of Emission Points Comprising this Emissions Unit ;	Unit 4 - 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 :	9.60 feet
8. Exit Temperature :	277 °F
9. Actual Volumetric Flow Rate :	693,900 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 actual volumetric flow rate is the total 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    

<b>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</b>  Coal, petroleum coke/coal blend, TDF/coal blend, and coal/petroleum coke/TDF blend burned, with some paper pellets and yard clippings.	
<b>2. Source Classification Code (SCC) :</b> -1-01-002-03	
<b>3. SCC Units :</b> Tons Burned (all solid fuels)	
<b>4. Maximum Hourly Rate :</b> 80.00	<b>5. Maximum Annual Rate :</b> 700,800.00
<b>6. Estimated Annual Activity Factor :</b>	
<b>7. Maximum Percent Sulfur :</b> 1.30	<b>8. Maximum Percent Ash :</b> 7.90
<b>9. Million Btu per SCC Unit :</b> 23	
<b>10. Segment Comment :</b>  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 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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : 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. 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. 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

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

Revision 1, 02/19/97

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO <sub>2</sub>		
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 Emissions:		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 Comment :	Potential emissions set equal to allowable emissions. Emissions unit pollutant regulatory code: EL - SO <sub>2</sub> , PM WP - None		

III. Part 9a - 1

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

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 4

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 :	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 Section 4

Pollutant Information Section 1

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 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 Emissions :      Pollutant 2

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 Emissions:	to      tons/year		
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		

Emissions Unit Information Section 4

Pollutant Information Section 2

Allowable 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.		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

**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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	YES
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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

**Visible Emissions Limitation :** Visible Emissions Limitation 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

**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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 4

**Visible Emissions Limitation :** Visible Emissions Limitation 5

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.



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	M701
Serial Number :	400-0010-3298
4. Installation Date :	01-Dec-1983
5. Performance Specification Test Date :	
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-47685-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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 two SO2 monitors for two stacks, with one backup system shared among Emission Units 4, 5, and 6.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42D
Serial Number :	42D-47874-279
4. Installation Date :	01-Jul-1994
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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401628
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes two flow monitors for two stacks.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Siemens
Model Number :	5E
Serial Number :	D9-572
4. Installation Date :	
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes two CO2 monitors for two stacks, with one backup system shared among Emission Units 4, 5, and 6.

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

Emissions Unit Information Section 4

Unit No. 4 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :	562.7999 lb/hour	1027.0999 tons/year
SO2 :	4502.3999 lb/hour	19720.5000 tons/year
NO2 :		12695.1000 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 4

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 Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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

Emissions Unit Information Section 5

Unit No. 5 - 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 Description and Status**

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

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 monthly 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

Emissions Unit Information Section 5

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 :	1
3. Descriptions of Emission Points Comprising this Emissions Unit :	Unit No. 5 - 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 :	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) : 3087.500
14. Emission Point Comment :	

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

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) : 1-01-002-01	
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	
10. Segment Comment :  <ul style="list-style-type: none"> <li>a. No. 2 fuel oil is used for ignition during startup (See Segment 2).</li> <li>b. Fluxing agents may be added to fuel.</li> <li>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.).</li> <li>d. Up to 50 gal/min of nonhazardous boiler cleaning waste water may be injected into boiler during firing as a routine maintenance activity.</li> <li>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 12,227 Btu/lb.</li> </ul>	

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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  

<b>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</b> Distillate (No. 2) fuel oil burned in Unit 5 for startup.	
<b>2. Source Classification Code (SCC) :</b> 1-01-005-01	
<b>3. SCC Units :</b> Thousand Gallons Burned (all liquid fuels)	
<b>4. Maximum Hourly Rate :</b> 1.44	<b>5. Maximum Annual Rate :</b> 260.00
<b>6. Estimated Annual Activity Factor :</b>	
<b>7. Maximum Percent Sulfur :</b> 0.50	<b>8. Maximum Percent Ash :</b>
<b>9. Million Btu per SCC Unit :</b> 136	
<b>10. Segment Comment :</b>  No. 2 fuel oil is 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.	

## 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 :	SO2		
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 Emissions:		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 Comment :	<p>Potential emissions set equal to allowable emissions.  Emission unit pollutant regulatory code:  EL - SO2, PM  WP - None</p>		

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 5

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 :	2.40	lb/MMBtu	
4. Equivalent Allowable Emissions :	5,481.60	lb/hour	24,009.40 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 AO29-203511. FDEP Rule 62-296.405(1)(c)2.a., F.A.C.		

Emissions Unit Information Section 5

Pollutant Information Section 1

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 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

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

Pollutant Potential/Estimated Emissions :      Pollutant 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/hour	1,250.20      tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		

Emissions Unit Information Section 5

Pollutant Information Section 2

Allowable 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.		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 5

**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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 5

**Visible Emissions Limitation :** Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 5

**Visible Emissions Limitation :** Visible Emissions Limitation 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 5

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 5

**Visible Emissions Limitation :** Visible Emissions Limitation 5

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 62-210.70091), F.A.C.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	<p>Manufacturer : Thermo Environmental Corporation Model Number : M500 Serial Number : 400B-29005-233/</p>
4. Installation Date :	01-Nov-1990
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	<p>Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes one opacity monitor.</p>



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-47690-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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 one backup system shared among Emission Units 4, 5, and 6.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	42D
Serial Number :	42D-47878-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 4, 5, and 6.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401631
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one flow monitor.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

**Continuous Monitoring System :** Continuous Monitor 5

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	Manufacturer : Siemens Model Number : 5E Serial Number : 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

Emissions Unit Information Section 5

Unit No. 5 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :	685.2000 lb/hour	1250.5000 tons/year
SO2 :	5481.6000 lb/hour	24009.4000 tons/year
NO2 :		15456.1000 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 5

Unit No. 5 - 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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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

Emissions Unit Information Section 6

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 Description and Status**

1. Description of Emissions Unit Addressed in This Section :  Unit No. 6 - Solid Fuel-Fired Steam Generator		
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 Shutdown Date :		
8. Package Unit :  Manufacturer : Model Number :		
9. Generator Nameplate Rating : 446 MW		
10. Incinerator Information :  Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
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 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

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 on a monthly 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**

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

**Rule Applicability Analysis**

Not applicable

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 6

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 Diagram :	CS-006		
2. Emission Point Type Code :	1		
3. Descriptions of Emission Points Comprising this Emissions Unit :	Unit No. 6 - 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 :	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 :	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 6

Unit No. 6 - 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) : 1-01-002-01	
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 :	
<ul style="list-style-type: none"> <li>a. No. 2 fuel oil is used for ignition during startup (See Segment 2).</li> <li>b. Fluxing agents may be added to fuel.</li> <li>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.).</li> <li>d. Up to 50 gal/min of nonhazardous boiler cleaning waste water may be injected into boiler during firing as a routine maintenance activity.</li> <li>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.</li> </ul>	

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## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

**Segment Description and Rate :** Segment 2

<b>1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :</b> Distillate (No. 2) fuel oil burned in Unit 6 for startup.	
<b>2. Source Classification Code (SCC) :</b> 1-01-005-01	
<b>3. SCC Units :</b> Thousand Gallons Burned (all liquid fuels)	
<b>4. Maximum Hourly Rate :</b> 2.16	<b>5. Maximum Annual Rate :</b> 430.00
<b>6. Estimated Annual Activity Factor :</b>	
<b>7. Maximum Percent Sulfur :</b> 0.50	<b>8. Maximum Percent Ash :</b>
<b>9. Million Btu per SCC Unit :</b> 136	
<b>10. Segment Comment :</b>  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.	

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - 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 :	9,115.20	lb/hour	39,924.60 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		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	Potential emissions set equal to allowable emissions. Emission unit pollutant regulatory code: EL - SO2, PM WP - None		

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 6

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 :	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.		

Emissions Unit Information Section 6

Pollutant Information Section 1

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 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

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 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/hour	2,079.40 tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :	0.30		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>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.</p>		



Emissions Unit Information Section 6

Pollutant Information Section 2

Allowable 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 6

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 6

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VES
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : %
	Exceptional Conditions : 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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 6

Visible Emissions Limitation : Visible Emissions Limitation 3

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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 6

**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 :	
	Contonuous Emission Monitoring
5. Visible Emissions Comment :	
	Excess emission resulting from boiler startup and shutdown. FDEP Rule 62-210.700(2), F.A.C.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 6

Visible Emissions Limitation : Visible Emissions Limitation 5

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.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	VE
2. CMS Requirement :	RULE
3. Monitor Information :	<p>Manufacturer : Thermo Environmental Corporation Model Number : M500 Serial Number : 400B-29003-233/</p>
4. Installation Date :	01-Jan-1991
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	<p>Required per 40 CFR Part 75 and FDEP Rule 62-296.405(1)(f)1.a., F.A.C. System includes one opacity monitor.</p>

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	SO2
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	Thermo Environmental Corporation
Model Number :	43B
Serial Number :	43B-47689-279
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
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 one backup system shared among Emission Units 4, 5, and 6.



## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 3

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	<p>Manufacturer : Thermo Environmental Corporation Model Number : 42D Serial Number : 42D-47900-279</p>
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	<p>Required per 40 CFR Part 75. System includes one NOx monitor, with one backup system shared among Emission Units 4, 5, and 6.</p>

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 4

1. Parameter Code :	FLOW
2. CMS Requirement :	RULE
3. Monitor Information :	
Manufacturer :	USI
Model Number :	100
Serial Number :	9401684
4. Installation Date :	01-Jul-1994
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	
	Required per 40 CFR Part 75. System includes one flow monitor.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

Continuous Monitoring System : Continuous Monitor 5

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 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

Emissions Unit Information Section 6

Unit No. 6 - Solid Fuel-Fired Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] 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 :	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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	III.I.10
11. Alternative 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

Emissions Unit Information Section 7

Combustion Turbine 1

**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 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 :  Combustion Turbine I		
2. ARMS Identification Number : 007		
3. Emissions Unit Status Code :  A	4. Acid Rain Unit?  N	5. Emissions Unit Major Group SIC Code :  49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit :  Manufacturer : Model Number :		
9. Generator Nameplate Rating : 14 MW		
10. Incinerator Information :  Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment :  a) Combustion turbine rated at 14 MW. b) Combustion Turbine I is a "regulated" emissions unit.		

Emissions Unit Information Section

7

Combustion Turbine 1

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate :	256 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 :	NA	

**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**       7  

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

Emissions Unit Information Section 7

Combustion Turbine 1

#### 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 Emission 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) : 3087.500
14. Emission Point Comment :	

## 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 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 liquid 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 Percent Ash :
9. Million Btu per SCC Unit : 136	
10. Segment Comment :	

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 7

Combustion Turbine 1

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 :	129.50	lb/hour	567.40 tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:			to tons/year
8. Emissions Factor :	0.51		
Units :	lb/MMBtu		
Reference :	Allowable Emissions		
9. Emissions Method Code :	1		
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	<p>Emission factor based on 0.5 weight percent fuel oil                      Potential emissions set equal to allowable emission rate.                      Emission unit pollutant regulatory code:                      EL - SO2, PM</p>		



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 Unit Information Section 7

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 tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :	0.03		
Units :	gr/dscf		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :	See Appendix C		
11. Pollutant Potential/Estimated Emissions Comment :	NA		

Emissions Unit Information Section 7

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.03	gr/dscf	
4. Equivalent Allowable Emissions :	122.10	lb/hour	534.80 tons/year
5. Method of Compliance :	EPA Reference Method 9 once every 5 years, per FDEP Rule 62-297.310(7)(a)3.b., F.A.C.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	FDEP Rule 62-296.712(2), F.A.C., per Specific Condition No. 6 of Permit AO29-252615.		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 7

Visible Emissions Limitation : 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

Emissions Unit Information Section 7

**Visible 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. FEDP Rule 62-210.700(1), F.A.C.

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

Emissions Unit Information Section 7

Combustion Turbine 1

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :	9.6999 lb/hour	42.7000 tons/year
SO2 :	129.5000 lb/hour	567.4000 tons/year
NO2 :		784.2000 tons/year

5. PSD Comment :

Emission unit is part of baseline PSD emission inventory.

## I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 7

Combustion Turbine I

### 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 Only

10. Alternative Methods of Operations :	NA
11. Alternative 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

Emissions Unit Information Section 8

Solid Fuel Bunkers (all solid fuel-fired units)

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 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 :  Solid Fuel Bunkers (all solid fuel-fired units)		
2. ARMS Identification Number :      008		
3. Emissions Unit Status Code :  <p style="text-align: center;">A</p>	4. Acid Rain Unit?  <p style="text-align: center;">N</p>	5. Emissions Unit Major Group SIC Code :  <p style="text-align: center;">49</p>
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit :  Manufacturer : Model Number :		
9. Generator Nameplate Rating :                      MW		
10. Incinerator Information :  <p style="text-align: right;">Dwell Temperature :                      °F</p> <p style="text-align: right;">Dwell Time :                                  seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature :                      °F</p>		
11. Emissions Unit Comment :  The solid fuel bunkers are a "regulated" emissions unit.		

**Emissions Unit Information Section**      8

**Emissions Unit Control Equipment**      1

1. Description :	
Roto-Clones (Centrifugal Collector - Low 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**

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	1600	
	Units :	ton/hour/bunker
4. Maximum Production Rate :		
	Units :	
5. Operating Capacity Comment :		
	NA	

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

Emissions Unit Information Section 8

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 FH-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 Bunkers 1-6
4. ID Numbers or Descriptions of Emission Units with this Emission Point 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                      North (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.

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 8

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 FH-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 Bunkers 1-6
4. ID Numbers or Descriptions of Emission Units with this Emission Point 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
	North (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.

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 8

Solid Fuel Bunkers (all solid fuel-fired units)

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Coal Handling	
2. Source Classification Code (SCC) : 3-05-101-03	
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 :**      Pollutant 1

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 Emissions:		to	tons/year
8. Emissions Factor :	0.19		
Units :	lb/hour, each		
Reference :	Allowable Emissions		
9. Emissions Method Code :	3		
10. Calculations of Emissions :			
11. Pollutant Potential/Estimated Emissions Comment :	<p>Potential emission set equal to allowable emission.  Emission unit pollutant regulatory code:  EL - PM  WP - None</p>		

NS - None

Emissions Unit Information Section 8

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

**Visible Emissions Limitation :** 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

Emissions Unit Information Section 8

Visible 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

Emissions Unit Information Section 8

Solid Fuel Bunkers (all solid fuel-fired units)

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :		
NO2 :		
4. Baseline Emissions :		
PM :	0.1700 lb/hour	0.9900 tons/year
SO2 :	0.0000 lb/hour	0.0000 tons/year
NO2 :		0.0000 tons/year
5. PSD Comment :		
Emission unit is part of baseline PSD emission inventory.		

## 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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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 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 :  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 Shutdown 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 :  Fugitive emissions associated with solid fuel handling. This emission unit addresses fugitive emission sources FH-001 through FH-035 and FH-042 through FH-044. Fluxing agent may also be handled by the equipment within this emissions unit. The solid fuel handling and storage sources emissions unit is a "regulated" emissions unit.		

**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 Unit 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

Emissions Unit Information Section 9

Solid Fuel Handling and Storage Sources (all sources)

### Rule Applicability Analysis

Not applicable

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 9

Solid Fuel Handling and Storage Sources (all sources)

### List of Applicable Regulations

See Appendix A

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-002 - Fuel Handling - Barge to West 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-003 - Fuel Handling - Barge to Continuous Unloader
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-004 - Fuel Handling - East Clamshell to East Hopper
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 :	



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-005 - Fuel Handling - West Clamshell to West Hopper
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-006 - Fuel Handling - Continuous Unloader to Conveyor A
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-007 - Fuel Handling - Conveyor A to Continuous Feeder
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 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 :	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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-009 - Fuel Handling -West Hopper to Conveyor B
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-012 - Fuel Handling - Conveyor C to Conveyor D1/D2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-013 - Fuel Handling - Rail Car to Hopper
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 :	



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-014 - Fuel Handling - Hopper to Conveyor L
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-015 -Fuel Handling - Conveyor L to Conveyor D1/D2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-016 - Fuel Handling - Conveyor D1 to Conveyor M1
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-017 - Fuel Handling - Conveyor D2 to Conveyor M2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	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
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-019 - Fuel Handling - Conveyor M2 to Conveyor E2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-020 - Fuel Handling - Conveyor E1 to Storage Pile
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-021 - Fuel Handling - Conveyor E2 to Storage Pile	
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 :		



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-022 - Fuel Storage - North Storage Pile
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-023a - Fuel Storage - East Portion of South Storage Pile				
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 :					

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-023b - Fuel Storage - West Portion of South Storage Pile
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-024 - Fuel Handling - Underground Reclaim System to Conveyor F1	
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 :		

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-025 - Fuel Handling - Underground Reclaim System to Conveyor F4
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-026 - Fuel Handling - Underground Reclaim System to Conveyor F3
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 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
	North (km) : 3,087.500
14. Emission Point Comment :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 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) : 3,087.500
14. Emission Point Comment :	



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	
FH-029 - Fuel Handling - Conveyor F4 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-031 - Fuel Handling - Conveyor 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 :	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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-032 - Fuel Handling - Conveyor G1 to Hammermill Crusher 1	
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 :		

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-033 - Fuel Handling - Conveyor G2 to Hammermill Crusher 2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-034 - Fuel Handling - Hammermill Crusher I to Conveyor HI
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-035 - Fuel Handling - Hammermill Crusher 2 to-Conveyor H2
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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-042 - Fuel Handling - Conveyor D1 to Conveyor G1/G2 (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 :	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 :	



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 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 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 :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	FH-044 - Fuel Handling - Storage Pile Maintenance
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 :	

**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) : 3-05-102-03	
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

Emissions Unit Information Section 9

Solid Fuel Handling and Storage Sources (all sources)

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	PM		
2. Total Percent Efficiency of Control :	%		
3. Primary Control Device Code :	054		
4. Secondary Control Device Code :	062		
5. Potential Emissions :	lb/hour	tons/year	
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :			
Units :			
Reference :			
9. Emissions Method Code :			
10. Calculations of Emissions :			
11. Pollutant Potential/Estimated Emissions Comment :			
Emission unit pollutant regulatory code:			
EL - None			
WP - PM			
NS - None			

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## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9

Visible Emissions Limitation : Visible Emissions Limitation 1

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 :	
	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.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 9

Visible 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, F.A.C.

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

Emissions Unit Information Section 9

Solid Fuel Handling and Storage Sources (all sources)

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :  
NO2 :

4. Baseline Emissions :

PM :	0.6400 lb/hour	0.6100 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 9

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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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

Emissions Unit Information Section 10

Units 1-4 Flyash Silo (Fly Ash Silo No. 2)

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 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**

<p>1. Description of Emissions Unit Addressed in This Section :</p> <p>Units 1-4 Flyash Silo (Fly Ash Silo No. 2)</p>		
<p>2. ARMS Identification Number : 010</p>		
<p>3. Emissions Unit Status Code :</p> <p style="text-align: center;">A</p>	<p>4. Acid Rain Unit?</p> <p style="text-align: center;">N</p>	<p>5. Emissions Unit Major Group SIC Code :</p> <p style="text-align: center;">49</p>
<p>6. Initial Startup Date :</p>		
<p>7. Long-term Reserve Shutdown Date :</p>		
<p>8. Package Unit :</p> <p>Manufacturer :</p> <p>Model Number :</p>		
<p>9. Generator Nameplate Rating : MW</p>		
<p>10. Incinerator Information :</p> <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
<p>11. Emissions Unit Comment :</p> <p>The Fly Ash Silo No. 2 emissions unit is a "regulated" emissions unit.</p>		

**Emissions Unit Information Section**      10

**Emissions Unit Control Equipment**      1

1. Description :

Baghouse - Fabric Filter - High Temperature

2. Control Device or Method Code :      16

**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



## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 10

Units 1-4 Flyash Silo (Fly Ash Silo No. 2)

### List of Applicable Regulations

See Appendix A

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information 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 :	FA-001
2. Emission Point Type Code :	1
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 Emission 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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Flyash Handling and Storage	
2. Source Classification Code (SCC) : 3-05-009-99	
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	%			
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 Emissions:			to	tons/year	
8. Emissions Factor :	0.03				
Units :	gr/dscf				
Reference :	Allowable Emissions				
9. Emissions Method Code :					
10. Calculations of Emissions :					
11. Pollutant Potential/Estimated Emissions Comment :					
Emissions unit pollutant regulatory code: EL - PM WP - None NS - PM10					

Emissions Unit Information Section 10

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 :	0.03 gr/dscf
4. Equivalent Allowable Emissions :	1.20 lb/hour 5.30 tons/year
5. Method of Compliance :	Annual testing using EPA Reference Method 9
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	FDEP Rule 62-296.711(2)(b), F.A.C., per Specific Condition No. 2 of Permit AO29-250140.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 10

**Visible 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 Unit Information Section 10

Visible 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

Emissions Unit Information Section 10

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 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. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :		
NO2 :		
4. Baseline Emissions :		
PM :	1.2100 lb/hour	4.4000 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 10

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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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

Emissions Unit Information Section 11

Units 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 Unit Description and Status**

<p>1. Description of Emissions Unit Addressed in This Section :</p> <p>Units 5 - 6 Flyash Silo (Fly Ash Silo No. 1)</p>		
<p>2. ARMS Identification Number : 011</p>		
<p>3. Emissions Unit Status Code :</p> <p style="text-align: right;">A</p>	<p>4. Acid Rain Unit?</p> <p style="text-align: center;">N</p>	<p>5. Emissions Unit Major Group SIC Code :</p> <p style="text-align: right;">49</p>
<p>6. Initial Startup Date :</p>		
<p>7. Long-term Reserve Shutdown Date :</p>		
<p>8. Package Unit :</p> <p>Manufacturer :</p> <p>Model Number :</p>		
<p>9. Generator Nameplate Rating : MW</p>		
<p>10. Incinerator Information :</p> <p style="text-align: right;">Dwell Temperature : °F</p> <p style="text-align: right;">Dwell Time : seconds</p> <p style="text-align: right;">Incinerator Afterburner Temperature : °F</p>		
<p>11. Emissions Unit Comment :</p> <p>The Fly Ash Silo No. 1 emissions unit is a "regulated" emissions unit.</p>		

**Emissions Unit Information Section**      11

**Emissions Unit Control Equipment**      1

1. Description :

Baghouse - Fabric Filter - High Temperature

2. Control Device or Method Code :      16

**Emissions Unit Information Section**

11

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

**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 :	13	
	Units :	tons/hour
4. Maximum Production Rate :		
	Units :	
5. Operating Capacity Comment :		
	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

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

### Rule Applicability Analysis

Not applicable

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 11

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 Emissions Unit :	Units 5 and 6 Flyash Silo (Fly Ash Silo No. 1)
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	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
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 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) : 3-05-009-99	
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 : 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 Emissions:	to tons/year
8. Emissions Factor :	0.03
Units :	gr/dscf
Reference :	Allowable Emissions
9. Emissions Method Code :	
10. Calculations of Emissions :	
11. Pollutant Potential/Estimated Emissions Comment :	
Emissions unit pollutant regulatory code: EL - PM WP - None NS - PM10 (control method code 016)	

Emissions Unit Information Section 11

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 :	0.03	gr/dscf	
4. Equivalent Allowable Emissions :	2.90	lb/hour	12.70 tons/year
5. Method of Compliance :	Annual testing using EPA Reference Method 9.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	FDEP Rule 62-296.711(2)(b), F.A.C., per Specific Condition No.2 of Permit A029-250137.		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 11

**Visible 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 Unit Information Section 11

Visible 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

Emissions Unit Information Section 11

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

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] 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 :		
NO2 :		
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 11

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 Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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

Emissions Unit Information Section 12

Unit 4 Economizer Fly Ash Silo

**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 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**

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

**Emissions Unit Information Section**      12

**Emissions Unit Control Equipment**      1

1. Description :

Baghouse - Fabric Filter - High Temperature

2. Control Device or Method Code :      16

Unit 4 Economizer Fly Ash Silo

**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



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
3. Descriptions of Emission Points Comprising this Emissions Unit :	Unit 4 Economizer Ash Silo
4. ID Numbers or Descriptions of Emission Units with this 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) : 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 Associated Operating Method/Mode) : Flyash Handling and Storage	
2. Source Classification Code (SCC) : 3-05-009-99	
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 4 Economizer Fly Ash Silo

**Pollutant Potential/Estimated Emissions :** 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 :	0.13	lb/hour	0.56 tons/year
6. Synthetically Limited?	N		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :	0.03		
Units :	gr/dscf		
Reference :	Allowable Emissions		
9. Emissions Method Code :			
10. Calculations of Emissions :			
11. Pollutant Potential/Estimated Emissions Comment :	<p>Emissions unit pollutant regulatory code:  EL - PM  WP - None  NS - None</p>		

Emissions Unit Information Section 12

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 :	0.13 lb/hour 0.56 tons/year
5. Method of Compliance :	Annual testing using EPA Reference Method 9.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	FDEP Rule 62-296.711(2)(b), F.A.C., per Specific Condition No. 2 of Permit AO29-218858.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 12

**Visible 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 Unit Information Section 12

Visible 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

Emissions Unit Information Section 12

Unit 4 Economizer Fly Ash Silo

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :		
NO2 :		
4. Baseline Emissions :		
PM :	0.1300 lb/hour	0.5600 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 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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

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 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 :  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 Shutdown 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 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 Handling and Storage Sources (Fugitive Emissions)

**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 :	150	
	Units :	ton/hr
4. Maximum Production Rate :		
	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 Emissions)

### Rule Applicability Analysis

Not applicable

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

### List of Applicable Regulations

See Appendix A

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

**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 Emissions Unit :	FA-002 - Flyash Handling - Units 1-4 Flyash Silo to Tanker Truck
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 :	10 feet
13. Emission Point UTM Coordinates :	Zone : 17                      East (km) : 360.000                      North (km) : 3,087.500
14. Emission Point Comment :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

**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 Emissions Unit :	FA-005 - Flyash Handling - Units 5 and 6 Pugmill and Truck Loading
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 :	10 feet
13. Emission Point UTM Coordinates :	
Zone : 17	East (km) : 360.000
	North (km) : 3,087.500
14. Emission Point Comment :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

**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 Emissions Unit :	FA-007 - Flyash Handling - Unit 4 Economizer Ash to Tanker Truck
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 :	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 Emissions)

**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) :      3-05-009-99	
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

**Visible Emissions Limitation :** Visible Emissions Limitation 1

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 13

**Visible 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

Emissions Unit Information Section 13

Flyash Handling and Storage Sources (Fugitive Emissions)

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :		
NO2 :		
4. Baseline Emissions :		
PM :	1.0400 lb/hour	0.4400 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 13

Flyash Handling and Storage Sources (Fugitive Emissions)

### 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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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

Emissions Unit Information Section 14

Other Material Handling 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 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 :  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 :
A	N	49
6. Initial Startup Date :		
7. Long-term Reserve Shutdown 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 Other Material Handling Sources emissions unit is a "regulated" emissions unit.		

**Emissions Unit Information Section**      14

**Emissions Unit Control Equipment**      1

1. Description :

Dust Suppressant Sprays

2. Control Device or Method Code :      62

Other Material Handling 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 :	Units :	
4. Maximum Production Rate :	60	
Units :	ton/hr	
5. Operating Capacity Comment :		

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

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	OMH-001 - Other Material Handling - Truck Dump to Flux Storage Pile				
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 :	10 feet				
13. Emission Point UTM Coordinates :					
Zone :	17	East (km) :	360.000	North (km) :	3,087.500
14. Emission Point Comment :					

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	OMH-002 - Other Material Handling - Flux Storage Pile Maintenance	
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 :	10 feet	
13. Emission Point UTM Coordinates :		
Zone : 17	East (km) : 360.000	North (km) : 3,087.500
14. Emission Point Comment :		



### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	OMH-003 - Flux Storage Pile
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 :	10 feet
13. Emission Point UTM Coordinates :	
Zone : 17	East (km) : 360.000
	North (km) : 3,087.500
14. Emission Point Comment :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	OMH-004 - Other Material Handling - Conveyor S to Conveyor D1/D2
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 :	10 feet
13. Emission Point UTM Coordinates :	
Zone : 17	East (km) : 360.000
	North (km) : 3,087.500
14. Emission Point Comment :	

### C. EMISSION POINT (STACK/VENT) INFORMATION

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 Emissions Unit :	OMH-005 - Other Material Handling - Underground Reclaim System to Conveyor S
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 :	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 14

Other Material Handling Sources

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Flux Handling	
2. Source Classification Code (SCC) : 3-05-104-99	
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

Emissions Unit Information Section 14

Other Material Handling Sources

**Pollutant Potential/Estimated Emissions :**      Pollutant 1

1. Pollutant Emitted :	PM	
2. Total Percent Efficiency of Control :	50.00	%
3. Primary Control Device Code :	062	
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?	N	
7. Range of Estimated Fugitive/Other Emissions:		to                      tons/year
8. Emissions Factor :		
Units :		
Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		
Emissions unit pollutant regulatory code: EL - None WP - PM NS - None		

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 14

**Visible Emissions Limitation :** Visible Emissions Limitation 1

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 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

Emissions Unit Information Section 14

Visible 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

Emissions Unit Information Section 14

Other Material Handling Sources

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If 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 Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] 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 :  
NO2 :

4. Baseline Emissions :

PM :	2.6600 lb/hour	0.9700 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 14

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 Statute :	Appendix A

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alternative 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) :

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.)