

completed 11-22-03
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BUREAU OF AIR REGULATION

November 17, 2003

Mr. Michael Cooke, Director
Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Rd. MS 5500
Tallahassee, FL 32399-2400

Subject: Additional Responsible Officials for Title V – Florida Power Corporation d/b/a
Progress Energy Florida Hines Energy Complex and **Tiger Bay Plant**

Dear Mr. Cooke:

As the Responsible Official for the Hines Energy Complex and Tiger Bay Plant, I am submitting a Department of Environmental Protection form 62-213.900(8) for each plant to identify additional Responsible Officials.

If you have any questions, please contact me at (863) 519-6103.

Very truly yours,

Roger B. Zirkle

Project 009 - AC permit
Project 010 - Title V Revision

File Copy

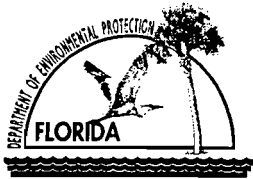
Attachments

- C: Mr. Paul V. Crimi
- Mr. J. Michael Kennedy
- Mr. George Kerst
- Mr. Dennis A. Merrick
- Mr. Leonard Kozlov (FL-DEP)
- Mr. Scott Sheplak (FL-DEP)

Joe,

I think Al told me at one time that this is not PSD. Can you confirm then pass on to Jonathan.

REQUESTED LIMIT OF 38.9 TBY NOX MAKES PROJECT SYNTHETIC MINOR FOR PSD. S/H 5/30



Department of Environmental Protection

Division of Air Resource Management

RESPONSIBLE OFFICIAL NOTIFICATION FORM

Note: A responsible official is not necessarily a designated representative under the Acid Rain Program. To become a designated representative, submit a certificate of representation to the U.S. Environmental Protection Agency (EPA) in accordance with 40 CFR Part 72.24.

Identification of Facility

1. Facility Owner/Company Name: Florida Power Corporation d/b/a Progress Energy Florida, Inc.	
2. Site Name: Hines Energy Complex	3. County: Polk County
4. Title V Air Operation Permit/Project No. (<i>leave blank for initial Title V applications</i>): 1050234-001-AV	

Notification Type (*Check one or more*)

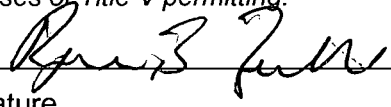
<input type="checkbox"/>	INITIAL:	Notification of responsible officials for an initial Title V application.
<input type="checkbox"/>	RENEWAL:	Notification of responsible officials for a renewal Title V application.
<input checked="" type="checkbox"/>	CHANGE:	Notification of change in responsible official(s).
		Effective date of change in responsible official(s) <u>September 10, 2003</u>

Primary Responsible Official

1. Name and Position Title of Responsible Official: Roger B. Zirkle – Plant Manager	✓ 11-27-03 [Signature]
2. Responsible Official Mailing Address: Organization/Firm: Progress Energy Florida, Inc. Street Address: 100 Central Ave. Mail Code HE44 City: St. Petersburg State: FL Zip Code: 33701	
3. Responsible Official Telephone Numbers: Telephone: (863)519-6103 Fax: (863) 519-6110	
4. Responsible Official Qualification (<i>Check one or more of the following options, as applicable</i>): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.	

5. Responsible Official Statement:

I, the undersigned, am a responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this notification. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this notification are true, accurate and complete. Further, I certify that I have authority over the decisions of all other responsible officials, if any, for purposes of Title V permitting.



Signature

11-17-03

Date

Additional Responsible Official

1. Name and Position Title of Responsible Official: George Kerst, Production Manager – CT	✓ 11-27-03 RM
2. Responsible Official Mailing Address: Organization/Firm: Progress Energy Florida, Inc. Street Address: 100 Central Ave. Mail Code HE44 City: St. Petersburg State: FL Zip Code: 33701	
3. Responsible Official Telephone Numbers: Telephone: 863/519-6101 Fax: (863) 519-6110	
4. Responsible Official Qualification (<i>Check one or more of the following options, as applicable</i>): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.	

Additional Responsible Official

1. Name and Position Title of Responsible Official: Paul V. Crimi, General Manager CT Operations	✓ 11-27-03 RM
2. Responsible Official Mailing Address: Organization/Firm: Progress Energy Florida, Inc. Street Address: 100 Central Ave. Mail Code BB1C City: St. Petersburg State: FL Zip Code: 33701	
3. Responsible Official Telephone Numbers: Telephone: (727) 826-4224 Fax: (727) 826-4222	
4. Responsible Official Qualification (<i>Check one or more of the following options, as applicable</i>): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.	

Additional Responsible Official

1. Name and Position Title of Responsible Official: J. Michael Kennedy, Manager Permitting & Compliance, DR	✓ 11-27-03 gm
2. Responsible Official Mailing Address: Organization/Firm: Progress Energy Florida, Inc. Street Address: 100 Central Ave. Mail Code BB1A City: St. Petersburg State: FL Zip Code: 33701	
3. Responsible Official Telephone Numbers: Telephone: (727) 826-4334 Fax: (727) 826-4216	
4. Responsible Official Qualification (<i>Check one or more of the following options, as applicable</i>): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input checked="" type="checkbox"/> The designated representative at an Acid Rain source.	

11-20-03
ARMIS Updated
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SEP 16 2003

Progress Energy Florida, Inc
Bayboro Plant
160 13th Ave., S.
St. Petersburg, FL 33701

DIVISION OF AIR
RESOURCE MANAGEMENT

Bruce M. Baldwin
Vice President
CT – Operations Department
(727) 826-4201

September 10, 2003

Mr. Howard Rhodes, Director
Florida Department of Environmental Protection
Division of Air Resource Management
2600 Blair Stone Rd. MS 5500
Tallahassee, FL 32399-2400

Subject: Alternate Responsible Officials: Title V Air Permits

Dear Mr. Rhodes:

This letter is intended to delegate the alternate "responsible officials" for Title V air permits for Florida Power Corporation d/b/a Progress Energy Florida combustion turbine facilities. All delegations are made in accordance with a corporate procedure, and each person is duly qualified in accordance with applicable statute and regulation. The delegations being made today are noted on Attachment 1. Each facility will submit a Department of Environmental Protection form 62-213.900(8) at a later date.

By copy of this letter, notification of this delegation is provided to individuals newly authorized to sign on behalf of the company. This letter supersedes and negates any previous correspondence relating to the responsible officials for these facilities. Delegations for Progress Energy facilities not referenced in this letter and provided to you previously are not changed.

Very truly yours,

Bruce M. Baldwin
Vice President – Combustion Turbine Operations

Attachment

- C: Mr. Reginald D. Anderson
- Mr. Ernie L. Bass
- Mr. Paul V. Crimi
- Mr. Martin J. Drango
- Mr. William Dudley
- Mr. Kris Edmondson
- Mr. Wilson B. Hicks, Jr.
- Mr. David R. Karp
- Mr. J. Michael Kennedy
- Mr. Leonard Kozlov (FL-DEP)
- Mr. George Kerst
- Mr. Mike W. Lentz
- Mr. Dennis A. Merrick
- Mr. Scott Sheplak (FL-DEP)
- Mr. Roger B. Zirkle

Attachment 1
Progress Energy Florida Combustion Turbine
Title V Responsible Officials

Facility	Current RO: Plant Managers	Alternate: General Manager CT Operations	Alternate: Production Managers - CT	Alternate: DR if applicable
Avon Park	Kris Edmondson	Paul V. Crimi	William Dudley	
Bayboro	Mike W. Lentz	Paul V. Crimi	David R. Karp	
DeBary	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	J. Michael Kennedy
Higgins	Mike W. Lentz	Paul V. Crimi	David R. Karp	
Hines	Roger B. Zirkle	Paul V. Crimi	George Kerst	J. Michael Kennedy
Intercession City	Kris Edmondson	Paul V. Crimi	William Dudley	J. Michael Kennedy
Rio Pinar	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	
Tiger Bay	Roger B. Zirkle	Paul V. Crimi	Dennis A. Merrick	J. Michael Kennedy
Turner	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	
University of Florida Cogen	Wilson B. Hicks, Jr.	Paul V. Crimi	Ernie L. Bass	J. Michael Kennedy

1050223



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SEP 16 2003

Progress Energy Florida, Inc
Bayboro Plant
160 13th Ave., S.
St. Petersburg, FL 33701

DIVISION OF AIR
RESOURCE MANAGEMENT

Bruce M. Baldwin
Vice President
CT - Operations Department
(727) 826-4201

September 10, 2003

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Bruce M. Baldwin
Vice President - Combustion Turbine Operations

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Attachment 1
Progress Energy Florida Combustion Turbine
Title V Responsible Officials

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Avon Park	Kris Edmondson	Paul V. Crimi	William Dudley	
Bayboro	Mike W. Lentz	Paul V. Crimi	David R. Karp	
DeBary	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	J. Michael Kennedy
Higgins	Mike W. Lentz	Paul V. Crimi	David R. Karp	
Hines	Roger B. Zirkle	Paul V. Crimi	George Kerst	J. Michael Kennedy
Intercession City	Kris Edmondson	Paul V. Crimi	William Dudley	J. Michael Kennedy
Rio Pinar	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	
Tiger Bay	Roger B. Zirkle	Paul V. Crimi	Dennis A. Merrick	J. Michael Kennedy
Turner	Martin J. Drango	Paul V. Crimi	Reginald D. Anderson	
University of Florida Cogen	Wilson B. Hicks, Jr.	Paul V. Crimi	Ernie L. Bass	J. Michael Kennedy



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JUN 28 2000

BUREAU OF AIR REGULATION

June 23, 2000

Mr. Jonathan Holtom, P.E.
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Holtom:

Re: Package Boiler Permit Application - FPC Tiger Bay Facility

As we discussed, enclosed are four originals of the appropriate pages of a modified construction permit application for the installation of a small, natural gas-fired package steam boiler at Florida Power Corporation's (FPC) Tiger Bay facility. The modification is a reduction in the proposed maximum annual hours of operation from 7,980 to 6,000. The pages affected by this change have been updated accordingly, including the potential annual pollutant emissions.

Please contact me at (727) 826-4334 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "J. Michael Kennedy", written in a cursive style.

J. Michael Kennedy, Q.E.P.
Manager, Air Programs

**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

1. Facility Owner/Company Name : Florida Power Corporation	
2. Site Name : Tiger Bay Facility	
3. Facility Identification Number : 1050223 [] Unknown	
4. Facility Location : Ft. Meade Street Address or Other Locator : 3219 State Road 630 East City : Ft. Meade County : Polk Zip Code : 33841	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : W. Jeffrey Pardue, C.E.P.
Title : Director, Environmental Services

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

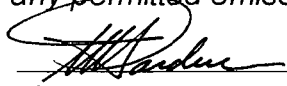
Organization/Firm : Florida Power Corporation
Street Address : P.O. Box 14042, MAC BB1A
City : St. Petersburg
State : FL Zip Code : 33733

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

Telephone : (727)826-4301 Fax : (727)826-4216

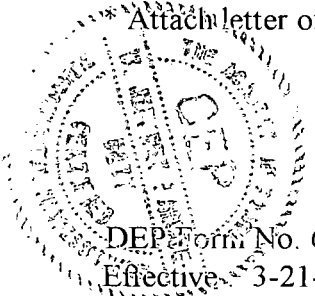
4. Owner/Authorized Representative or Responsible Official Statement :

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


Signature

6/23/00
Date

Attach letter of authorization if not currently on file.



Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
004	Natural gas-fired package steam boiler	

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section

1

Natural gas-fired package steam boiler

Emissions Unit Details

1. Initial Startup Date :		
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	Cleaver-Brooks	Model Number : DL-94
4. Generator Nameplate Rating :		
	MW	
5. Incinerator Information :		
	Dwell Temperature :	Degrees Fahrenheit
	Dwell Time :	Seconds
	Incinerator Afterburner Temperature :	Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	100	mmBtu/hr
2. Maximum Incinerator Rate :		lb/hr tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :	85000	lbs steam/hr
5. Operating Capacity Comment :		
Heat input capacity is 100 mmBtu/hr. Steam generating capacity is 85,000 lb/hr.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :		
	24 hours/day	7 days/week
	52 weeks/year	6,000 hours/year

Application Processing Fee

Check one :

Attached - Amount : \$0.00 Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :	
Addition of natural gas-fired package steam boiler for providing supplemental steam.	
2. Projected or Actual Date of Commencement of Construction :	01-Jul-2000
3. Projected Date of Completion of Construction :	30-Aug-2000

Professional Engineer Certification

1. Professional Engineer Name :	Jennifer A. Stenger
Registration Number :	0052125
2. Professional Engineer Mailing Address :	
Organization/Firm :	Florida Power Corporation
Street Address :	P.O. Box 14042, MAC BB1A
City :	St. Petersburg
State :	FL
Zip Code :	33733
3. Professional Engineer Telephone Numbers :	
Telephone :	(727)826-4132
Fax :	(727)826-4216

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 pollutant 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 emissions units for which a compliance schedule is submitted with this application.

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

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

Signature
(seal)

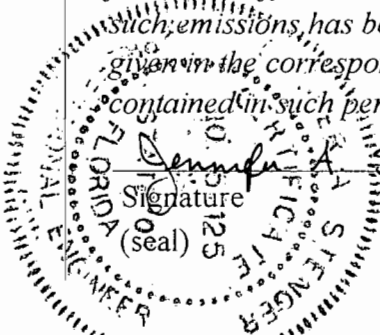
Date

6/23/00

I. Part 6 - 1

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

Effective : 3-21-96



Application Contact

1. Name and Title of Application Contact :
Name : J. Michael Kennedy, Q.E.P. Title : Manager, Air Programs
2. Application Contact Mailing Address :
Organization/Firm : Florida Power Corporation Street Address : P.O. Box 14042, MAC BB1A City : St. Petersburg State : FL Zip Code : 33733.
3. Application Contact Telephone Numbers :
Telephone : (727)826-4334 Fax : (727)826-4216

Application Comment

This application is for the proposed addition of a natural gas-fired package steam boiler in order to provide a backup steam supply. The heat input capacity of the boiler is 100 mmBtu/hr, which subjects it to 40 CFR Part 60, Subpart Dc.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :	
Natural gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.10	5. Maximum Annual Rate : 600.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.00	8. Maximum Percent Ash : 0.00
9. Million Btu per SCC Unit : 1,040	
10. Segment Comment :	

III. Part 8 - 1

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

Effective : 3-21-96

**G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO ₂			EL
2 - NO _X			EL
3 - PM			EL
4 - PM ₁₀			EL
5 - CO			EL
6 - VOC			EL
7 - SAM			EL

III. Part 9a - 1

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

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	0.1400000 lb/hour 0.4200000 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor 1 Reference : Fuel analysis	Units : gr/100 CF
7. Emissions Method Code : 2	
8. Calculations of Emissions : Assumed max. S content of 1 gr/100 CF and 6000 hours of operation/year.	
9. Pollutant Potential/Estimated Emissions Comment :	

III. Part 9b - 1

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

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX		
2. Total Percent Efficiency of Control :	0.00	%
3. Potential Emissions :	10.0000000 lb/hour	30.0000000 tons/year
4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: to tons/year		
6. Emissions Factor	0	Units : lb/mmBtu
Reference : Manufacturer data		
7. Emissions Method Code : 0		
8. Calculations of Emissions : NOx emissions of 0.10 lb/mmBtu from manufacturer data. Annual max. tons of NOx from max. heat input of 100 mmBtu/hr and 6000 hours/year operation.		
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 2

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

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : PM10	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	0.8000000 lb/hour 2.4000000 tons/year
4. Synthetically Limited? [] Yes [X] No	
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor 8 Reference : AP-42, nat. gas fire	Units : lb/mmCF
7. Emissions Method Code : 3	
8. Calculations of Emissions : AP-42 factor for PM (assume all PM is PM10) of 8 lb/mmCF and boiler capacity of 0.10 mmCF/hour. Annual emissions based on hourly rate times 6,000 hours/year.	
9. Pollutant Potential/Estimated Emissions Comment :	

III. Part 9b - 6

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
 (Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : CO		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		25.2000000 tons/year
8.4000000 lb/hour		
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:		tons/year
to		
6. Emissions Factor 84	Units :	lb/mmCF
Reference : AP-42		
7. Emissions Method Code : 3		
8. Calculations of Emissions : AP-42 factor of 84 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 6,000 hours/year.		
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 8

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

Effective : 3-21-96

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted : VOC	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	<div style="display: flex; justify-content: space-between;"> 0.6000000 lb/hour 1.8000000 tons/year </div>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor 6 Reference : AP-42	Units : lb/mmCF
7. Emissions Method Code : 3	
8. Calculations of Emissions : AP-42 factor of 6 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 6,000 hours/year.	
9. Pollutant Potential/Estimated Emissions Comment :	

Emissions Unit Information Section

1

Natural gas-fired package steam boiler

Pollutant Information Section

1

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.00		grain S/100 CF	
4. Equivalent Allowable Emissions :	0.14	lb/hour	0.42	tons/year
5. Method of Compliance :	Fuel analysis			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable based on max. sulfur content of 1 gr/100 CF of natural gas.			

III. Part 9c - 1

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

Effective : 3-21-96

Emissions Unit Information Section
Natural gas-fired package steam boiler

1

Pollutant Information Section

2

Allowable Emissions

1

1. Basis for Allowable Emissions Code :	ESCPSD
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	0.10 lb/mmBtu
4. Equivalent Allowable Emissions :	10.00 lb/hour 30.00 tons/year
5. Method of Compliance :	Stack test, EPA Method 20
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Based on emission rate of 0.10 lb/mmBtu and 6000 hours/year.

III. Part 9c - 2

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.80		lb/hr	
4. Equivalent Allowable Emissions :	0.80	lb/hour	2.40	tons/year
5. Method of Compliance :	VE, EPA Method 9			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	If VE < 10%, stack test not required.			

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	8.40		lb/hr
4. Equivalent Allowable Emissions :	8.40	lb/hour	25.20 tons/year
5. Method of Compliance :	Good combustion practices		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - 6

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

Effective : 3-21-96

Calculating

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.60		lb/hr
4. Equivalent Allowable Emissions :	0.60	lb/hour	1.80 tons/year
5. Method of Compliance :	Good combustion practices		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - 7

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	
	Normal Conditions : 10 %
	Exceptional Conditions : 0 %
	Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	
	Annual compliance test, EPA Method 9
5. Visible Emissions Comment :	
	VE limit under normal conditions at full load.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	
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 :	
EPA Method 9	
5. Visible Emissions Comment :	
1. Rule 62-210.700. 2. Max. period of excess opacity allowed - 2 hours/24 hours.	



May 15, 2000

Mr. Al Linero, P.E.
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Linero:

Re: Package Boiler Permit Application - FPC Tiger Bay Facility

Enclosed are three originals of a construction permit application for the installation of a small, natural gas-fired package steam boiler at Florida Power Corporation's (FPC) Tiger Bay facility. With this submittal, FPC withdraws the previous application for a small steam boiler at Tiger Bay, dated January 24, 2000.

As shown in the application, FPC requests that the boiler be permitted to operate 7,980 hours/year. The boiler will be used to provide supplemental steam in order to help FPC meet its off-site steam commitment. Please contact Mike Kennedy at (727) 826-4334 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Jeffrey Pardue", is written over a circular scribble.

W. Jeffrey Pardue, C.E.P.
Director

RECEIVED
MAY 17 2000
BUREAU OF AIR REGULATION

Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Original.
File Copy

Identification of Facility Addressed in This Application

1. Facility Owner/Company Name : Florida Power Corporation	
2. Site Name : Tiger Bay Facility	
3. Facility Identification Number :	1050223 [] Unknown
4. Facility Location : Ft. Meade Street Address or Other Locator : 3219 State Road 630 East City : Ft. Meade County : Polk Zip Code : 33841	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

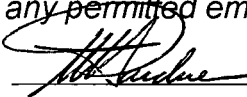
RECEIVED

MAY 17 2000

BUREAU OF AIR REGULATION

I. Part 1 - 1

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :	
Name :	W. Jeffrey Pardue, C.E.P.
Title :	Director, Environmental Services
2. Owner or Authorized Representative or Responsible Official Mailing Address :	
Organization/Firm :	Florida Power Corporation
Street Address :	P.O. Box 14042, MAC BB1A
City :	St. Petersburg
State :	FL
Zip Code :	33733
3. Owner/Authorized Representative or Responsible Official Telephone Numbers :	
Telephone :	(727)826-4301
Fax :	(727)826-4216
4. Owner/Authorized Representative or Responsible Official Statement :	
<p><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 units.</i></p>	
 Signature	<u>5/15/00</u> Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
004	Natural gas-fired package steam boiler	

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).

I. Part 4 - 2

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

Effective : 3-21-96

Current operation permit number(s), if any :
1050223-002-AV

- 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.

I. Part 4 - 3

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

Effective : 3-21-96

Application Processing Fee

Check one :

Attached - Amount : \$0.00 Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :	
Addition of natural gas-fired package steam boiler for providing supplemental steam.	
2. Projected or Actual Date of Commencement of Construction :	01-Jul-2000
3. Projected Date of Completion of Construction :	30-Aug-2000

Professional Engineer Certification

1. Professional Engineer Name : Jennifer A. Stenger Registration Number : 0052125	
2. Professional Engineer Mailing Address :	
Organization/Firm : Florida Power Corporation	
Street Address : P.O. Box 14042, MAC BB1A	
City : St. Petersburg State : FL Zip Code : 33733	
3. Professional Engineer Telephone Numbers :	
Telephone : (727)826-4132 Fax : (727)826-4216	

Application Contact

1. Name and Title of Application Contact :
Name : J. Michael Kennedy, Q.E.P. Title : Manager, Air Programs
2. Application Contact Mailing Address :
Organization/Firm : Florida Power Corporation Street Address : P.O. Box 14042, MAC BB1A City : St. Petersburg State : FL Zip Code : 33733
3. Application Contact Telephone Numbers :
Telephone : (727)826-4334 Fax : (727)826-4216

Application Comment

This application is for the proposed addition of a natural gas-fired package steam boiler in order to provide a backup steam supply. The heat input capacity of the boiler is 100 mmBtu/hr, which subjects it to 40 CFR Part 60, Subpart Dc.

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 pollutant 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 emissions 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 [X] 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.

Jennifer A. Stenger

Signature
(seal)

5/15/00
Date

I. Part 6 - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

* I am certifying the technical content of the permit application, but not the engineering design/construction of the supplemental steam boiler manufactured by Cleaver-Brooks.

* Attach any exception to certification statement.

I. Part 6 - 2

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

Effective : 3-21-96

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

8

1. Facility UTM Coordinates :					
Zone :	17	East (km) :	416.20	North (km) :	3069.22
2. Facility Latitude/Longitude :					
Latitude (DD/MM/SS) :		24 44 47	Longitude (DD/MM/SS) :		81 51 51
3. Governmental	4. Facility Status	5. Facility Major	6. Facility SIC(s) :		
Facility Code :	Code :	Group SIC Code :			
0	A	49			
7. Facility Comment :					
<p>Facility consists of a single combustion turbine (CT) that exhausts through a heat recovery steam generator (HRSG). The CT is permitted to burn natural gas or distillate fuel oil. The facility also operates a zero liquid discharge system that provides treatment of process wastewater and exhausts through a baghouse. Total capacity of the facility is 269.5 MW, of which a nominal 184 MW are from the CT and a nominal 85.5 MW are provided by the HRSG.</p>					

Facility Contact

1. Name and Title of Facility Contact :	
Paul V. Crimi Asset Manager	
2. Facility Contact Mailing Address :	
Organization/Firm : Florida Power Corporation	
Street Address : 3219 State Road 630 East	
City : Ft. Meade	State : FL Zip Code : 33841
3. Facility Contact Telephone Numbers :	
Telephone : (863)519-6101	Fax : (863)519-6110

II. Part 1 - 1

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

Effective : 3-21-96

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)?	N
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	
The CT is subject to NSPS for stationary gas turbines (40 CFR Part 60, Subpart GG).	

B. FACILITY REGULATIONS

Rule Applicability Analysis

Not Applicable

B. FACILITY REGULATIONS

List of Applicable Regulations

Refer to Attachment TB-F1-B

II. Part 3b - 1

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

ATTACHMENT TB-F1-B

Applicable Requirements Listing

EMISSION UNIT ID: EU1

FDEP Rules:

Air Pollution Control-General Provisions:

- 62-204.800(7)(b)37. (State Only) - NSPS Subpart GG
- 62-204.800(7)(c) (State Only) - NSPS authority
- 62-204.800(7)(d)(State Only) - NSPS General Provisions
- 62-204.800(12) (State Only) - Acid Rain Program
- 62-204.800(13) (State Only) - Allowances
- 62-204.800(14) (State Only) - Acid Rain Program Monitoring
- 62-204.800(16) (State Only) - Excess Emissions (Potentially applicable over term of permit)

Stationary Sources-General:

- 62-210.650 - Circumvention; EUs with control device
- 62-210.700(1) - Excess Emissions;
- 62-210.700(4) - Excess Emissions; poor maintenance
- 62-210.700(6) - Excess Emissions; notification

Acid Rain:

- 62-214.300 - All Acid Rain Units (Applicability)
- 62-214.320(1)(a),(2) - All Acid Rain Units (Application Shield)
- 62-214.330(1)(a)1. - Compliance Options (if 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - All Acid Rain Units (Certification)
- 62-214.370 - All Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - All Acid Rain Units (Compliance Options-if required)

Stationary Sources-Emission Standards:

- 62-296.320(4)(b)(State Only) - CTs/Diesel Units

Stationary Sources-Emission Monitoring (where stack test is required):

- 62-297.310(1) - All Units (Test Runs-Mass Emission)
- 62-297.310(2)(b) - All Units (Operating Rate; other than CTs;no CT)
- 62-297.310(3) - All Units (Calculation of Emission)
- 62-297.310(4)(a) - All Units (Applicable Test Procedures;Sampling time)
- 62-297.310(4)(b) - All Units (Sample Volume)
- 62-297.310(4)(c) - All Units (Required Flow Rate Range-PM/H2SO4/F)
- 62-297.310(4)(d) - All Units (Calibration)
- 62-297.310(4)(e) - All Units (EPA Method 5-only)
- 62-297.310(5) - All Units (Determination of Process Variables)

- 62-297.310(6)(a)
 - 62-297.310(6)(c)
 - 62-297.310(6)(d)
 - 62-297.310(6)(e)
 - 62-297.310(6)(f)
 - 62-297.310(6)(g)
 - 62-297.310(7)(a)1.
 - 62-297.310(7)(a)2.
 - 62-297.310(7)(a)3.
 - 62-297.310(7)(a)4.a
 - 62-297.310(7)(a)5.
 - 62-297.310(7)(a)6.
 - 62-297.310(7)(a)7.
 - 62-297.310(7)(a)9.
 - 62-297.310(7)(c)
 - 62-297.310(8)
- All Units (Permanent Test Facilities-general)
 - All Units (Sampling Ports)
 - All Units (Work Platforms)
 - All Units (Access)
 - All Units (Electrical Power)
 - All Units (Equipment Support)
 - Applies mainly to CTs/Diesels
 - FFSG excess emissions
 - Permit Renewal Test Required
 - Annual Test
 - PM exemption if <400 hrs/yr
 - PM FFSG semi annual test required if >200 hrs/yr
 - PM quarterly monitoring if >100 hrs/yr
 - FDEP Notification - 15 days
 - Waiver of Compliance Tests (Fuel Sampling)
 - Test Reports

Federal Rules:

NSPS Subpart GG:

- 40 CFR 60.332(a)(1)
 - 40 CFR 60.332(a)(3)
 - 40 CFR 60.333
 - 40 CFR 60.334
 - 40 CFR 60.335
- NOx for Electric Utility CTs
 - NOx for Electric Utility CTs
 - SO2 limits
 - Monitoring of Operations (Custom Monitoring for Gas)
 - Test Methods

NSPS General Requirements:

- 40 CFR 60.7(a)(1)
 - 40 CFR 60.7(a)(2)
 - 40 CFR 60.7(a)(3)
 - 40 CFR 60.7(a)(4)
 - 40 CFR 60.7(a)(5)
 - 40 CFR 60.7(b)
 - (startup/shutdown/malfunction)
 - 40 CFR 60.7(c)
 - (startup/shutdown/malfunction)
 - 40 CFR 60.7(d)
 - (startup/shutdown/malfunction)
 - 40 CFR 60.7(f)
 - 40 CFR 60.8(a)
 - 40 CFR 60.8(b)
 - 40 CFR 60.8(c)
 - 40 CFR 60.8(e)
- Notification of Construction
 - Notification of Initial Start-Up
 - Notification of Actual Start-Up
 - Notification and Recordkeeping (Physical/Operational Cycle)
 - Notification of CEM Demonstration
 - Notification and Recordkeeping
 - Notification and Recordkeeping
 - Notification and Recordkeeping
 - Notification and Recordkeeping (maintain records-2 yrs)
 - Performance Test Requirements
 - Performance Test Notification
 - Performance Tests (representative conditions)
 - Provide Stack Sampling Facilities
- 40 CFR 60.8(f)
 - 40 CFR 60.11(a)
 - 40 CFR 60.11(b)
- Test Runs
 - Compliance (ref. S. 60.8 or Subpart; other than opacity)
 - Compliance (opacity determined EPA Method 9)

- 40 CFR 60.11(c) startup/shutdown/malfunction) - Compliance (opacity; excludes
 - 40 CFR 60.11(d) - Compliance (maintain air pollution control equip.)
 - 40 CFR 60.11(e)(2) - Compliance (opacity; ref. S. 60.8)
 - 40 CFR 60.12 - Circumvention
 - 40 CFR 60.13(a) - Monitoring (Appendix B; Appendix F)
 - 40 CFR 60.13(c) - Monitoring (Opacity COMS)
 - 40 CFR 60.13(d)(1) - Monitoring (CEMS; span, drift, etc.)
 - 40 CFR 60.13(d)(2) - Monitoring (COMS; span, system check)
 - 40 CFR 60.13(e) - Monitoring (frequency of operation)
 - 40 CFR 60.13(f) - Monitoring (frequency of operation)
 - 40 CFR 60.13(h) - Monitoring (COMS; data requirements)
- Acid Rain-Permits:
- 40 CFR 72.9(a) - Permit Requirements
 - 40 CFR 72.9(b) - Monitoring Requirements
 - 40 CFR 72.9(c)(1) - SO2 Allowances-hold allowances
 - 40 CFR 72.9(c)(2) - SO2 Allowances-violation
 - 40 CFR 72.9(c)(3)(iii) - SO2 Allowances-Phase II Units (listed)
 - 40 CFR 72.9(c)(4) - SO2 Allowances-allowances held in ATS
 - 40 CFR 72.9(c)(5) - SO2 Allowances-no deduction for 72.9(c)(1)(i)
 - 40 CFR 72.9(d) - NOx Requirements
 - 40 CFR 72.9(e) - Excess Emission Requirements
 - 40 CFR 72.9(f) - Recordkeeping and Reporting
 - 40 CFR 72.9(g) - Liability
 - 40 CFR 72.20(a) - Designated Representative; required
 - 40 CFR 72.20(b) - Designated Representative; legally binding
 - 40 CFR 72.20(c) - Designated Representative; certification requirements
 - 40 CFR 72.21 - Submissions
 - 40 CFR 72.22 - Alternate Designated Representative
 - 40 CFR 72.23 - Changing representatives; owners
 - 40 CFR 72.24 - Certificate of representation
 - 40 CFR 72.30(a) - Requirements to Apply (operate)
 - 40 CFR 72.30(b)(2) - Requirements to Apply (Phase II-Complete)
 - 40 CFR 72.30(c) - Requirements to Apply (reapply before expiration)
 - 40 CFR 72.30(d) - Requirements to Apply (submittal requirements)
 - 40 CFR 72.31 - Information Requirements; Acid Rain Applications
 - 40 CFR 72.32 - Permit Application Shield
 - 40 CFR 72.33(b) - Dispatch System ID; unit/system ID
 - 40 CFR 72.33(c) - Dispatch System ID; ID requirements
 - 40 CFR 72.33(d) - Dispatch System ID; ID change
 - 40 CFR 72.40(a) - General; compliance plan
 - 40 CFR 72.40(b) - General; multi-unit compliance options
 - 40 CFR 72.40(c) - General; conditional approval
 - 40 CFR 72.40(d) - General; termination of compliance options
 - 40 CFR 72.51 - Permit Shield
 - 40 CFR 72.90 - Annual Compliance Certification

Allowances:

40 CFR 73.33(a),(c)
40 CFR 73.35(c)(1)

- Authorized account representative
- Compliance: ID of allowances by serial number

Monitoring Part 75:

40 CFR 75.4
40 CFR 75.5
40 CFR 75.10(a)(1)
40 CFR 75.10(a)(2)
40 CFR 75.10(a)(3)(iii)
40 CFR 75.10(b)
40 CFR 75.10(c)
40 CFR 75.10(e)
40 CFR 75.10(f)
40 CFR 75.10(g)
40 CFR 75.11(d)
40 CFR 75.11(e)
40 CFR 75.12(a)
40 CFR 75.12(b)

- Compliance Dates;
- Prohibitions
- Primary Measurement; SO₂;
- Primary Measurement; NO_x;
- Primary Measurement; CO₂; O₂ monitor
- Primary Measurement; Performance Requirements
- Primary Measurement; Heat Input; Appendix F
- Primary Measurement; Optional Backup Monitor
- Primary Measurement; Minimum Measurement
- Primary Measurement; Minimum Recording
- SO₂ Monitoring; Gas- and Oil-fired units
- SO₂ Monitoring; Gaseous firing
- NO_x Monitoring; Coal; Non-peaking oil/gas units
- NO_x Monitoring; Determination of NO_x emission rate; Appendix F

40 CFR 75.13(b)
40 CFR 75.13(c)
40 CFR 75.14(c)
40 CFR 75.20(a)

- CO₂ Monitoring; Appendix G
- CO₂ Monitoring; Appendix F
- Opacity Monitoring; Gas units; exemption
- Initial Certification Approval Process; Loss of

Certification

40 CFR 75.20(b)
40 CFR 75.20(c)
40 CFR 75.20(d)
40 CFR 75.20(f)
40 CFR 75.21(a)
12/31/96)

- Recertification Procedures (if recertification necessary)
- Certification Procedures (if recertification necessary)
- Recertification Backup/portable monitor
- Alternate Monitoring system
- QA/QC; CEMS; Appendix B (Suspended 7/17/95-

40 CFR 75.21(c)
40 CFR 75.21(d)
40 CFR 75.21(e)
40 CFR 75.21(f)

- QA/QC; Calibration Gases
- QA/QC; Notification of RATA
- QA/QC; Audits
- QA/QC; CEMS (Effective 7/17/96-12/31/96)

40 CFR 75.22
40 CFR 75.24

- Reference Methods

40 CFR 75.30(a)(3)
40 CFR 75.30(a)(4)
40 CFR 75.30(b)
monitor

- Out-of-Control Periods; CEMS
- General Missing Data Procedures; NO_x
- General Missing Data Procedures; SO₂
- General Missing Data Procedures; certified backup

40 CFR 75.30(c)
monitor
40 CFR 75.30(d)

- General Missing Data Procedures; certified backup

40 CFR 75.30(e)
40 CFR 75.31

- General Missing Data Procedures; SO₂ (optional before 1/1/97)
- General Missing Data Procedures; bypass/multiple stacks
- Initial Missing Data Procedures (new/re-certified CMS)

- 40 CFR 75.32
 - 40 CFR 75.33
 - 40 CFR 75.36
 - 40 CFR 75.40
 - 40 CFR 75.41
 - 40 CFR 75.42
 - 40 CFR 75.43
 - 40 CFR 75.44
 - 40 CFR 75.45
 - 40 CFR 75.46
 - 40 CFR 75.47
 - 40 CFR 75.48
 - 40 CFR 75.53
 - 40 CFR 75.54(a)
 - 40 CFR 75.54(b)
 - 40 CFR 75.54(c)
 - 40 CFR 75.54(d)
 - 40 CFR 75.54(e)
 - 40 CFR 75.54(f)
 - 40 CFR 75.55(c)
 - 40 CFR 75.55(e)
 - 40 CFR 75.56
 - 40 CFR 75.60
 - 40 CFR 75.61
 - 40 CFR 75.62
 - 40 CFR 75.63
 - 40 CFR 75.64(a)
 - 40 CFR 75.64(b)
 - statement
 - 40 CFR 75.64(c)
 - 40 CFR 75.64(d)
 - 40 CFR 75.66
 - Appendix A-1
 - Appendix A-2.
 - Appendix A-3.
 - Appendix A-4.
 - Appendix A-5.
 - Appendix A-6.
 - Appendix A-7.
 - Appendix B
 - Appendix C-1.
 - Appendix C-2.
 - Appendix D
 - Appendix F
 - Appendix H
- Monitoring Data Availability for Missing Data
 - Standard Missing Data Procedures
 - Missing Data for Heat Input
 - Alternate Monitoring Systems-General
 - Alternate Monitoring Systems-Precision Criteria
 - Alternate Monitoring Systems-Reliability Criteria
 - Alternate Monitoring Systems-Accessability Criteria
 - Alternate Monitoring Systems-Timeliness Criteria
 - Alternate Monitoring Systems-Daily QA
 - Alternate Monitoring Systems-Missing data
 - Alternate Monitoring Systems-Criteria for Class
 - Alternate Monitoring Systems-Petition
 - Monitoring Plan ; revisions
 - Recordkeeping-general
 - Recordkeeping-operating parameter
 - Recordkeeping-SO2
 - Recordkeeping-NOx
 - Recordkeeping-CO2
 - Recordkeeping-Opacity
 - General Recordkeeping (Specific Situations)
 - General Recordkeeping (Specific Situations)
 - Certification; QA/QC Provisions
 - Reporting Requirements-General
 - Reporting Requirements-Notification cert/recertification
 - Reporting Requirements-Monitoring Plan
 - Reporting Requirements-Certification/Recertification
 - Reporting Requirements-Quarterly reports; submission
 - Reporting Requirements-Quarterly reports; DR
 - Rep. Req.; Quarterly reports; Compliance Certification
 - Rep. Req.; Quarterly reports; Electronic format
 - Petitions to the Administrator (if required)
 - Installation and Measurement Locations
 - Equipment Specifications
 - Performance Specifications
 - Data Handling and Acquisition Systems
 - Calibration Gases
 - Certification Tests and Procedures
 - Calculations
 - QA/QC Procedures
 - Missing Data; SO2/NOx for controlled sources
 - Missing Data; Load-Based Procedure; NOx & flow
 - Optional SO2; Oil-/gas-fired units
 - Conversion Procedures
 - Traceability Protocol

Acid Rain Program-Excess Emissions (these are future requirements):
 40 CFR 77.3

- Offset Plans (future)

40 CFR 77.5(b)
40 CFR 77.6

- Deductions of Allowances (future)
- Excess Emissions Penalties (SO₂ and NO_x;future)

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
PM10	B
NOX	SM
PM	B
CO	B
SO2	B
VOC	B
SAM	B

II. Part 4 - 1

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

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D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 1

1. Pollutant Emitted :	PM10	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 1

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

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D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 2

1. Pollutant Emitted :	NOX	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 2

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 3

1. Pollutant Emitted :	PM	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 3

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

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D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 4

1. Pollutant Emitted :	CO	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 4

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

Effective : 3-21-96

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 5

1. Pollutant Emitted :	SO2	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 5

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

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D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 6

1. Pollutant Emitted :	VOC	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 6

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

Effective : 3-21-96

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 7

1. Pollutant Emitted :	SAM	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 7

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

Effective : 3-21-96

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

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

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt
8. List of Equipment/Activities Regulated under
9. Alternative Methods of Operation :
10. Alternative Modes of Operation (Emissions
11. Identification of Additional Applicable
12. Compliance Assurance Monitoring
13. Risk Management Plan Verification :
14. Compliance Report and Plan :
15. Compliance Certification (Hard-copy Require

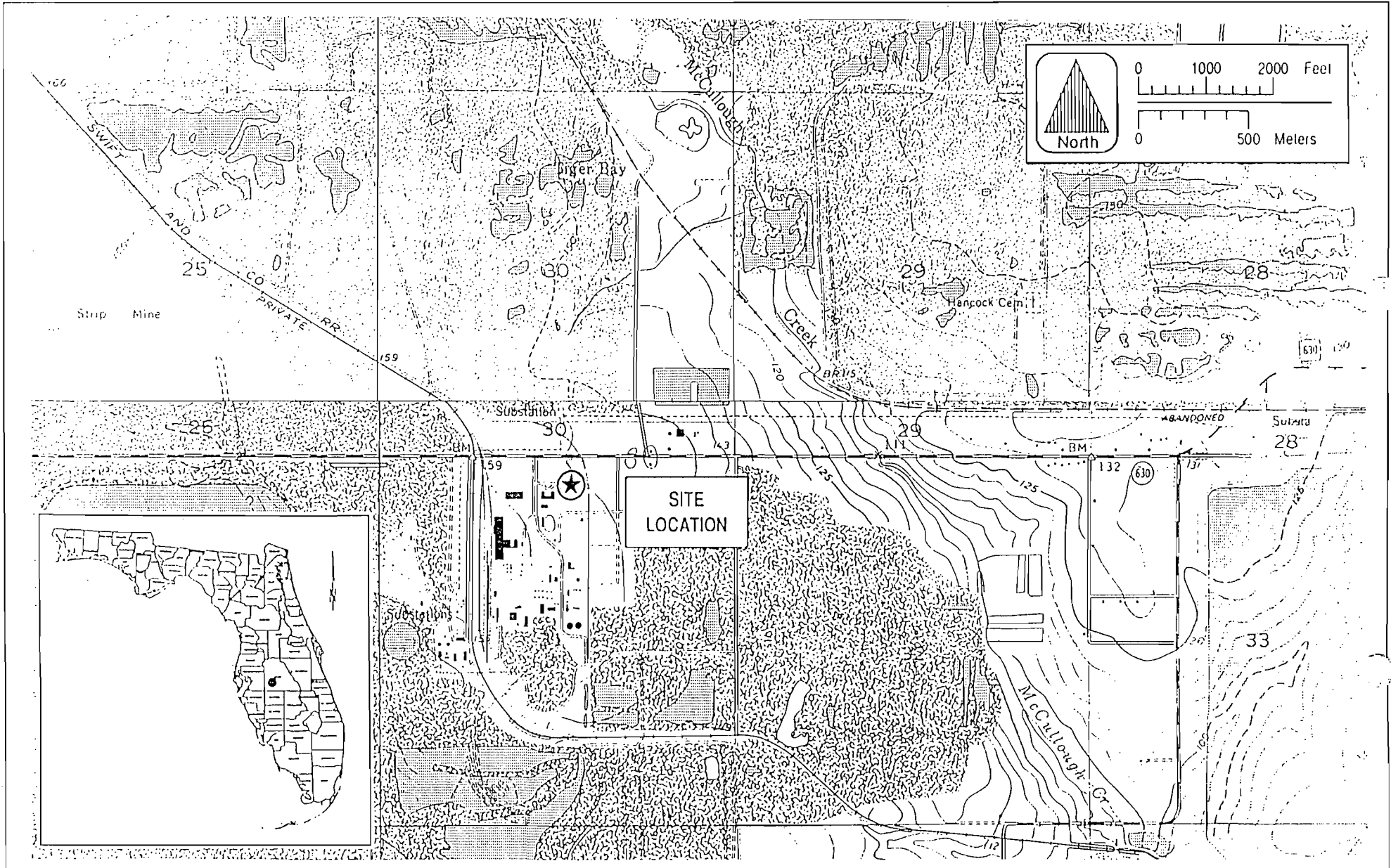
II. Part 5 - 1

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

Effective : 3-21-96

ATTACHMENT TB-FE-1

AREA MAP



Attachment TB-FE-1
Tiger Bay Project Location Map

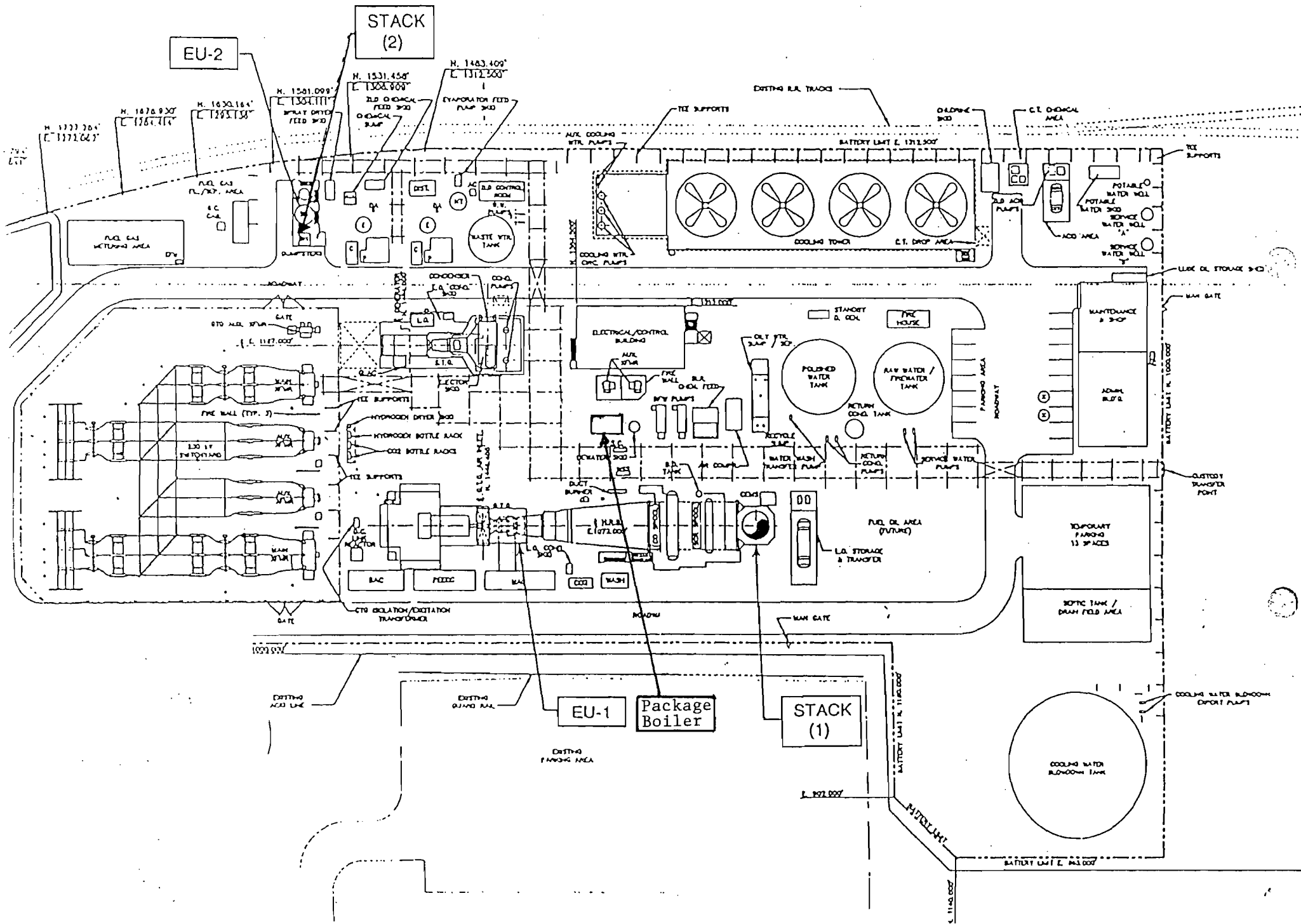
Sources: USGS, 1986, 1987; KBN, 1995.



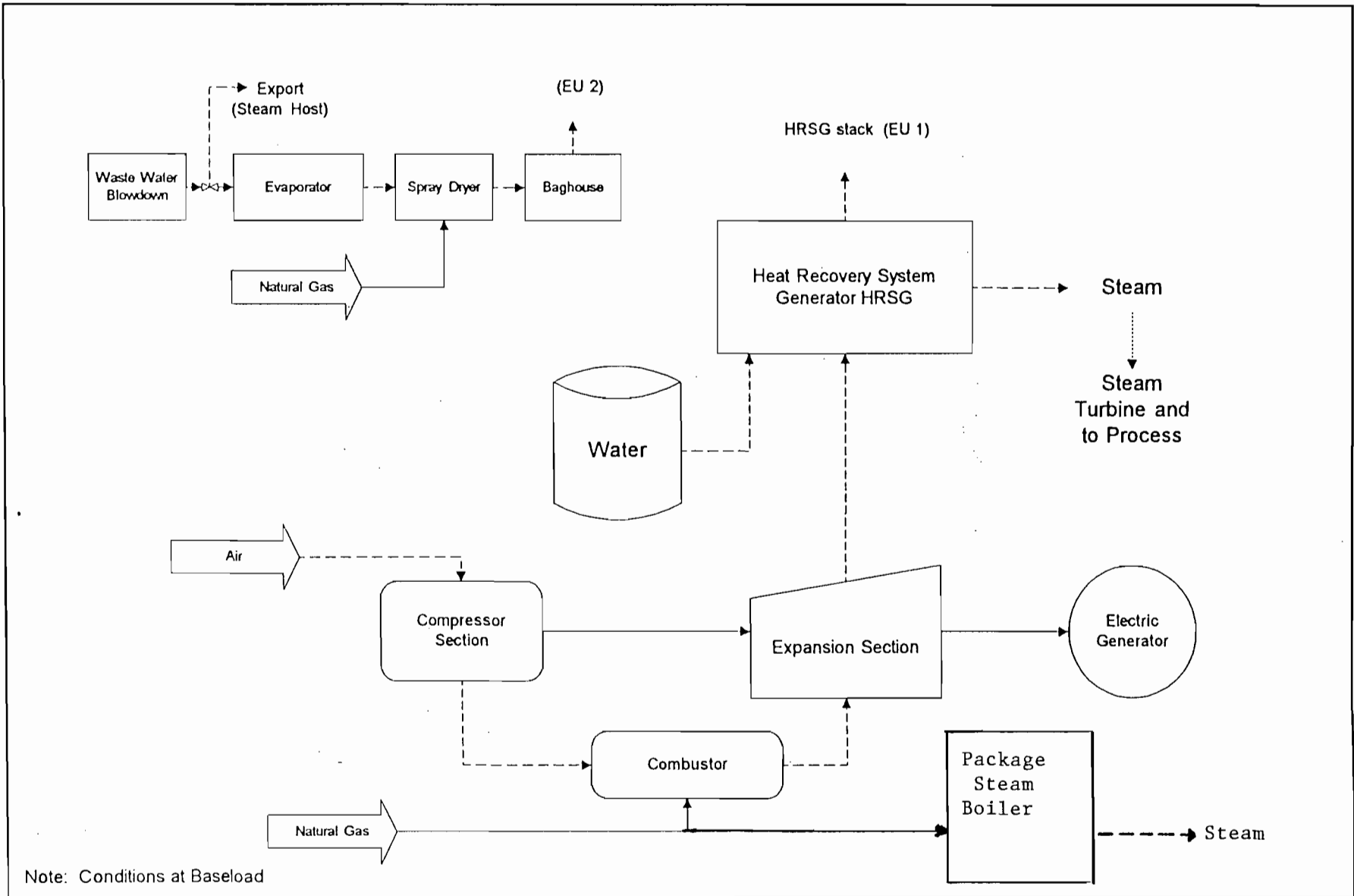
ATTACHMENT TB-FE-2

FACILITY PLOT PLAN

0' 10" 30"
TRUE NORTH



ATTACHMENT TB-FE-3
PROCESS FLOW DIAGRAM



ATTACHMENT: TB-FE-3

Flow Diagram of Facility
Process Area: Tiger Bay

Process Flow Legend

Solid/Liquid	—————▶
Gas	- - - - -▶
Steam	⋯⋯⋯▶

Emission Unit:

Filename: TBCOGEN.VSD

Date: 06/10/96



Engineering and Applied Sciences, Inc.

ATTACHMENT TB-FE-4
SUPPLEMENTAL INFORMATION

Description of Project and Operation Limit

The proposed package boiler installation will provide supplemental steam to the facility. The boiler will be natural gas-fired only with a maximum steam production capacity of 85,000 lb/hour, which corresponds to a heat input capacity of 100 mmBtu/hour. Emissions of NO_x will be limited to a maximum increase of 39.9 tons/year. Due to the use of natural gas fuel, the emissions of all other pollutants will be quite low.

Florida Power Corporation (FPC) requests that the operational limit of the unit placed in the permit be in terms of annual hours of operation. At an emission rate of 0.10 lb/mmBtu, and using the rated heat input capacity of 100 mmBtu/hour, the boiler will emit a maximum of 10 lb/hour of NO_x. Limiting the maximum annual increase of NO_x at the facility will allow the boiler to operate a total of 7,980 hours/year at capacity. FPC will maintain records of the hours of operation of the boiler.

ATTACHMENT TB-FE-5
TYPICAL FUEL ANALYSIS

FGT SYSTEM CHROMATOGRAPHS
Spot Analysis of Natural Gas for Delivery in Florida

Date	Time
4/10/00	1:21 PM

Perry	Perry	Brooker	Gainsville	West Palm
36" Stream #1	30" Stream #2	24" Stream	8" Stream	24" Stream
Mole%	Mole%	Mole%	Mole%	Mole%

Components						
Hexane	0.0564	0.0572	0.0468	0.0544	0.0551	
Propane	0.4222	0.4248	0.3214	0.3692	0.4281	
Iso-Butane	0.0959	0.0966	0.0708	0.0827	0.0968	
N-Butane	0.0965	0.0966	0.0715	0.0818	0.0961	
Iso-Pentane	0.0303	0.0299	0.0200	0.0207	0.0287	
N-Pentane	0.0200	0.0190	0.0118	0.0134	0.0187	
Nitrogen	0.4146	0.4143	0.3013	0.3701	0.3865	
Methane	95.2614	95.2441	96.6236	96.0097	95.6535	
C02	0.7902	0.7936	0.6947	0.7638	0.6985	
Ethane	2.8125	2.8239	1.8382	2.2343	2.5380	
Totals	100.0000	100.0000	100.0000	100.0000	100.0000	
Btu	1027.7	1038.4	1029.3	1032.6	1037.4	Dry Btu/cf @ 14.
Gravity	0.5786	0.5874	0.5788	0.5827	0.5849	Real Relative De
Total Sulfur	5.5954	3.9392	2.8022			PPM
	0.3497	0.2462	0.1751			Grains/hcf
Current H2O	3.5764		1.5677		1.6575	Lbs. Per MMcf

II. Part 5 - 2

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III. EMISSIONS UNIT INFORMATION

**A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

- [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, a 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.
- [] 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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Natural gas-fired package steam boiler		
2. Emissions Unit Identification Number : 004 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment :		

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Emissions Unit Control Equipment 1

1. Description :

2. Control Device or Method Code :

III. Part 3 - 1

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**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Emissions Unit Details

1. Initial Startup Date :		
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	Cleaver-Brooks	Model Number : DL-94
4. Generator Nameplate Rating :		
	MW	
5. Incinerator Information :		
	Dwell Temperature :	Degrees Fahrenheit
	Dwell Time :	Seconds
	Incinerator Afterburner Temperature :	Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	100	mmBtu/hr
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :	85000	lbs steam/hr
5. Operating Capacity Comment :		
Heat input capacity is 100 mmBtu/hr. Steam generating capacity is 85,000 lb/hr.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :		
	24 hours/day	7 days/week
	52 weeks/year	7,980 hours/year

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Rule Applicability Analysis

Not Applicable

Emissions Unit Information Section

1

Natural gas-fired package steam boiler

List of Applicable Regulations

62-204.8 Excess Emissions

62-210.700 Excess Emissions

62-297.310 Emission Monitoring

40 CFR 60.40c

III. Part 6b - 1

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

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Attach. TB-FE-2		
2. Emission Point Type Code :	1		
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Gases exhaust through a single stack.		
5. Discharge Type Code :	V		
6. Stack Height :	40	feet	
7. Exit Diameter :	4.0	feet	
8. Exit Temperature :	320	°F	
9. Actual Volumetric Flow Rate :	29162	acfm	
10. Percent Water Vapor :	0.00	%	
11. Maximum Dry Standard Flow Rate :	0	dscfm	
12. Nonstack Emission Point Height :	0	feet	
13. Emission Point UTM Coordinates :			
Zone :	0	East (km) :	0.000
		North (km) :	0.000

III. Part 7a - 1

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

Effective : 3-21-96

14. Emission Point Comment :

III. Part 7a - 2

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

Effective : 3-21-96

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas	
2. Source Classification Code (SCC) : 20100201	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.10	5. Maximum Annual Rate : 798.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.00	8. Maximum Percent Ash : 0.00
9. Million Btu per SCC Unit : 1,040	
10. Segment Comment :	

III. Part 8 - 1

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**G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler .

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO2			EL
2 - NOX			EL
3 - PM			EL
4 - PM10			EL
5 - CO			EL
6 - VOC			EL
7 - SAM			EL

III. Part 9a - 1

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**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	0.1400000 lb/hour 0.5600000 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="checked" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right;">to tons/year</div>	
6. Emissions Factor 1 Reference : Fuel analysis	Units : gr/100 CF
7. Emissions Method Code : 2	
8. Calculations of Emissions : Assumed max. S content of 1 gr/100 CF and 7980 hours of operation/year.	
9. Pollutant Potential/Estimated Emissions Comment :	

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX		
2. Total Percent Efficiency of Control :	0.00	%
3. Potential Emissions :	10.0000000 lb/hour	39.9000000 tons/year
4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor	0.10	Units : lb/mmBtu
Reference : Manufacturer data		
7. Emissions Method Code : 0		
8. Calculations of Emissions : NOx emissions of 0.10 lb/mmBtu from manufacturer data. Annual max. tons of NOx from max. heat input of 100 mmBtu/hr and 7980 hours/year operation.		
9. Pollutant Potential/Estimated Emissions Comment :		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

III. Part 9b - 3

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : PM10		
2. Total Percent Efficiency of Control :	%	
3. Potential Emissions :	0.8000000 lb/hour	3.1900000 tons/year
4. Synthetically Limited? [] Yes [X] No		
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor 8 Reference : AP-42, nat. gas fire	Units : lb/mmCF	
7. Emissions Method Code : 3		
8. Calculations of Emissions : AP-42 factor for PM (assume all PM is PM10) of 8 lb/mmCF and boiler capacity of 0.10 mmCF/hour. Annual emissions based on hourly rate times 7,980 hours/year.		
9. Pollutant Potential/Estimated Emissions Comment :		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

III. Part 9b - 7

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : CO		
2. Total Percent Efficiency of Control :	%	
3. Potential Emissions :	8.4000000 lb/hour	33.5000000 tons/year
4. Synthetically Limited? [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No		
5. Range of Estimated Fugitive/Other Emissions:		to tons/year
6. Emissions Factor 84	Units : lb/mmCF	
Reference : AP-42		
7. Emissions Method Code : 3		
8. Calculations of Emissions : AP-42 factor of 84 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 7,980 hours/year.		
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 8

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

III. Part 9b - 9

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 6

1. Pollutant Emitted :	VOC	
2. Total Percent Efficiency of Control :	%	
3. Potential Emissions :	0.6000000 lb/hour	2.3900000 tons/year
4. Synthetically Limited?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:	to	tons/year
6. Emissions Factor	6	Units : lb/mmCF
Reference :	AP-42	
7. Emissions Method Code :	3	
8. Calculations of Emissions :	<p>AP-42 factor of 6 lb/mmCF and max. nat. gas firing capacity of 0.10 mmCF/hr. Annual emissions from hourly rate times 7,980 hours/year.</p>	
9. Pollutant Potential/Estimated Emissions Comment :	 	

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

III. Part 9b - 11

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Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	1.00	grain S/100 CF	
4. Equivalent Allowable Emissions :	0.14	lb/hour	0.56 tons/year
5. Method of Compliance :	Fuel analysis		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Allowable based on max. sulfur content of 1 gr/100 CF of natural gas.		

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	ESCPSD		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.10	lb/mmBtu	
4. Equivalent Allowable Emissions :	10.00	lb/hour	39.90 tons/year
5. Method of Compliance :	Stack test, EPA Method 20		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Based on emission rate of 0.10 lb/mmBtu and 7980 hours/year.		

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.80	lb/hr	
4. Equivalent Allowable Emissions :	0.80	lb/hour	3.19 tons/year
5. Method of Compliance :	VE, EPA Method 9		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	If VE < 10%, stack test not required.		

III. Part 9c - 5

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Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER			
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	8.40		lb/hr	
4. Equivalent Allowable Emissions :	8.40	lb/hour	33.50	tons/year
5. Method of Compliance :	Good combustion practices			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.60	lb/hr	
4. Equivalent Allowable Emissions :	0.60	lb/hour	2.39 tons/year
5. Method of Compliance :	Good combustion practices		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - 7

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10											
2. Basis for Allowable Opacity :	OTHER											
3. Requested Allowable Opacity :	<table style="width: 100%; border: none;"> <tr> <td style="text-align: right; padding-right: 20px;">Normal Conditions :</td> <td style="text-align: center;">10</td> <td style="text-align: center;">%</td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">Exceptional Conditions :</td> <td style="text-align: center;">0</td> <td style="text-align: center;">%</td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">Maximum Period of Excess Opacity Allowed :</td> <td></td> <td style="text-align: center;">min/hour</td> </tr> </table>			Normal Conditions :	10	%	Exceptional Conditions :	0	%	Maximum Period of Excess Opacity Allowed :		min/hour
Normal Conditions :	10	%										
Exceptional Conditions :	0	%										
Maximum Period of Excess Opacity Allowed :		min/hour										
4. Method of Compliance :	Annual compliance test, EPA Method 9											
5. Visible Emissions Comment :	VE limit under normal conditions at full load.											

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :									
2. Basis for Allowable Opacity : RULE									
3. Requested Allowable Opacity : <table style="margin-left: auto; margin-right: auto;"><tr><td style="padding-right: 20px;">Normal Conditions :</td><td style="padding-right: 20px;"></td><td style="text-align: right;">%</td></tr><tr><td style="padding-right: 20px;">Exceptional Conditions :</td><td style="padding-right: 20px;">100</td><td style="text-align: right;">%</td></tr><tr><td style="padding-right: 20px;">Maximum Period of Excess Opacity Allowed :</td><td style="padding-right: 20px;">60</td><td style="text-align: right;">min/hour</td></tr></table>	Normal Conditions :		%	Exceptional Conditions :	100	%	Maximum Period of Excess Opacity Allowed :	60	min/hour
Normal Conditions :		%							
Exceptional Conditions :	100	%							
Maximum Period of Excess Opacity Allowed :	60	min/hour							
4. Method of Compliance : EPA Method 9									
5. Visible Emissions Comment : 1. Rule 62-210.700. 2. Max. period of excess opacity allowed - 2 hours/24 hours.									

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code :	2. Pollutant(s):
3. CMS Requirement :	
4. Monitor Information Manufacturer : Model Number : Serial Number :	
5. Installation Date :	
6. Performance Specification Test Date :	
7. Continuous Monitor Comment :	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

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.

III. Part 12 - 1

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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 : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Supplemental Requirements for All Applications

1. Process Flow Diagram :	TB-FE-3
2. Fuel Analysis or Specification :	TB-FE-5
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 :	TB-FE-4
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :
11. Alternative Modes of Operation (Emissions Trading) :

12. Identification of Additional Applicable Requirements :

13. Compliance Assurance Monitoring
Plan :

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.)



RECEIVED

JAN 31 2000

BUREAU OF AIR REGULATION

Project # 1050223-008-AC

January 24, 2000

Mr. Al Linero, P.E.
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Dear Mr. Linero:

Re: Package Boiler Permit Application - FPC Tiger Bay Facility

Enclosed are three originals of a construction permit application for the installation of a small, natural gas-fired package steam boiler at Florida Power Corporation's (FPC) Tiger Bay facility.

As shown in the application, FPC requests that boiler operation be permitted in terms of total annual steam production that corresponds to 5,500 hours/year of operation at full load. The boiler will be used to provide supplemental steam in order to help FPC meet its off-site steam commitment. Please contact Mike Kennedy at (727) 826-4334 if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Jeffrey Pardue".

W. Jeffrey Pardue, C.E.P.
Director

1/31/00 cc: Bill Thomas, SWD
Natural Resources Director, Polk Co.

**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

1. Facility Owner/Company Name : Florida Power Corporation	
2. Site Name : Tiger Bay Facility	
3. Facility Identification Number :	1050223 <input type="checkbox"/> Unknown
4. Facility Location : Ft. Meade Street Address or Other Locator : 3219 State Road 630 East City : Ft. Meade County : Polk Zip Code : 33841	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

I. Part 1 - 1

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : W. Jeffrey Pardue, C.E.P.

Title : Director, Environmental Services

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

Organization/Firm : Florida Power Corporation

Street Address : P.O. Box 14042, MAC BB1A

City : St. Petersburg

State : FL Zip Code : 33733

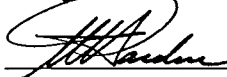
3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (727)826-4301

Fax : (727)826-4216

4. Owner/Authorized Representative or Responsible Official Statement :

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


Signature

1/26/00
Date

* Attach letter of authorization if not currently on file.

I. Part 2 - 1

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Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type
004	Natural gas-fired package steam boiler	

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 :

I. Part 4 - 1

- 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 :

I. Part 4 - 2

DEP Form No. 62-210.900(1) - Form
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- 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 :
1050223-002-AV

- 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

Check one :

[] Attached - Amount : \$0.00 [X] Not Applicable.

Construction/Modification Information

1. Description of Proposed Project or Alterations :	
Proposed installation of a natural gas-fired package steam boiler to supply supplemental steam.	
2. Projected or Actual Date of Commencement of Construction :	15-Mar-2000
3. Projected Date of Completion of Construction :	31-Mar-2000

Professional Engineer Certification

1. Professional Engineer Name : Jennifer A. Stenger Registration Number : 0052125	
2. Professional Engineer Mailing Address :	
Organization/Firm : Florida Power Corporation Street Address : P.O. Box 14042, MAC BB1A City : St. Petersburg State : FL Zip Code : 33733	
3. Professional Engineer Telephone Numbers :	
Telephone : (727)826-4132	Fax : (727)826-4216

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 pollutant 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 emissions 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 [x] 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 has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

Signature

NO. 52125

* 52125

FLORIDA

PROFESSIONAL ENGINEER

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

Date

1/26/00

I. Part 6 - 1

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* I am certifying the technical content of the permit application, but not the engineering design/construction of the steam boiler.

* Attach any exception to certification statement.

I. Part 6 - 2

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

1. Name and Title of Application Contact :

Name : J. Michael Kennedy, Q.E.P.
Title : Manager, Air Programs

2. Application Contact Mailing Address :

Organization/Firm : Florida Power Corporation
Street Address : P.O. Box 14042, MAC BB1A
City : St. Petersburg
State : FL Zip Code : 33733

3. Application Contact Telephone Numbers :

Telephone : (727)826-4334 Fax : (727)826-4216

Application Comment

This application is for the installation of a natural gas-fired package steam boiler at the Tiger Bay facility. The boiler will primarily be used as a backup steam supply.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

8

1. Facility UTM Coordinates : Zone : 17 East (km) : 416.20 North (km) : 33069.22			
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 24 44 47 Longitude (DD/MM/SS) : 81 51			
3. Governmental Facility Code : 0	4. Facility Status Code : A	5. Facility Major Group SIC Code : 49	6. Facility SIC(s) :
7. Facility Comment : Facility consists of a single combustion turbine (CT) that exhausts through a heat recovery steam generator (HRSG). The CT is permitted to burn natural gas or distillate fuel oil. The facility also operates a zero liquid discharge system that provides treatment of process wastewater and exhausts through a baghouse. Total capacity of the facility is 269.5 MW, of which a nominal 184 MW are from the CT and a nominal 85.5 MW are provided by the HRSG.			

Facility Contact

1. Name and Title of Facility Contact : Paul V. Crimi Asset Manager	
2. Facility Contact Mailing Address : Organization/Firm : Florida Power Corporation Street Address : 3219 State Road 630 East City : Ft. Meade State : FL Zip Code : 33841	
3. Facility Contact Telephone Numbers : Telephone : (863)519-6101 Fax : (863)519-6110	

II. Part 1 - 1

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

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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)?	N
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	
The CT is subject to NSPS for stationary gas turbines (40 CFR Part 60, Subpart GG).	

B. FACILITY REGULATIONS

Rule Applicability Analysis

Not Applicable

B. FACILITY REGULATIONS

List of Applicable Regulations

Refer to Attachment TB-F1-B

II. Part 3b - 1

DEP Form No. 62-210.900(1) - Form
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C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
PM10	B
NOX	SM
PM	B
CO	B
SO2	B
VOC	B

II. Part 4 - 1

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 1

1. Pollutant Emitted :	PM10	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 1

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 2

1. Pollutant Emitted :	NOX	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 2

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 3

1. Pollutant Emitted :	PM	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 3

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 4

1. Pollutant Emitted :	CO	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 5

1. Pollutant Emitted :	SO2	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 5

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information

Pollutant 6

1. Pollutant Emitted :	VOC	
2. Requested Emissions Cap :	(lbs/hour)	(tons/year)
3. Basis for Emissions Cap Code :		
4. Facility Pollutant Comment :		

II. Part 4b - 6

D. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

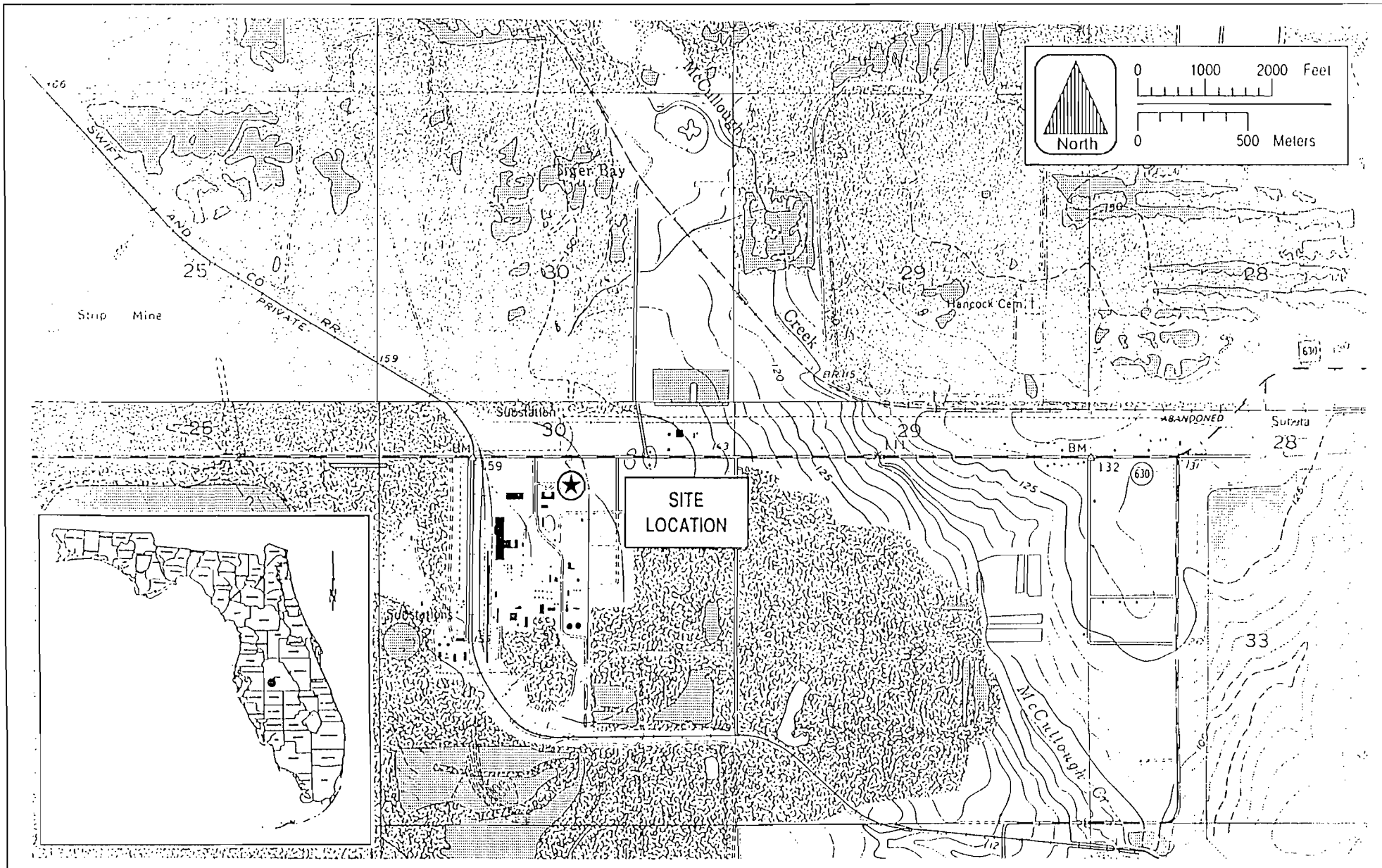
1. Area Map Showing Facility Location :	TB-FE-1
2. Facility Plot Plan :	TB-FE-2
3. Process Flow Diagram(s) :	TB-FE-3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	NA
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Applica	TB-FE-4

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt
8. List of Equipment/Activities Regulated under
9. Alternative Methods of Operation :
10. Alternative Modes of Operation (Emissions
11. Identification of Additional Applicable
12. Compliance Assurance Monitoring
13. Risk Management Plan Verification :
14. Compliance Report and Plan :
15. Compliance Certification (Hard-copy Require

ATTACHMENT TB-FE-1

AREA MAP



Attachment TB-FE-1
Tiger Bay Project Location Map

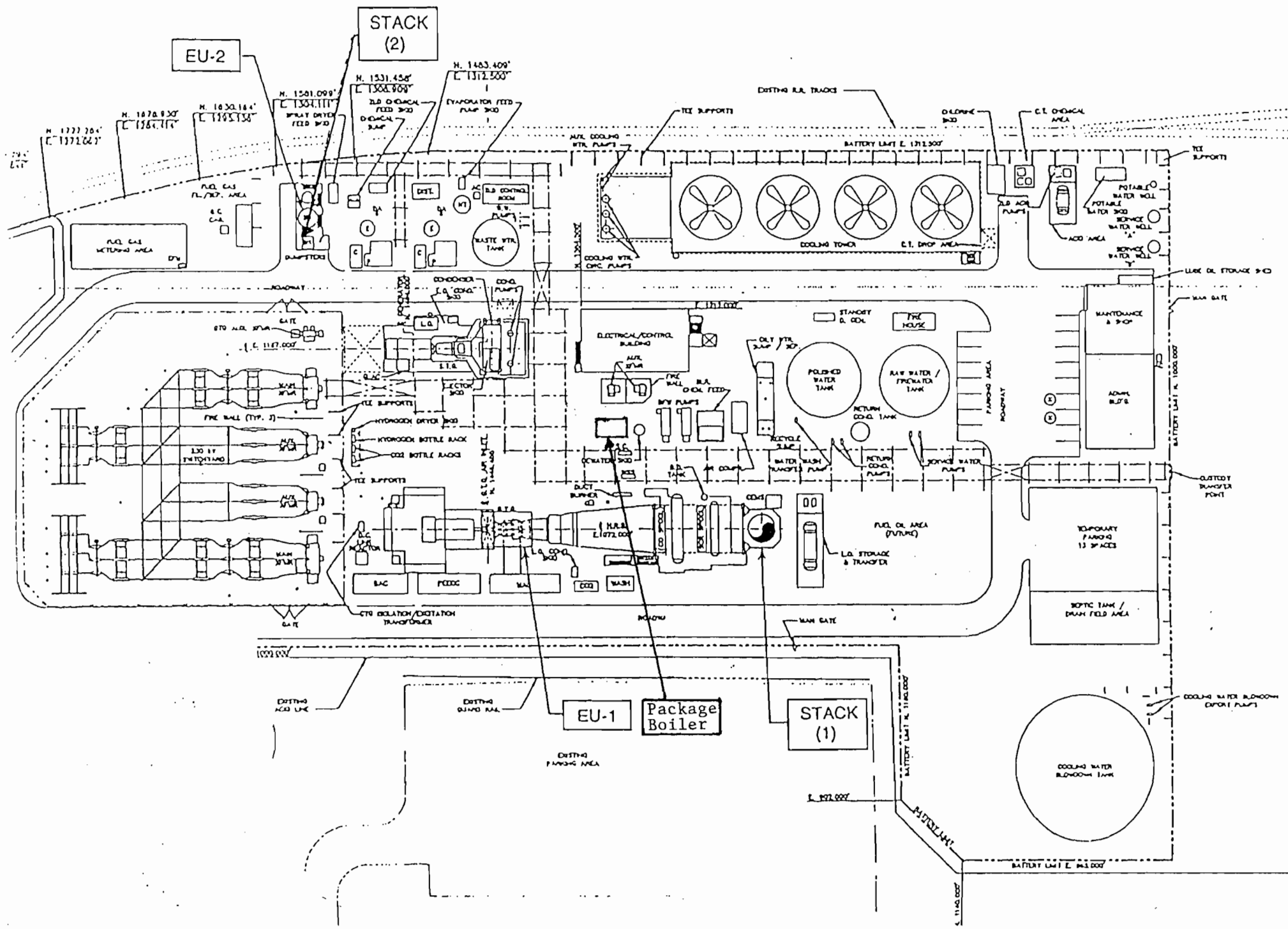
Sources: USGS, 1986, 1987; KBN, 1995.



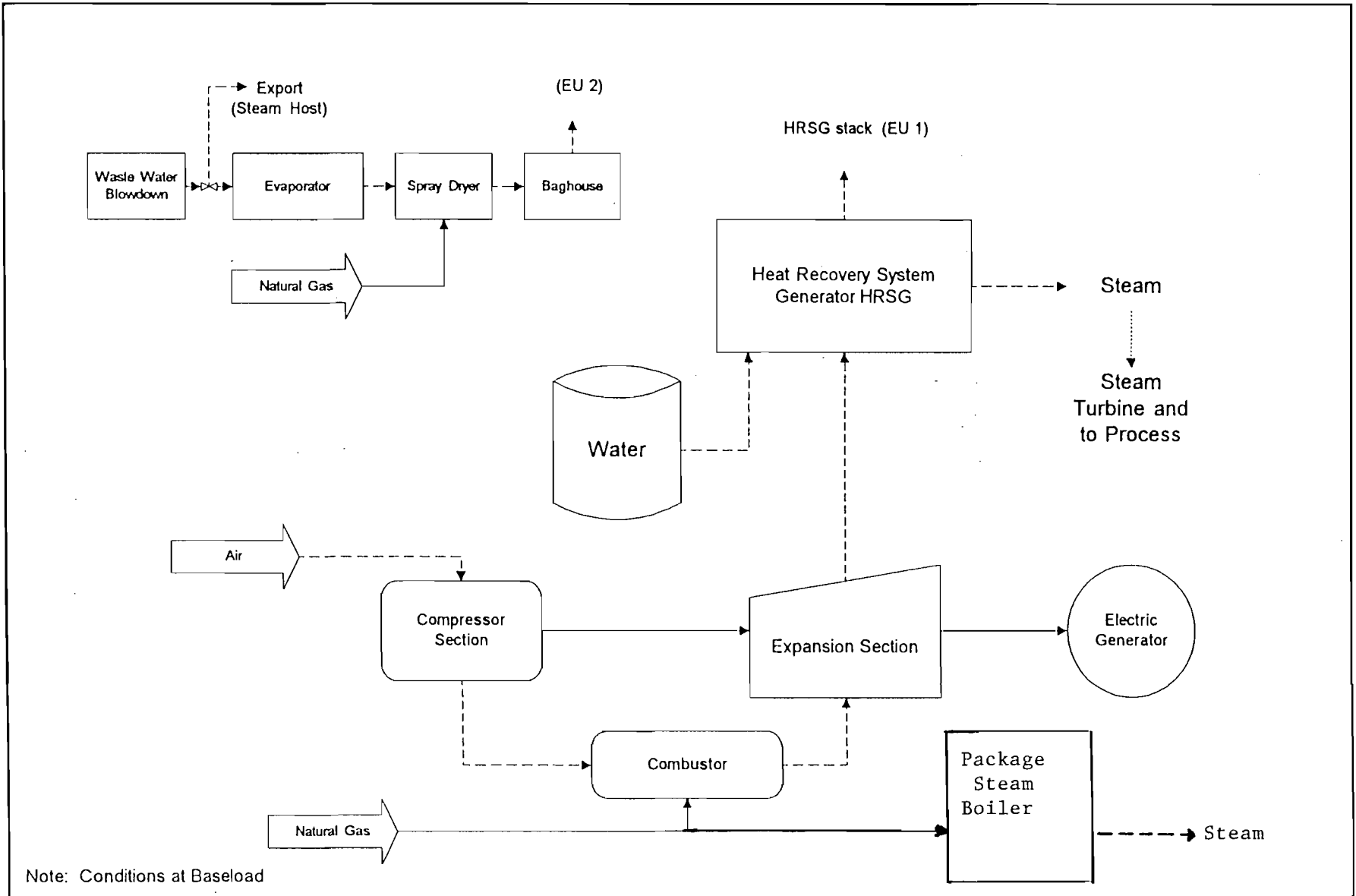
ATTACHMENT TB-FE-2

FACILITY PLOT PLAN

0 14 30"
TRUE NORTH



ATTACHMENT TB-FE-3
PROCESS FLOW DIAGRAM



ATTACHMENT: TB-FE-3

Flow Diagram of Facility
Process Area: Tiger Bay

Process Flow Legend

- Solid/Liquid
- Gas
- Steam

Emission Unit:

Filename: TBCOGEN.VSD

Date: 06/10/96



Engineering and
Applied Sciences, Inc.

ATTACHMENT TB-FE-4
SUPPLEMENTAL INFORMATION

Description of Project and Operation Limit

The proposed package boiler installation will provide supplemental steam to the facility. The boiler will be natural gas-fired only with a maximum steam production capacity of 75,000 lb/hour, which corresponds to a heat input capacity of 96.7 mmBtu/hour. Emissions of NO_x will be limited to a maximum increase of 39.9 tons/year. Due to the use of natural gas fuel, the emissions of other pollutants will be quite low.

Florida Power Corporation (FPC) requests that the operational limit of the unit placed in the permit be in terms of steam production. At an emission rate of 0.15 lb/mmBtu, the boiler will emit a maximum of 14.5 lb/hour. This will allow a total of 5,500 hours/year at capacity. Using the steam production capacity of 75,000 lb/hour, a total of 412,500,000 lb/year of steam may be produced at the annual limit of 39.9 tons of NO_x. FPC requests that this steam limit be used as the operation limit in the permit. FPC will maintain records of the steam production of the boiler.

III. EMISSIONS UNIT INFORMATION

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.

The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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, a 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.

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.

III. Part 1 - 1

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Emissions Unit Information Section 1

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Natural gas-fired package steam boiler		
2. Emissions Unit Identification Number : 004 [] No Corresponding ID [] Unknown		
3. Emissions Unit Status Code : A	4. Acid Rain Unit? [] Yes [X] No	5. Emissions Unit Major Group SIC Code : 49
6. Emissions Unit Comment :		

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Emissions Unit Control Equipment 1

1. Description :

2. Control Device or Method Code :

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Emissions Unit Details

1. Initial Startup Date :		
2. Long-term Reserve Shutdown Date :		
3. Package Unit :		
Manufacturer :	To be provided later.	Model Number : To be provided
4. Generator Nameplate Rating :		
	MW	
5. Incinerator Information :		
	Dwell Temperature :	Degrees Fahrenheit
	Dwell Time :	Seconds
	Incinerator Afterburner Temperature :	Degrees Fahrenheit

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :		
	97	mmBtu/hr
2. Maximum Incinerator Rate :		
	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
	75000	lbs steam/hr
5. Operating Capacity Comment :		
Heat input capacity is 96.7 mmBtu/hr. Steam generating capacity is 75,000 lb/hr. Applicant requests a total steam production limit of 412,500,000 lb/year in place of an hours of operation limit.		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :		
	24 hours/day	7 days/week
	52 weeks/year	5,500 hours/year

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Rule Applicability Analysis

Not Applicable

III. Part 6a - 1

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Emissions Unit Information Section
Natural gas-fired package steam boiler

1

List of Applicable Regulations

See Attachment TB-EU2-D

III. Part 6b - 1

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E. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	See Attach. TB-FE-2	
2. Emission Point Type Code :	1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking : (limit to 100 characters per point)		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	Gases exhaust through a single stack.	
5. Discharge Type Code :	V	
6. Stack Height :	20 feet	
7. Exit Diameter :	4.0 feet	
8. Exit Temperature :	°F	
9. Actual Volumetric Flow Rate :	acfm	
10. Percent Water Vapor :	0.00 %	
11. Maximum Dry Standard Flow Rate :	dscfm	
12. Nonstack Emission Point Height :	feet	
13. Emission Point UTM Coordinates :		
Zone : 0	East (km) : 0.000	North (km) : 0.000
14. Emission Point Comment :		

III. Part 7a - 1

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F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas	
2. Source Classification Code (SCC) :	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.09	5. Maximum Annual Rate : 495.00
6. Estimated Annual Activity Factor : 0.63	
7. Maximum Percent Sulfur : 0.00	8. Maximum Percent Ash : 0.00
9. Million Btu per SCC Unit : 1,040	
10. Segment Comment :	

III. Part 8 - 1

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Effective : 3-21-96

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - SO ₂			EL
2 - NO _X			EL
3 - PM ₁₀			EL
4 - CO			EL
5 - VOC			EL

III. Part 9a - 1

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted : SO2		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :	0.2700000 lb/hour	0.7400000 tons/year
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor	1	Units : grain/100 cf
Reference :		
7. Emissions Method Code : 2		
8. Calculations of Emissions : Assumed max. S content of 1 grain/100 cf. 5,500 hours of operation/yr.		
9. Pollutant Potential/Estimated Emissions Comment :		

III. Part 9b - 1

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted : NOX		
2. Total Percent Efficiency of Control :	0.00	%
3. Potential Emissions :	14.5000000 lb/hour	39.9000000 tons/year
4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions: <div style="text-align: right; margin-right: 100px;">to</div> <div style="text-align: right;">tons/year</div>		
6. Emissions Factor	0	Units : lb/mmBtu
Reference : Manufacturer data		
7. Emissions Method Code : 0		
8. Calculations of Emissions : 0.15 lb/mmBtu NOx emissions based on manufacturer data. Annual max. tons of NOx based on max. heat input of 96.7 mmBtu/hr and 5,500 equivalent full load hours of operation.		
9. Pollutant Potential/Estimated Emissions Comment :		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

III. Part 9b - 3

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted : PM10	
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	
0.7100000 lb/hour	1.9500000 tons/year
4. Synthetically Limited?	
[] Yes [X] No	
5. Range of Estimated Fugitive/Other Emissions:	
	to tons/year
6. Emissions Factor 8	Units : lb/MMcf
Reference : AP-42	
7. Emissions Method Code : 3	
8. Calculations of Emissions :	
AP-42 emission factor for total PM (all PM assumed to be PM10) and 5,500 hours operation/yr.	
9. Pollutant Potential/Estimated Emissions Comment :	

III. Part 9b - 4

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H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 4

1. Pollutant Emitted : CO		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
7.8000000 lb/hour	21.5000000 tons/year	
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:		
	to	tons/year
6. Emissions Factor 84	Units : lb/MMcf	
Reference : AP-42		
7. Emissions Method Code : 3		
8. Calculations of Emissions :		
AP-42 emission factor and 5,500 hours operation/yr.		
9. Pollutant Potential/Estimated Emissions Comment :		

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted : VOC		
2. Total Percent Efficiency of Control :		%
3. Potential Emissions :		
0.5000000 lb/hour		1.4000000 tons/year
4. Synthetically Limited?		
[] Yes	[X] No	
5. Range of Estimated Fugitive/Other Emissions:		
		to tons/year
6. Emissions Factor 6 Units : lb/MMcf		
Reference : AP-42		
7. Emissions Method Code : 3		
8. Calculations of Emissions :		
Ap-42 emission factor and 5,500 hours operation/yr.		
9. Pollutant Potential/Estimated Emissions Comment :		

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		1.00	gr S/100 cf
4. Equivalent Allowable Emissions :			
	0.27	lb/hour	0.74 tons/year
5. Method of Compliance :			
Fuel analysis			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
Allowable based on max. S content of 1 gr/100 cf of natural gas.			

Emissions Unit Information Section 1
 Natural gas-fired package steam boiler

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		ESCPSD	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :		0.15	lb/mmBtu
4. Equivalent Allowable Emissions :			
	14.50	lb/hour	39.90 tons/year
5. Method of Compliance :			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
39.9 tons/yr based on max. emission rate and 5,500 hrs/yr operation.			

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.70	lb/hr	
4. Equivalent Allowable Emissions :	0.70	lb/hour	2.00 tons/year
5. Method of Compliance :	VE, EPA Method 9		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	If VE < 10%, stack test not required.		

III. Part 9c - 3

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 4

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	7.80	lb/hr	
4. Equivalent Allowable Emissions :	7.80	lb/hour	21.50 tons/year
5. Method of Compliance :	Good combustion practices.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

III. Part 9c - 4

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	0.50	lb/hr	
4. Equivalent Allowable Emissions :	0.50	lb/hour	1.40 tons/year
5. Method of Compliance :	Good combustion practices.		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	10
2. Basis for Allowable Opacity :	OTHER
3. Requested Allowable Opacity :	Normal Conditions : 10 % Exceptional Conditions : 0 % Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	Annual compliance test, EPA Method 9
5. Visible Emissions Comment :	VE limit under normal conditions for natural gas firing.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :									
2. Basis for Allowable Opacity : RULE									
3. Requested Allowable Opacity : <table style="margin-left: auto; margin-right: auto; border: none;"><tr><td style="padding: 0 20px;">Normal Conditions :</td><td style="padding: 0 20px;"></td><td style="padding: 0 20px;">%</td></tr><tr><td style="padding: 0 20px;">Exceptional Conditions :</td><td style="padding: 0 20px;">100</td><td style="padding: 0 20px;">%</td></tr><tr><td style="padding: 0 20px;">Maximum Period of Excess Opacity Allowed :</td><td style="padding: 0 20px;">60</td><td style="padding: 0 20px;">min/hour</td></tr></table>	Normal Conditions :		%	Exceptional Conditions :	100	%	Maximum Period of Excess Opacity Allowed :	60	min/hour
Normal Conditions :		%							
Exceptional Conditions :	100	%							
Maximum Period of Excess Opacity Allowed :	60	min/hour							
4. Method of Compliance : EPA Method 9									
5. Visible Emissions Comment : 1. Rule 62-210.700. 2. Max. period of excess opacity allowed - 2 hours/24 hours.									

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Information Section

III. Part 11 - 1

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**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION**

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

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 : C	SO2 : C	NO2 : C
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

Natural gas-fired package steam boiler

Supplemental Requirements for All Applications

1. Process Flow Diagram :	IC-EU1-L1
2. Fuel Analysis or Specification :	IC-EU1-L2
3. Detailed Description of Control Equipment :	IC-EU1-L3
4. Description of Stack Sampling Facilities :	IC-EU1-L4
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 :	Appendix A
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :
11. Alternative Modes of Operation (Emissions Trading) :

III. Part 13 - 1

12. Identification of Additional Applicable Requirements :

13. Compliance Assurance Monitoring
Plan :

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. Part 13 - 2