

FLORIDA POWER CORPORATION  
BARTOW FACILITY

*Submitted to:*

**Florida Department of  
Environmental Protection**

*Prepared by:*




KBN Engineering and Applied Sciences, Inc.  
Gainesville, Florida

TITLE V  
AIR OPERATING  
PERMIT APPLICATION

1030011-002-AV

Facility: FPC Bartow  
ID: 1030011

DISK 1 of 1  
Date: June 25, 1996

 **Engineering and Applied  
Sciences, Inc.**

6-12-1996

U.S.  
4/23

6-12-1996

Facility: Florida Power Corporation  
Bartow Plant - Title V

ID: 1030011-002-AV

DISK 1 of 1  
Date: August 18, 1997

 **Golder Associates**

8/25/97 - V. W. Scanlon (EPR)

# Department of Environmental Protection

## DIVISION OF AIR RESOURCES MANAGEMENT

### APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy.

#### Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and the facility's physical location. If known, also enter the facility identification number.

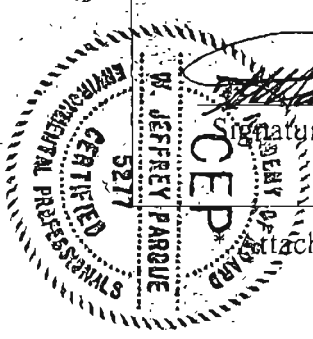
1. Facility Owner/Company Name: <b>Florida Power Corporation</b>	
2. Site Name: <b>Bartow Plant</b>	
3. Facility Identification Number: <b>1030011</b> [ ] Unknown	
4. Facility Location Information: Street Address or Other Locator: <b>Weedon Island</b> City: <b>St.Petersburg</b> County: <b>Pinellas</b> Zip Code: <b>32462</b>	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: <b>W. Jeffrey Pardue, C.E.P., Director, Env Services Dept</b>
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: <b>Florida Power Corporation</b> Street Address: <b>3201 34th Street South</b> City: <b>St. Petersburg</b> State: <b>FL</b> Zip Code: <b>33711</b>
3. Owner/Authorized Representative or Responsible Official Telephone Numbers:  Telephone: <b>(813) 855-5151</b> Fax: <b>(813) 866-4926</b>
4. Owner/Authorized Representative or Responsible Official Statement:  <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>
Signature: <u><i>W. Jeffrey Pardue</i></u> Date: <u>6-12-96</u>



Attach letter of authorization if not currently on file.

**Scope of Application**

This Application for Air Permit addresses the following emissions unit(s) at the facility. An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

<b>Emissions Unit ID</b>		<b>Description of Emissions Unit</b>	<b>Permit Type</b>
<b>Unit #</b>	<b>Unit ID</b>		
1R	001	No. 1 Unit, Fossil Fuel Steam Generator	
2R	002	No. 2 Unit, Fossil Fuel Steam Generator	
3R	003	No. 3 Unit, Fossil Fuel Steam Generator	
4R	004	Bartow-Anclote Pipeline Heating Boiler	
5R	*	Peaking Gas Turbine Units 1,2,3,4	
6R	009	Bartow No.1-Fly Ash System	
7		Facility-wide Fugitive/DeMinimis Emissions	
8R		3-820 kw Diesel Generators (Relocatable)	

See individual Emissions Unit (EU) sections for more detailed descriptions.  
Multiple EU IDs indicated with an asterisk (\*). Regulated EU indicated with an "R".

**Purpose of Application and Category**

Check one (except as otherwise indicated):

**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 renewed: \_\_\_\_\_

- 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. Also check Category III.

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. Give reason for the revision e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_

\_\_\_\_\_

**Category II: All Air Construction 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. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit to be revised: \_\_\_\_\_

Reason for revision: \_\_\_\_\_  
\_\_\_\_\_

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

This Application for Air Permit is submitted to obtain:

- Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any: \_\_\_\_\_  
\_\_\_\_\_

- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

Current operation permit number(s): \_\_\_\_\_  
\_\_\_\_\_

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

**Application Processing Fee**

Check one:

Attached - Amount: \$ \_\_\_\_\_  Not Applicable.

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Kennard F. Kosky</b> Registration Number: <b>14996</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>KBN Eng and Applied Sciences</b> Street Address: <b>6241 NW 23rd Street, Suite 500</b> City: <b>Gainesville</b> State: <b>FL</b> Zip Code: <b>32653-1500</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>(352) 336-5600</b> Fax: <b>(352) 336-6603</b>



4. Professional Engineer's Statement:

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

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

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

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

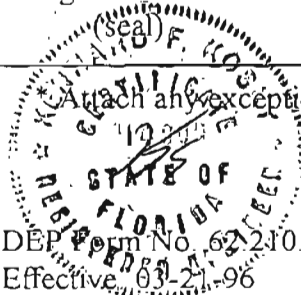
*Yusuf A. Haf*

Signature

*6/9/96*

Date

Attach any exception to certification statement.



**Application Contact**

1. Name and Title of Application Contact: <b>Scott Osbourn, Senior Environmental Engineer</b>
2. Application Contact Mailing Address:  Organization/Firm: <b>Florida Power Corporation</b> Street Address: <b>3201 34th Street South</b> City: <b>St. Petersburg</b> State: <b>FL</b> Zip Code: <b>33711</b>
3. Application Contact Telephone Numbers:  Telephone: <b>(813) 866-5158</b> Fax: <b>(813) 866-4926</b>

**Application Comment**

<b>See Attachment TVAI-1</b>
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**ATTACHMENT TVAI-1**  
**APPLICATION COMMENT**

## ATTACHMENT TVA-1

This Title V application is for the Bartow Facility. The application's structure is as follows:

	Emission Units					
	EU1, EU2, EU3 Boilers	EU 4 Pipeline Heater	EU5 Gas Turbines	EU6 Fly Ash System	EU7 Diesel Generators	EU8 Facility-Wide
General	3	1	4 peaking units	1 - Boiler No. 1	3 - 820 kW diesel generators (relocatable)	Fugitive/ DeMinimis emissions
Emission Points	1 stack per boiler	1 Stack	1 stack per turbine	1 Baghouse	1 stack per generator	Fugitive
Segments*	No. 6 fuel oil Natural gas (EU3 only) No. 2 fuel oil (pilot fuel for startup, shutdown, malfunctions) Propane (EU2, EU3 - flame stabilization) on spec used oil	No. 2 fuel, natural gas, propane	No.2 fuel oil	Fly ash	Distillate fuel oil	Various
Pollutants	SO <sub>2</sub> , PM	SO <sub>2</sub>	SO <sub>2</sub>	PM	SO <sub>2</sub>	Not applicable
VE Emissions	VE limits applicable	VE Limits	VE limits applicable	VE Limits	VE limits applicable	Not applicable
CEM	SO <sub>2</sub> , NO <sub>x</sub> , opacity, flow	none	none	none	none	Not applicable
PSD	Existing Baseline Sources	Existing Baseline Sources	Existing Baseline Sources	Existing Baseline Sources	SO <sub>2</sub> , PM10, NO <sub>2</sub>	Existing Baseline Sources

\*The fossil fuel steam generating units may also fire "on-specification" used oil and evaporate non-hazardous boiler chemical cleaning waste waters. These activities will be conducted pursuant to the policy guidance from DARM. Conducting these activities will neither affect the emissions from the steam generating units nor affect compliance with any applicable requirement.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: <b>17</b> East (km): <b>342.4</b> North (km): <b>3082.6</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>27 / 52 / 10</b> Longitude: (DD/MM/SS): <b>82 / 35 / 59</b>			
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>49</b>	6. Facility SIC(s):
7. Facility Comment (limit to 500 characters):  <p><b>The Bartow Facility consists of 3 fossil fuel steam gen, 1 pipeline heating blr, 1 fly ash sys, &amp; 4 GT peaking units. The steam gen are fired with No.6 fuel oil, on-spec. used oil, &amp; natural gas (Unit No.3) (distillate fuel oil is used as an ignitor; Unit No.2,3 use propane for flame stabilization). Peaking units are fired with No.2 fuel oil. Pipeline blr is fired with natural gas, propane or No.2 fuel oil. Three diesel gen, 820 kw each, can be relocated to this plant or 6 other FPC plants.</b></p>			

#### Facility Contact

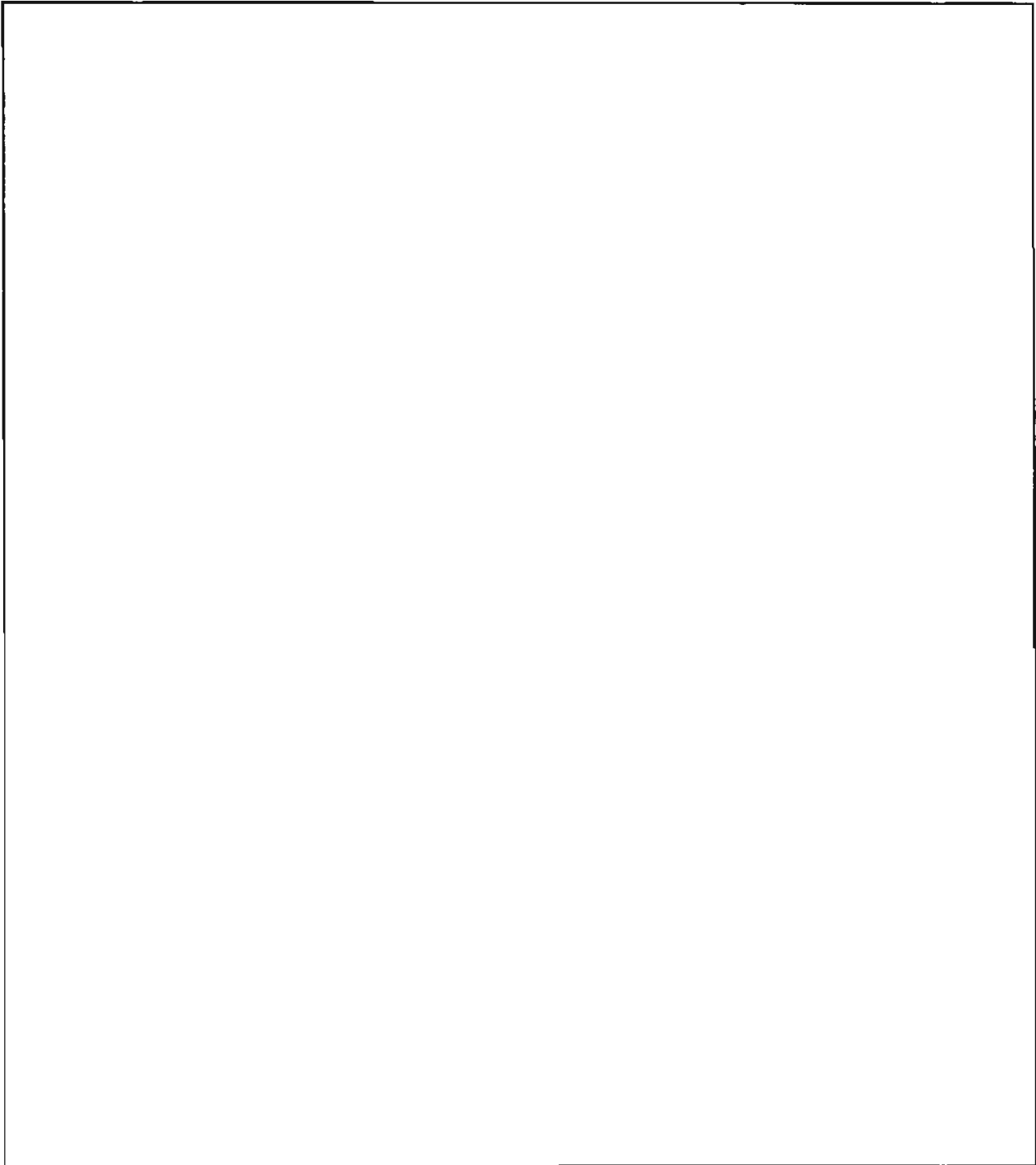
1. Name and Title of Facility Contact: <b>B.M. Cumbie, Plant Manager</b>
2. Facility Contact Mailing Address: Organization/Firm: <b>Florida Power Corporation</b> Street Address: <b>P.O. Box 14042</b> City: <b>St. Petersburg</b> State: <b>FL</b> Zip Code: <b>33733</b>
3. Facility Contact Telephone Numbers: Telephone: <b>(407) 668-5103</b> Fax: <b>(407) 646-8370</b>

### **Facility Regulatory Classifications**

1. Small Business Stationary Source?		
[ ] Yes	[ <b>x</b> ] No	[ ] Unknown
2. Title V Source?		
[ <b>x</b> ] Yes	[ ] No	
3. Synthetic Non-Title V Source?		
[ ] Yes,	[ <b>x</b> ] No	
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?		
[ <b>x</b> ] Yes	[ ] No	
5. Synthetic Minor Source of Pollutants Other than HAPs?		
[ ] Yes	[ <b>x</b> ] No	
6. Major Source of Hazardous Air Pollutants (HAPs)?		
[ <b>x</b> ] Yes	[ ] No	
7. Synthetic Minor Source of HAPs?		
[ ] Yes	[ <b>x</b> ] No	
8. One or More Emissions Units Subject to NSPS?		
[ ] Yes	[ <b>x</b> ] No	
9. One or More Emissions Units Subject to NESHAP?		
[ ] Yes	[ <b>x</b> ] No	
10. Title V Source by EPA Designation?		
[ ] Yes	[ <b>x</b> ] No	
11. Facility Regulatory Classifications Comment (limit to 200 characters):		

## B. FACILITY REGULATIONS

**Rule Applicability Analysis** (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)



**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

**See Attachment BA-FE-B**



## C. FACILITY POLLUTANTS

### Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
SO2 Sulfur Dioxide	A
PM Particulate Matter - Total	A
PM10 Particulate Matter - PM10	A
NOx Nitrogen Oxides	A
CO Carbon Monoxide	A
VOC Volatile Organic Compounds	A
SAM Sulfuric Acid Mist	A
H133 Nickel Compounds	A
HAPS Total Hazardous Air Pollutants	A

**D. FACILITY POLLUTANT DETAIL INFORMATION**

**Facility Pollutant Detail Information:**

1. Pollutant Emitted:		
2. Requested Emissions Cap:	(lb/hr)	(tons/yr)
3. Basis for Emissions Cap Code:		
4. Facility Pollutant Comment (limit to 400 characters):		

**Facility Pollutant Detail Information:**

1. Pollutant Emitted:		
2. Requested Emissions Cap:	(lb/hr)	(tons/yr)
3. Basis for Emissions Cap Code:		
4. Facility Pollutant Comment (limit to 400 characters):		

**E. FACILITY SUPPLEMENTAL INFORMATION**

**Supplemental Requirements for All Applications**

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-FE-1</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-FE-2</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID(s): <u>BA-FE-3</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-FE-4</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-FE-5</u> <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Supplemental Requirements for Category I Applications Only**

7. List of Proposed Exempt Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. List of Equipment/Activities Regulated under Title VI: <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-FE-8</u> <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable
9. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

<p>11. Identification of Additional Applicable Requirements:</p> <p><input type="checkbox"/> Attached, Document ID: _____</p> <p><input checked="" type="checkbox"/> Not Applicable</p>
<p>12. Compliance Assurance Monitoring Plan:</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <b>BA-FE-12</b> _____</p> <p><input type="checkbox"/> Not Applicable</p>
<p>13. Risk Management Plan Verification:</p> <p><input type="checkbox"/> Plan Submitted to Implementing Agency - Verification Attached Document ID: _____</p> <p><input checked="" type="checkbox"/> Plan to be Submitted to Implementing Agency by Required Date</p> <p><input type="checkbox"/> Not Applicable</p>
<p>14. Compliance Report and Plan</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <b>BA-FE-14</b> _____</p> <p><input type="checkbox"/> Not Applicable</p>
<p>15. Compliance Statement (Hard-copy Required)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <b>BA-FE-15</b> _____</p> <p><input type="checkbox"/> Not Applicable</p>

**ATTACHMENT BA-FE-B**  
**FACILITY REGULATIONS**

## ATTACHMENT BA-FE-B

### Applicable Requirements Listing - Power Plants

FACILITY: FPC Bartow Power Plant

#### FDEP Rules:

##### General Permits:

- 62-4.030
- 62-4.040(1)(a) - Exemptions from permitting
- 62-4.040(1)(b) - Exemptions from permitting
- 62-4.100
- 62-4.130

##### Asbestos NESHAP:

- 62-204.800(8)(b)8. (State Only) - Asbestos Removal
- 62-204.800(8)(d) (State Only) - General Provisions (Asbestos)

##### Stationary Sources-General:

62-210.300(2)

##### Exemptions - Plant Specific:

- 62-210.300(3)(a)4. - comfort heating < 1 mmBtu/hr
- 62-210.300(3)(a)5. - mobile sources
- 62-210.300(3)(a)7. - non-industrial vacuum cleaning
- 62-210.300(3)(a)8. - refrigeration equipment
- 62-210.300(3)(a)9. - vacuum pumps for labs
- 62-210.300(3)(a)10. - steam cleaning equipment
- 62-210.300(3)(a)11. - sanders < 5 ft<sup>2</sup>
- 62-210.300(3)(a)12. - space heating equip.; (non-boilers)
- 62-210.300(3)(a)14. - bakery ovens
- 62-210.300(3)(a)15. - lab equipment
- 62-210.300(3)(a)16. - brazing, soldering or welding
- 62-210.300(3)(a)17. - laundry dryers
- 62-210.300(3)(a)20. - emergency generators < 32,000 gal/yr
- 62-210.300(3)(a)21. - general purpose engines < 32,000 gal.yr
- 62-210.300(3)(a)22. - fire and safety equipment
- 62-210.300(3)(a)23. - surface coating > 5% VOC; 6 gal/month
- 62-210.300(3)(a)24. - surface coating < 5% VOC
- 62-210.300(3)(b) - Temporary Exemptions
- 62-210.370(3) - AOR's
- 62-210.900(5) - AOR Form

**Title V Permits:**

- 62-213.205(1)(a) - Fees
- 62-213.205(1)(b)
- 62-213.205(1)(c)
- 62-213.205(1)(e)
- 62-213.205(1)(f)
- 62-213.205(1)(g)
- 62-213.205(1)(i)
- 62-213.205(1)(j)
- 62-213.400 - Permits/Revisions
- 62-213.410 - Changes without permit revisions
- 62-213.420.(1)(b)2. - Permits-allows continued operation
- 62-213.420.(1)(b)3. - Permits-additional information
- 62-213.460 - Permit Shield
- 62-213.900(1) - Fee Form

**Open Burning:**

- 62-256.300 - Prohibitions
- 62-256.500 - Land Clearing
- 62-256.700 - Open burning Allowed

**Asbestos Removal:**

- 62-257.301 - Notification and Fee
- 62-257.400 - Fee Schedule
- 62-257.900 - Form

**Stationary Sources-Emission Standards:**

- 62-296.320(2) (State Only) - Odor
- 62-296.320(3)(b)(State Only) - Emergency Open Burning
- 62-296.320(4)(b) - General VE Standard
- 62-296.320(4)(c) - Unconfined Emissions of Particulate Matter

**Stationary Sources-Emission Monitoring**

- 62-297.310(7)(a)10. - Exemption of annual VE for 210.300(3)(a) sources/Gen. Per.

**Federal Regulations:****Asbestos Removal:**

- 40 CFR 61.05 - Prohibited Activities
- 40 CFR 61.12(b) - Compliance with work practice standard
- 40 CFR 61.14 - Monitoring Requirements (if required)
- 40 CFR 61.19 - Circumvention

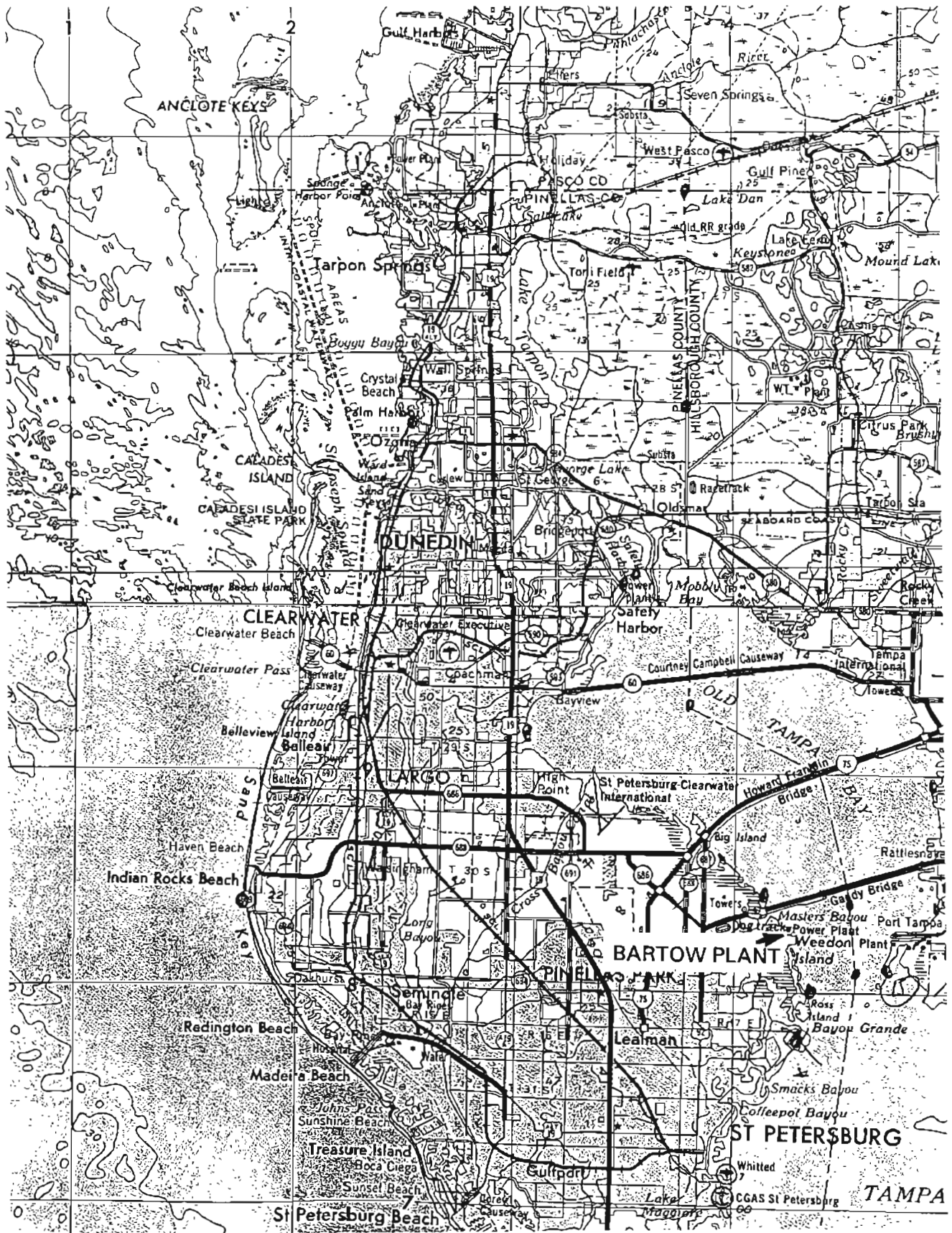
40 CFR 61.145  
40 CFR 61.148

- Demolition and Renovation  
- Standard for Insulating Material



**ATTACHMENT BA-FE-1**

**AREA MAP**



Attachment BA-FE-1  
 Florida Power Corporation, Bartow Plant

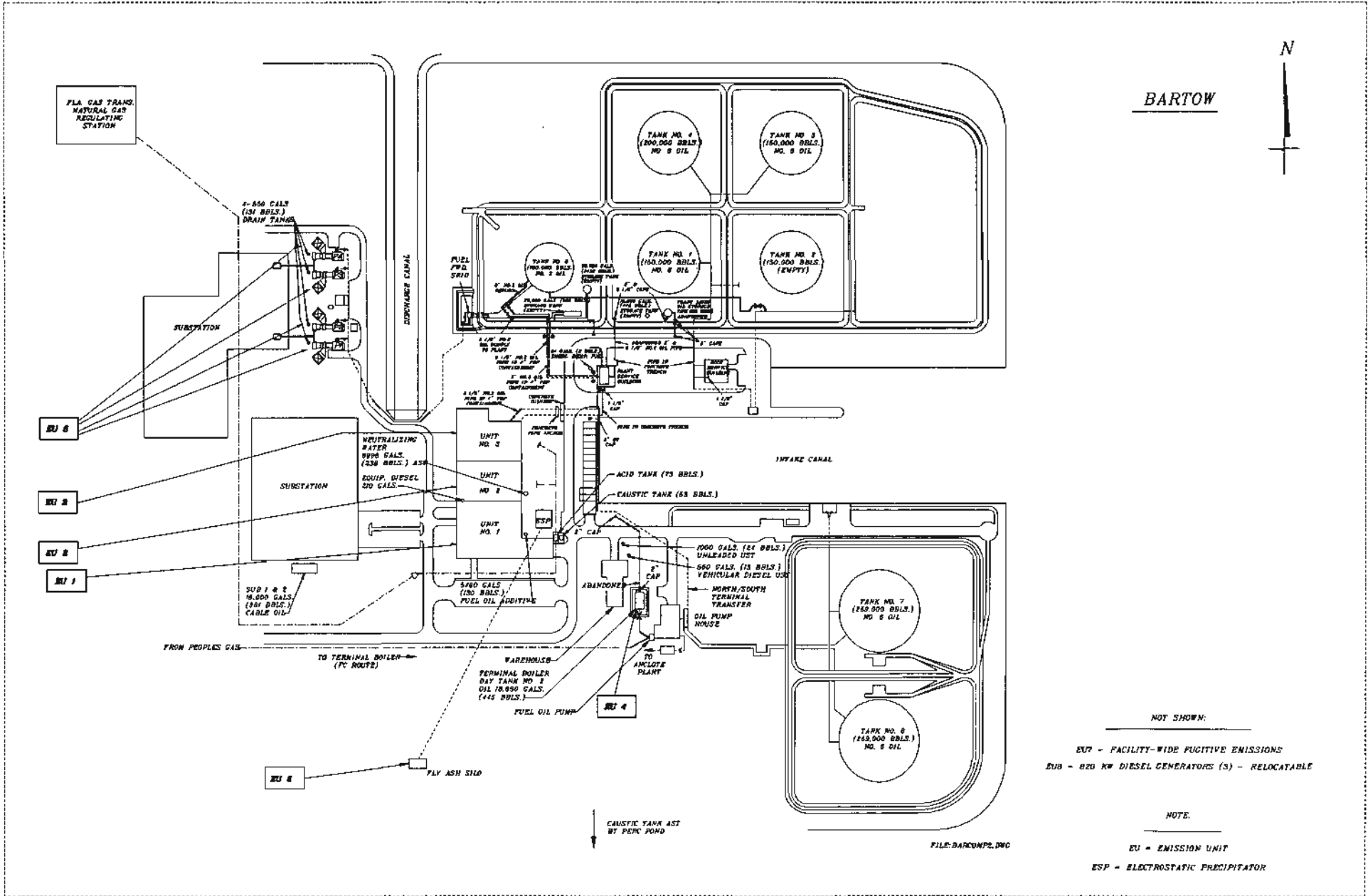


**ATTACHMENT BA-FE-2**

**FACILITY PLOT PLAN**

Best Available Copy

BARTOW



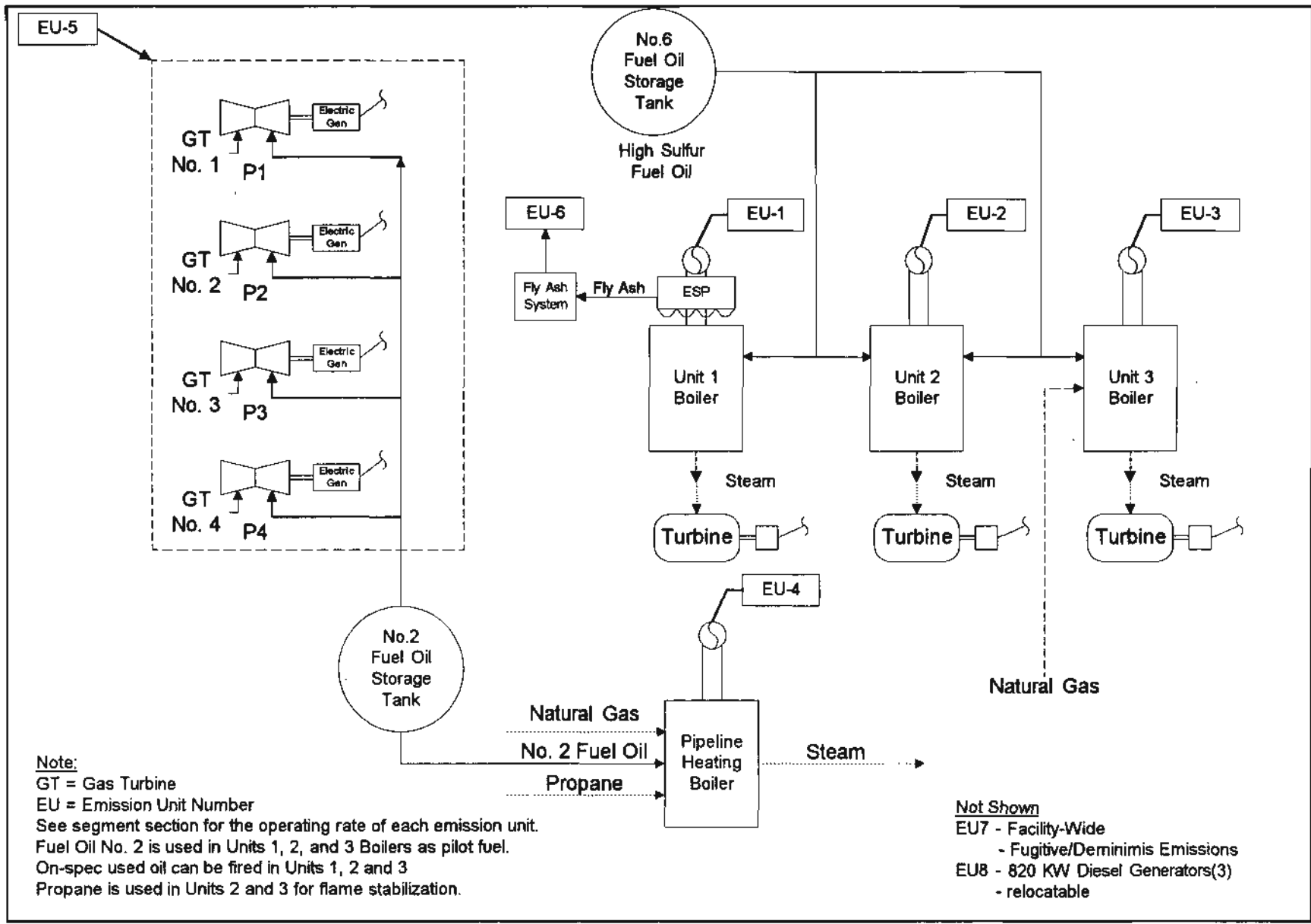
NOT SHOWN:

- EUT - FACILITY-WIDE FUGITIVE EMISSIONS
- EUB - 820 KW DIESEL GENERATORS (3) - RELOCATABLE

NOTE:

- EU - EMISSION UNIT
- ESP - ELECTROSTATIC PRECIPITATOR

**ATTACHMENT BA-FE-3**  
**PROCESS FLOW DIAGRAM**



<b>Process Flow Legend</b> 	<b>Florida Power Corporation, Bartow Plant</b> <b>Process Flow Diagram</b>	<b>Emission Unit:</b> Overall Plant	<b>Engineering and Applied Sciences, Inc.</b>
		<b>Process Area:</b> Overall Plant	
		<b>Filename:</b> FPCBA.VSD	
		<b>Latest Revision Date:</b> 6/1/96 11:43 AM	

**ATTACHMENT BA-FE-4**

**PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE  
MATTER**

**ATTACHMENT BA-FE-4**  
**PRECAUTIONS TO PREVENT EMISSIONS**  
**OF UNCONFINED PARTICULATE MATTER**

The facility has negligible amounts of unconfined particulate matter as a result of the operation of the facility. Potential examples of particulate matter include:

- Fugitive dust from paved and unpaved roads, and
- Fugitive particulates from the use of bagged chemical products.

Operational measures are undertaken at the facility which also minimize particulate emissions, in accordance with 62-296.310(3), F.A.C.:

- Maintenance of paved areas as needed,
- Regular mowing of grass and care of vegetation, and
- Limiting access to plant property by unnecessary vehicles.



**ATTACHMENT BA-FE-5**  
**FUGITIVE EMISSIONS IDENTIFICATION**

## ATTACHMENT BA-FE-5 FUGITIVE EMISSIONS IDENTIFICATION

Many fugitive emissions at the plant site have been classified as "trivial activities" (as presented in EPA's memorandum, "White Paper for Streamlined Development of Part 70 Permit Applications," July 10, 1995). As a result, these activities are not included as part of this permit application. For example, emissions from general plant maintenance and upkeep activities at the facility would be considered fugitive emissions, but have been judged to be trivial since these activities are not conducted as part of a manufacturing process, not related to the source's primary business activity, and do not otherwise trigger a permit modification.

Fugitive emissions that may result from the operation of activities that are not trivial at the facility are addressed in Emission Unit No. 7. This emission unit contains information on fugitive emissions that occur on a facility-wide basis. A summary of potential fugitive/*de minimis* emission sources at the facility is presented in the following sections.

### Criteria and Precursor Air Pollutants

FPC has not identified fugitive emission of sulfur dioxide, nitrogen oxides, carbon monoxide, or lead compounds which would exceed the thresholds defined in the permit application instructions.

### Volatile Organic Compounds (VOCs)

Fugitive/*de minimis* emissions of VOCs include those resulting from the use of cleaners and solvents for maintenance and operation. VOCs are also emitted by the various fuel oil storage tanks on the plant property, and generator and turbine lube oil vents.

### Fugitive HAPs Emissions

The following hazardous air pollutants are or may be present on the facility property and are potential sources of fugitive HAPs emissions:

- asbestos
- benzene
- chlorine
- hydrazine
- hydrochloric acid
- mercury compounds
- methyl ethyl ketone
- toluene
- xylene

**Asbestos** - Present in gasket material, pipe insulation, and various other locations. The facility complies with the federal NESHAPS (40 CFR 61 Subpart M) and state rules (62-257, F.A.C.) governing the abatement of asbestos-containing materials. No releases of asbestos are expected for the facility.

**Benzene** - Present in unleaded gasoline. The facility maintains a storage tank for unleaded gasoline. These emissions have been calculated to be significantly less than 1 TPY.

**Chlorine** - Used for water treatment at the facility.

**Hydrazine** - Hydrazine solution may be used for the treatment of boiler water.

**Hydrochloric Acid** - The facility may utilize hydrochloric acid in the chemistry laboratory for use in analytical procedures.

**Mercury Compounds** - The facility uses mercury-containing compounds in the chemistry laboratory for use in analytical procedures and flow-measuring equipment.

**Methyl Ethyl Ketone, Toluene, Xylene** - The facility uses paint thinners and solvents (which may contain MEK, toluene, or xylene) for use in plant maintenance activities. These containers are kept closed and are stored in weather-tight buildings. These emissions as a whole are addressed in the VOC section (preceding page).

#### **Regulated Toxic or Flammable Substances**

The following regulated toxic or flammable substances are or may be present at the FPC facility:

- ammonia (aqueous, concentration 20 percent or greater)
- chlorine
- hydrazine
- hydrochloric acid
- nitric acid
- acetylene

**Ammonia** - Used for boiler water treatment.

**Chlorine, Hydrazine, Hydrochloric Acid** - Considered on the preceding page.

**Nitric Acid** - Nitric acid may be used in the chemistry laboratory for use in analytical procedures.

**Acetylene** - Present on the facility property in 250-lb cylinders which are used for plant maintenance (welding and cutting).

**ATTACHMENT BA-FE-8**

**LIST OF EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI**

**ATTACHMENT BA-FE-8**  
**LIST OF EQUIPMENT/ACTIVITIES - TITLE VI**

The Bartow Plant currently has two air conditioning units on the plant facility, which meet the 50-pound threshold established by the Department.

<u>Model Name</u>	<u>Unit Number</u>	<u>Serial Number</u>	<u>Amount (lb)</u>
CAR	A01-Chiller S.	740015	150
CAR	A02-Chiller N.	4283PA8448	150

**ATTACHMENT BA-FE-12**  
**COMPLIANCE ASSURANCE MONITORING PLAN**

**ATTACHMENT BA-FE-12**

Compliance Assurance Monitoring Plan to be submitted to implementing agency by required date.



**ATTACHMENT BA-FE-14**  
**COMPLIANCE REPORT AND PLAN**

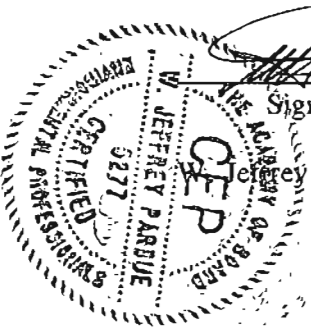
## COMPLIANCE REPORT AND PLAN

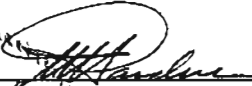
The facility and emissions units identified in this application are in compliance with the Applicable Requirements identified in Sections B and D of the application form and attachments referenced in Section E. 11. and L. 12. (if included). Compliance is certified as of the date this application and is submitted to the Florida Department of Environmental Regulation as required in Rule 62-213.420(1)(a) F.A.C. Compliance will be certified no less frequently than annually or as required by the applicable requirement.

**ATTACHMENT BA-FE-15**  
**COMPLIANCE STATEMENT**

ATTACHMENT BA-FE-15  
COMPLIANCE STATEMENT

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.



  
\_\_\_\_\_  
Signature, Responsible Official

6-12-96  
Date

Jeffrey Pardue, C.E.P., Director, Environmental Services Department

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*Emissions Unit 1*

TWIA TOWERS OFFICE BUILDING  
2200 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



RON BRAMAN  
GOVERNOR  
JACOB D. VARN  
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

March 20, 1981

W. E. O'Brien  
Florida Power Corporation  
3201 34th Street South  
P. O. Box 14042  
St. Petersburg, Florida 33733

Dear Mr. O'Brien:

Enclosed is Permit Number AC 52-36102, dated March 18, 1981  
to Florida Power Corporation  
issued pursuant to Section 403, Florida Statutes.

Acceptance of the permit constitutes notice and agreement that the  
Department will periodically review this permit for compliance,  
including site inspections where applicable, and may initiate  
enforcement actions for violation of the conditions and require-  
ments thereof.

Sincerely,

*Steve Smallwood*

Steve Smallwood, Chief  
Bureau of Air Quality Management

DER Form 17-1.122(65)

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STATE OF FLORIDA  
DEPARTMENT OF  
ENVIRONMENTAL REGULATION

CONSTRUCTION  
PERMIT

NO. 100-27102

FLORIDA POWER CORPORATION  
PROJECT ORDER NO. 1

DATE OF ISSUANCE

DATE OF EXPIRATION

VICTORIA J. SCHINKEL  
SECRETARY

**Final Determination**

**Florida Power Corporation  
Bartow Unit No. 1**

**Construction Permit  
Application Number:  
AC 52-36102**

**Florida Department of Environmental Regulation  
Bureau of Air Quality Management  
Central Air Permitting  
March 20, 1981**

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Final Determination

Florida Power Corporation's (FPC) application for a permit to modify its Bartow Unit No. 1 located on Weedon Island in Pinellas County, Florida has been reviewed by the Bureau of Air Quality Management. Public notice of the Department's intent to issue the construction permit was published in the St. Petersburg Times on February 9, 1981.

Copies of the preliminary determination have been made available for public inspection at the Pinellas County's Department of Environmental Management in Clearwater, the Department's Bureau of Air Quality Management in Tallahassee and the Department's Southwest District Office in Tampa.

The only comments received on the proposed construction permit were from FPC. Their comments were on (1) typing errors, (2) the visible emission limit, (3) the use of 100% fuel oil and (4) compliance test methods. The Department is in agreement with the FPC comments and have made the necessary changes to the permit.

Specifically, the comments were as follows:

- (1) FPC pointed out that the word "minimum" should be "maximum" and the SO<sub>2</sub> standard should be 2.75 lb/MMBTU instead of 2.76 lb/MMBTU (Page 2; item IIId).
- (2) FPC requested the visible emission standard be 40% opacity as allowed by Chapter 17-2, Table II, instead of 20/27% that was proposed in the Preliminary Determination. This option is provided in 17-2.05.
- (3) FPC requested that Bartow Unit 1 be allowed to burn 100% No. 6 fuel oil as well as the combination fuel, and be allowed to operate without the electrostatic precipitator when burning 100% No. 6 fuel oil. This would, in effect, allow operation in accordance with present permit conditions as if no modification had taken place.
- (4) FPC asked if the "other Department-approved methods" mentioned in specific condition 11 allows the use of test method 17 to determine particulate matter emissions and fuel analyses for sulfur in lieu of test method 6 to determine sulfur dioxide emissions. The Department agrees that the condition allows the use of these methods and, therefore, no change will be made to this specific condition.

The final action by the Department will be to issue the permit with the changes noted above.



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TWIN TOWERS OFFICE BUILDING  
2908 BLANK STONE ROAD  
TALLAHASSEE, FLORIDA 32301



BOB GRAMAM  
GOVERNOR  
JACOB B. VARN  
SECRETARY

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICANT: Florida Power Corporation  
P. O. Box 14042  
St. Petersburg, Florida 33733

PERMIT CERTIFICATION  
NO. AC 52-36102

COUNTY: Pinellas  
PROJECT: Bartow Unit No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2  
and 17-6, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to  
perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and  
made a part hereof and specifically described as follows:

For (1) the installation of an electrostatic precipitator having a minimum efficiency of 97.9 percent to remove the additional particulate matter generated from burning a combination oil and coal fuel, and (2) those changes to the boiler needed to burn the combination fuel, and (3) construction of a fly ash silo and pneumatic conveyor controlled by a bag filter for Bartow Unit No. 1 located on Weedon Island in Pinellas County. The UTM coordinates of Bartow Unit No. 1 are 342.38 E and 2082.72 N.

Construction shall be in accordance with the attached permit application, plans, documents and drawing except as provided on pages 3 and 4, Specific Conditions.

Attachments:

- Application to Construct Air Pollution Sources
- Florida Power Corporation letter of 2/27/81

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PERMIT NO.: AC 52-36102  
APPLICANT: Florida Power Corporation

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions," and as such are binding upon the permittee and enforceable pursuant to the authority of Section 402.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated date the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

4. As provided in subsection 402.087(8), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

5. This permit is required to be placed in a conspicuous location at the work site or source during the entire period of construction or operation.

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prohibited by Section 402.111, F.S.

7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exemption from department rules or state records.

9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transfer is applied for and receives a transfer of permit.

10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.

11. This permit does not include a waiver of or approval of any other department permit that may be required for other aspects of the total project.

12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may exercise state opinion as to title.

13. This permit also constitutes:

- || Determination of Best Available Control Technology (BACT)
- || Determination of Prevention of Significant Deterioration (PSD)
- || Certification of Compliance with State Water Quality Standards (Section 401, F.S. 92.500)

## BEST AVAILABLE COPY

PERMIT NO.: AC 52-36102  
 APPLICANT: Florida Power Corporation

## SPECIFIC CONDITIONS:

1. Combination fuel oil (oil and coal) will not be burned in the boiler unless the electrostatic precipitator is in operation. Use of the precipitator is not required when burning 100% fuel oil.
2. Maximum heat input to Bartow Unit 1 will be 1,220 million BTU/hr while burning either combination fuels or 100% No. 6 fuel oil.
3. Maximum particulate emission from Bartow Unit 1 will be 0.10 lb/MMBTU input and 122 lb/hr.
4. Sulfur in the fuel used in the boiler will be controlled so that theoretical emissions do not exceed 2.75 lb. SO<sub>2</sub>/MMBTU input and 3,355 lb/hr. at maximum heat input.
5. Visible emissions from the boiler shall not exceed 40% opacity provided FPC elects to make quarterly particulate matter compliance tests until less frequent test requirements are approved by the Secretary in accordance with 17-2.05 Table IIE(b).
6. Maximum hours of operation will be 8,760 hours per year.
7. Particulate emissions from the bag filter controlling the fly ash silo and conveying system shall not exceed 0.02 grains/DSCF or 5 percent opacity.
8. Reasonable precautions to prevent fugitive particulate emissions during construction such as coating of roads and construction sites used by contractors will be taken by FPC.
9. Construction and schedule shall reasonably conform to the plans submitted in the application.
10. The applicant shall report any delays in construction and completion.
11. Before the construction permit expires, Bartow Unit 1 will be tested for particulate matter, sulfur dioxide and visible emissions during normal operations near 1,220 MMBTU/hr heat input while burning combination fuel and 100% fuel oil. The electrostatic precipitator will not be used during the compliance test with 100% fuel oil. Test methods will be EPA reference methods 1, 2, 3, 4, 5, 6, and 9 as described in 40 CFR 60, Appendix A or other Department approved methods. Testing will include the effect of soot blowing. Minimum sample volume and time will be that given in New Source Performance Standards (NSPS) in 40 CFR 60.46 for fossil-fuel steam generators. The bag filter serving the silos will be sampled for particulate matter if the visible emission test results are in excess of 5% opacity.

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PERMIT NO.: AC 52-36102  
APPLICANT: Florida Power Corporation

Specific Conditions (Con't)

- 12. The applicant will demonstrate compliance with the conditions of the construction permit and submit a complete application for an operating permit to the Southwest District Office prior to 90 days before the expiration date of the construction permit. The permittee may continue to operate in compliance with all terms of the construction permit until the expiration date or until issuance of an operating permit.

*Victoria J. Pachinski*  
Victoria J. Pachinski,  
Secretary

Expiration Date: January 31, 1983

Issued this 18 day of March, 1981

Pages Attached: \_\_\_\_\_

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

*Victoria J. Pachinski*  
Signature



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

RECEIVED

DEC 31 1993

Environmental Svcs  
Department

## NOTICE OF PERMIT ISSUANCE

### CERTIFIED MAIL

Mr. W. Jeffrey Pardue  
Manager, Environmental Programs  
Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, FL 33733

DEP File No.: A052-233149  
County: Pinellas

Enclosed is Permit Number A029-233149 to operate Bartow Plant Fossil Fuel Steam Generator Unit NO. 1, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 299 & 17-4.

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

The Petition shall contain the following information:

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

(d) A statement of the material facts disputed by petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

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

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

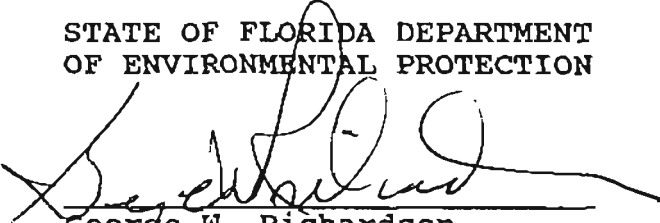
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of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

Mr. W. Jeffrey Pardue  
St. Petersburg, FL 33733

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
George W. Richardson  
Air Permitting Engineer  
Southwest District

3804 Coconut Palm Drive  
Tampa, FL 33619-8318  
(813)744-6100, Ext. 420

cc: Pinellas County Department of Environmental Management  
Albert W. Morneault, P.E., Florida Power Corporation

Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on DEC 29 1993 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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

  
Clerk

DEC 29 1993  
Date



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

PERMITTEE:

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, FL 33733 /

PERMIT/CERTIFICATION

Permit No: A052-233149  
County: Pinellas  
Expiration Date: 12-28-98  
Project: Bartow Plant Fossil  
Fuel Steam Generator  
Unit No. 1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 299 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of Bartow Plant Fossil Fuel Steam Generator Unit No. 1 rated at 120 MW/hour with a maximum heat input rate of 1,220 MMBTU/hour. This unit is fired with new No. 6 fuel oil having a maximum sulfur content not to exceed 2.5% by weight. The maximum fuel usage is 187.0 BBL/hour. Emissions are controlled by a General Electric Environmental Services, Inc., Model 1-BAB1.2x37(9)36.0-434-4.3P, Electrostatic Precipitator consisting of five fields in depth. A Contraves Goerz Model 701 Continuous Emissions Monitor (CEM) for opacity with a recorder is used for continual observation of stack opacity.

Location: Weedon Island, St. Petersburg, Pinellas County.

UTM: 17-342.4 E 3082.7 N NEDS NO: 0011 Point ID: 01

Replaces Permit No.: A052-149126



PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-233149  
Project: Bartow Plant Fossil  
Fuel Steam Generator  
Unit No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions. [Rule 17-4.160, F.A.C.].

2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

Operational and Emission Limitations

3. This boiler is permitted for continuous operation, 8,760 hours/year (As requested by applicant).

4. This boiler shall be fired with new No. 6 fuel oil at a maximum heat input rate not to exceed 1,220 MMBTU/hour, 7,854 gallons/hour (Previous permits and information supplied with application).

5. Sulfur content of the new No. 6 fuel oil fired in this boiler shall not exceed 2.5% sulfur by weight. In no case shall sulfur dioxide emissions from this boiler exceed 2.75 pounds/MMBTU of heat input nor 3,355 pounds per hour at maximum heat input rate. (Previous permits and Rule 17-296.405(1)(c)1.k., F.A.C.).

6. Particulate emissions from this boiler shall be limited as follows:

- A. During steady state operations, particulate emissions shall not exceed 0.10 pounds/MMBTU, 122.0 pounds per hour, nor 534.4 tons per year;
- B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 366.0 pounds per hour during the 3 hour period of allowed excess emissions, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.

[Rules 17-296.702(2)(a) and 17-210.700(3), F.A.C.].

7. Visible emissions from this boiler shall be limited as follows:

- A. During steady state operations, visible emissions shall not exceed 40% opacity;

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-233149  
Project: Bartow Plant Fossil  
Fuel Steam Generator  
Unit No. 1

Specific Condition No. 7. continued:

- B. During boiler cleaning (sootblowing) and load changes visible emissions shall not exceed 60% opacity, provided that the duration of such excess emissions shall not exceed a total of 3 hours in any 24 hour period except for up to four 6 minute periods of unlimited opacity, since the unit has a continuous opacity monitor, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.

[Rules 17-296.405(1)(a) and 17-210.700(3), F.A.C.).

8. Excess emissions resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized. Excess emissions resulting from malfunctions are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized, but in no case exceeds two hours in any 24-hour period unless specifically authorized by the Department for a longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operations, or any other equipment or process failure which may be reasonably be prevented during startup, shutdown or malfunction are prohibited. (See also Specific Condition No. 20)(Rules 17-210.700(1) and (2), F.A.C.).

#### Testing and Compliance Documentation Requirements

9. Test the emissions from this unit for the following pollutants every six months\* within 60 days prior to the base dates of March 16 and September 16. A report of the test data shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management within 45 days of the testing. The test report shall include a statement of the boiler O<sub>2</sub> levels during the test, the fuel firing rate (in gallons/hour and MMBtu/hr) and the results of the fuel oil analysis (See Specific Condition No. 12).

(X) Particulate matter	(steady state and sootblowing)
(X) Visible emissions	(steady state and sootblowing)
(X) Sulfur Oxides**	(steady state and sootblowing)

\*\*Fuel analysis and calculations for sulfur dioxide emissions may be submitted for the required sulfur dioxide stack test (Refer to Specific Condition No. 12.).

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-233149  
Project: Bartow Plant Fossil  
Fuel Steam Generator  
Unit No. 1

(\* Note: This source was authorized by Order of the Department Secretary dated December 7, 1982 (OGC File No. 82-0564) to test particulate matter emissions and visible emissions every six months with a 40% opacity limit. Failure of this source to meet either the particulate standard or the opacity standard in the future shall constitute grounds for revocation of this authorization and a return to more frequent testing.)  
[Rules 17-297.340 & 17-297.570, F.A.C. and OGC Order No. 87-1261].

10. The permittee shall notify the Air Quality Division of the Pinellas County Department of Environmental Management in writing at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.  
[Rule 17-297.340(1)(i), F.A.C.].

11. Compliance with the emission limitations of Specific Condition Nos. 5, 6 and 7 shall be determined using the following methods contained in Rule 17-297, F.A.C. or in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C.:

<u>Pollutant</u>	<u>Test Method</u>
Visible emissions	DER Method 9 and CEM*
Particulate Matter	EPA Method 5 or EPA Method 17 (only if stack temperature is less than 375 °F)
Sulfur dioxide (& %S)	Fuel analysis (EPA Method 19)

\* Continuous emission monitor for opacity

The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A.

12. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated during the particulate and VE compliance tests based on analysis of an as-fired fuel oil sample taken from this unit during the testing. Results of this analysis, and calculation of the resulting pound/MMBtu sulfur dioxide emission rate, shall be submitted with the test report.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-233149  
Project: Bartow Plant Fossil  
Fuel Steam Generator  
Unit No. 1

13. Documentation of ongoing compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated through fuel analysis on a monthly basis. The permittee shall take a daily as-fired fuel oil sample for each day of operation and, on a monthly basis, analyze the monthly composite fuel oil sample for sulfur content and heat content (See Specific Condition No. 15.). Based on the results of this monthly analysis, the permittee shall calculate the monthly average pound/MMBtu sulfur dioxide emission rate. The fuel analysis results and the monthly sulfur dioxide emission rate calculation shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained for at least a two year period. (See also Specific Condition No. 18 for quarterly reporting requirements.) [Rule 17-4.070(3), F.A.C.].

14. Approved compliance testing of emissions must be conducted while firing new No. 6 fuel oil operating within 90-100% of the permitted rates as stated in Specific Condition No. 15. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until other test, showing compliance at a higher rate, not to exceed the permitted rates as stated in Specific Condition No. 15, is submitted. Failure to submit the fuel oil firing rate or operating at conditions during the test which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance. [Rule 17-4.070(3), F.A.C.].

15. The following are the specified permitted process parameters for this Unit (Rule 17-296.700(6)(d), F.A.C.):

A. Process Parameters

- |                         |  |
|-------------------------|--|
| 1. Heat Input Rate:     | 1,220 MMBtu/hour (maximum)   |
| 2. Fuel:                | New No. 6 Fuel oil with a sulfur content of 2.5% (maximum)         |
| 3. Fuel Firing Rate:    | 7,854 gallons/hour (187 BBL/hour) of new No. 6 fuel oil (maximum), |
| 4. Ash content:         | as sampled   |
| 5. Steam Temperature:   | 1,000 °F   |
| 6. Steam Pressure:      | 1,850 psi  |
| 7. Steam Flow Rate:     | 900,000 pounds/hour  |
| 8. Stack Height:        | 300 feet   |
| 9. Boiler Manufacturer: | Babcock & Wilcox   |
| 10. Burner Arrangement: | Front fired  |

PERMITTEE:  
Florida Power Corporation

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Operation and Maintenance Plan

16. The General Electric Environmental Services, Inc., Model 1-BAB1.2x37(9)36.0-434-4.3P Electrostatic Precipitator shall be operated and maintained in accordance with the Operation and Maintenance (O&M) Plan, dated 10/04/93, attached to and made a part of this permit. The O&M Plan documentation logs shall be maintained for a minimum of two years and made available for inspection on request. At a minimum, the O&M Plan shall include:

- A. The operating parameters of the control device.
- B. A timetable for the routine maintenance of the pollution control device as specified by the manufacturer.
- C. A timetable of routine weekly, bi-weekly, or monthly observations of the pollution control device.
- D. A list of the type and quantity of the required spare parts which are stored on the premises for the pollution control device.
- E. A record log which shows at a minimum when maintenance was performed, what maintenance was performed, and by whom.

(Rule 17.296.700(6), F.A.C. and Pinellas County Ordinance No. 89-70, Subpart 2.230, as amended).

17. Based on the original permit application received by the Department and information submitted by the permittee with subsequent applications, the following are the maximum potential emission rates from this source based upon which this permit is issued:

Potential Emissions

Pollutant	pounds/hour	tons/year
Particulate (PM)	122.0	534.4
Sulfur dioxide (SO2)	3,355.0	14,694.9
Carbon Monoxide (CO)	39.3	172.0
Nitrogen Oxides (NOx)	<del>329.9</del>	<del>1,444.8</del>
Volatile Organics (VOC)	6.0	26.3

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11/2/94

Reporting Requirements

18. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be documented by the permittee through submittal of quarterly reports of the Bartow Plant monthly average fuel oil sulfur

PERMITTEE:  
Florida Power Corporation

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Specific Condition No. 18 continued:

content, heat content, and the resulting sulfur dioxide emission rate in pounds/MMBtu of heat input. These quarterly reports shall be submitted within 30 days of the end of each calendar quarter to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management.  
[Rule 17-4.070(3), F.A.C.].

19. Submit to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management each calendar year on or before March 1, completed DER Form 17-210.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2)(a)1., F.A.C.). Until further notice by the Department the permittee shall calculate PM emissions by multiplying the PM stack test results by the hours of operation. Other annual emissions shall be determined by multiplying the annual fuel use times the following emission factors:

Pollutant	No. 6 Oil (lb/1000 gal)
SO2	157(S)
CO	5
NOx	42
VOC	0.76

67

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(Provide calculation sheets to document calculation method)

20. Excess emission notification. In the event that the permittee is unable to comply with any of the conditions of the permit, the permittee shall immediately notify the Air Quality Division of the Pinellas County Department of Environmental Management. Notification shall be conducted in accordance with General Condition No. 8 of this permit. (See attached General Conditions.) In the case of excess emissions resulting from malfunctions, a full written report on the malfunction shall be submitted in a quarterly report if so requested by the Department. [Rule 17-210.700(6), F.A.C.].

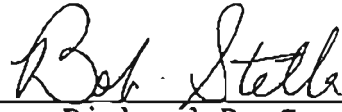
PERMITTEE:  
Florida Power Corporation

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Permit Renewal

21. Three applications to renew this operating permit shall be submitted to the Southwest District Office of the Department, with an additional copy sent to the Air Quality Division of the Pinellas County Department of Environmental Management, at least 60 days prior to the expiration date of this permit ([Rule 17-4.090(1), F.A.C. and Pinellas County Ordinance 89-70, as amended, Subpart 2.210).

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Dr. Richard D. Garrity, Ph.D.  
Director of District Management  
Southwest District

3804 Coconut Palm Drive  
Tampa, FL 33619-8318  
(813)744-6100

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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



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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>No. 1 Unit, Fossil Fuel Steam Generator</b>		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown <b>001</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? [ <b>X</b> ] Yes [ ] No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>Unit is front-fired.</b>		

Emissions Unit Control Equipment Information

A.

1. Description (limit to 200 characters):

**Electrostatic precipitator**

2. Control Device or Method Code:

B.

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C.

1. Description (limit to 200 characters):

2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:	<b>30 Sep 1958</b>
2. Long-term Reserve Shutdown Date:	
3. Package Unit: Manufacturer: <b>NA</b>	Model Number: <b>NA</b>
4. Generator Nameplate Rating:	<b>120 MW</b>
5. Incinerator Information:	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	<b>1,220</b>	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):	<b>1. Maximum heat input based on permit firing No.6 fuel oil.</b>	

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	<b>24</b> hours/day	<b>7</b> days/week
	<b>52</b> weeks/yr	<b>8,760</b> hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU1-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: EU1	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>Boiler gases exhaust through a single stack</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>300</b> feet
7. Exit Diameter:	<b>9</b> feet
8. Exit Temperature:	<b>312</b> °F

9. Actual Volumetric Flow Rate:	454,800 acfm	
10. Percent Water Vapor:	%	
11. Maximum Dry Standard Flow Rate:	dscfm	
12. Nonstack Emission Point Height:	feet	
13. Emission Point UTM Coordinates:		
Zone: 17	East (km): 342.9	North (km): 3082.6
14. Emission Point Comment (limit to 200 characters):		

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>No. 6 Fuel Oil</b>	
2. Source Classification Code (SCC):  <b>1-01-004-01</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>8.026</b>	5. Maximum Annual Rate:  <b>70,311</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>2.5</b>	8. Maximum Percent Ash:  <b>0.1</b>
9. Million Btu per SCC Unit:  <b>152</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content-HHV.</b>	



**Segment Description and Rate:** Segment 2 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Distillate fuel oil</b>	
2. Source Classification Code (SCC): <b>1-01-005-01</b>	
3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>8.841</b>	5. Maximum Annual Rate: <b>77,443</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: <b>0.5</b>	8. Maximum Percent Ash: <b>0.1</b>
9. Million Btu per SCC Unit: <b>138</b>	
10. Segment Comment (limit to 200 characters): <b>Used as a pilot fuel for startup, shutdown, and malfunction. Heat content-HHV.</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 3 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>On-specification used oil</b>	
2. Source Classification Code (SCC):  <b>1-01-013-02</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>8.841</b>	5. Maximum Annual Rate:  <b>7,743</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>2.5</b>	8. Maximum Percent Ash:  <b>0.9</b>
9. Million Btu per SCC Unit:  <b>138</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content - HHV. Limited to 10% annual heat input.</b>	

**Segment Description and Rate:** Segment   of

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO <sub>2</sub>	010		EL
PM			EL
PM <sub>10</sub>			NS
NO <sub>x</sub>			NS
CO			NS
VOC			NS
H <sub>133</sub>			NS
HAPS			NS

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

1. Pollutant Emitted: <b>SO2</b>	
2. Total Percent Efficiency of Control:	<b>0 %</b>
3. Potential Emissions:	<b>3,355 lb/hour                      14,695 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor: <b>2.75 lb/MMBtu</b>  Reference: <b>FDEP Rule 62-296.405</b>	
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limits maximum sulfur content in No. 6 fuel oil to 2.5%.</b>	

Emissions Unit Information Section 1 of 8  
**Allowable Emissions (Pollutant identified on front page)**

**A.**

1. Basis for Allowable Emissions Code: <b>RULE</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>2.75 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>3,355 lb/hour</b>	<b>14,695 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during compliance test for PM and VE</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Firing No. 6 fuel oil 2. Rule 62-296.405(1)</b>		

**B.**

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>PM</b>	
2. Total Percent Efficiency of Control:	<b>99 %</b>
3. Potential Emissions:	<b>366 lb/hour                      668 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor:	<b>0.3 lb/MMBtu</b>  Reference: <b>FDEP Rule 62-210.700</b>
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See Attachment BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Potential lb/hr - soot-blowing while oil firing Potential TPY - 0.125 lb/MMBtu over 24 hr (0.1 during steady state operations, 21 hr; 0.3 during soot blowing, 3 hr)</b>	

Emissions Unit Information Section 1 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.1 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>122 lb/hour</b>	<b>534.4 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Based on oil-firing during steady state operations 2. Rule 62-210.700</b>		

B.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.3 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>336 lb/hour</b>	<b>200.4 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Based on boiler cleaning (soot-blowing) and load changes while oil firing (3 hours in 24 hours) 2. Rule 62-210.700</b>		



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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 4

1.	Visible Emissions Subtype: <b>VE40</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>40</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>Semi-annual compliance test EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. Visible emission limit at steady state 2. Rule 62-296.405(1) and OGC File No. 82-0564.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 2 of 4

1.	Visible Emissions Subtype: <b>VE60</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>60</b> %      Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>24</b> min/hour
4.	Method of Compliance: <b>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 3 hr in any 24-hr per., except, during the 3 hr, up to four 6-minute per. of unlimited capacity for boiler cleaning and load changing. Rule 62-210.700(3)</b>

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

**Visible Emissions Limitations:** Visible Emissions Limitation 3 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 2 hr in any 24-hr period for malfunctions. Rule 62-210.700(1).</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 4 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Excess emissions during startup, shutdown. Rule 62-210.700(2).</b>

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

**Continuous Monitoring System** Continuous Monitor 1 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>NOX</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>42</b> Serial Number: <b>42-45341-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 2 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>CO2</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>41 H</b> Serial Number: <b>41H-44968-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 3 of 5

1. Parameter Code: <b>VE</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>Durag</b> Model Number: <b>CEMOP-281</b> Serial Number: <b>29858</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 4 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>SO2</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>43 B</b> Serial Number: <b>43B-45039-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 5 of 5

1. Parameter Code: <b>FLOW</b>	2. Pollutant(s):
3. CMS Requirement: [ <input checked="" type="checkbox"/> ] Rule [ <input type="checkbox"/> ] Other	
4. Monitor Information: Monitor Manufacturer: <b>United Sciences</b> Model Number: <b>Ultra Flow 100</b> Serial Number: <b>9303505</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters):  <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ <input type="checkbox"/> ] Rule [ <input type="checkbox"/> ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:    Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	lb/hour		tons/year
	NO <sub>2</sub>			tons/year
5.	PSD Comment (limit to 200 characters):			
	<b>Baseline emissions not known.</b>			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L3</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>18 Oct 1995</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L6</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L7</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable



**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation
<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L10</u> <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading)
<input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements
<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan
<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L13</u> <input type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required)
<input checked="" type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: <u>BA-EU1-L14</u>
<input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____
<input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____
<input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____
<input type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU1-D**  
**APPLICABLE REQUIREMENTS LISTING**

## ATTACHMENT BA-EU1-D

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: Unit 1 - FPC Bartow

#### FDEP Rules:

##### Air Pollution Control-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

##### Stationary Sources-General:

- 62-210.700(1) - Malfunction only for FFGS
- 62-210.700(2) - FFSG; startup/shut down
- 62-210.700(3) - FFSG; sootblowing/load change
- 62-210.700(4) - Maintenance
- 62-210.700(6)

##### Acid Rain:

- 62-214.300 - Acid Rain Units (Applicability)
- 62-214.320 - Acid Rain Units (Application Shield)
- 62-214.330 - Compliance Options (if 62-214.430)
- 62-214.350(2),(3),(6) - Acid Rain Units (Certification)
- 62-214.370 - Revisions; corrections; (potentially applicable)
- 62-214.430 - Acid Rain Units (Compliance Options)

##### Stationary Sources-Emission Standards:

- 62-296.405(1)(a) - FFSG; VE
- 62-296.405(1)(b) - FFSG; PM
- 62-296.405(1)(c)1.j. - FFSG; Oil-SO<sub>2</sub> (general limit)
- 62-296.405(1)(e) - FFSG; Test Methods
- 62-296.405(1)(f)1.a.(i) - FFSG; Opacity CEMS exempted for oil/gas units
- 62-296.405(1)(f)1.b. - FFSG; SO<sub>2</sub> CEMS exempted for non-controlled units (oil/gas)
- 62-296.700(2)(a) - RACT; Emission Limitations PM
- 62-296.700(2)(b) - RACT; Visible Emissions
- 62-296.700(3) - Test Methods
- 62-296.700(5) - RACT; Circumvention

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

- 62-297.310(1) - Test Runs-Mass Emission
- 62-297.310(2)(b) - Operating Rate; other than CTs
- 62-297.310(3) - Calculation of Emission

- 62-297.310(4)(a) - Applicable Test Procedures; Sampling time
- 62-297.310(4)(b) - Sample Volume
- 62-297.310(4)(c) - Required Flow Rate Range-PM/H<sub>2</sub>SO<sub>4</sub>/F
- 62-297.310(4)(d) - Calibration
- 62-297.310(4)(e) - EPA Method 5-only
- 62-297.310(5) - Determination of Process Variables
- 62-297.310(6)(a) - Permanent Test Facilities-general
- 62-297.310(6)(c) - Sampling Ports
- 62-297.310(6)(d) - Work Platforms
- 62-297.310(6)(e) - Access
- 62-297.310(6)(f) - Electrical Power
- 62-297.310(6)(g) - Equipment Support
- 62-297.310(7)(a)2. - FFSG excess emissions
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4. - PM exemption if < 400 hrs/yr
- 62-297.310(7)(a)5. - PM exemption if < 200 hrs/6 month
- 62-297.310(7)(a)6. - FDEP Notification - 15 days
- 62-297.310(7)(a)9. - Waiver of Compliance Tests (fuel sampling)
- 62-297.310(7)(c) - Test Reports
- 62-297.310(8)

#### Federal Rules:

##### Acid Rain-Permits:

- 40 CFR 72.9(a) - Permit Requirements
- 40 CFR 72.9(b) - Monitoring Requirements
- 40 CFR 72.9(c)(1) - SO<sub>2</sub> Allowances-hold allowances
- 40 CFR 72.9(c)(2) - SO<sub>2</sub> Allowances-violation
- 40 CFR 72.9(c)(1)(iii) - SO<sub>2</sub> Allowances-Phase II Units (listed)
- 40 CFR 72.9(c)(4) - SO<sub>2</sub> Allowances-allowances held in ATS
- 40 CFR 72.9(c)(5) - SO<sub>2</sub> Allowances-no deduction for 72.9(c)(1)(i)
- 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 72.30(a) - Requirements to Apply (operate)
- 40 CFR 72.30(c) - Requirements to Apply (reapply before expiration)
- 40 CFR 72.30(d) - Requirements to Apply (submittal requirements)
- 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

#### Monitoring Part 75:

- 40 CFR 75.5 - Prohibitions
- 40 CFR 75.10(a)(1) - Primary Measurement; SO<sub>2</sub>; except 75.11&.16; Subpart D
- 40 CFR 75.10(a)(2) - Primary Measurement; NO<sub>x</sub>; except 75.12&.17; Subpart E
- 40 CFR 75.10(a)(3)(i) - Primary Measurement; CO<sub>2</sub>; monitor
- 40 CFR 75.10(a)(4) - Primary Measurement; Opacity; except 75.14&.18
- 40 CFR 75.10(b) - Primary Measurement; Performance Requirements
- 40 CFR 75.10(c) - Primary Measurement; Heat Input; Appendix F
- 40 CFR 75.10(d) - Primary Measurement; Hourly Operating ; Opacity; SO<sub>2</sub>
- 40 CFR 75.10(f) - Primary Measurement; Minimum Measurement
- 40 CFR 75.10(g) - Primary Measurement; Minimum Recording
- 40 CFR 75.11(d) - SO<sub>2</sub> Monitoring; Gas- and Oil-fired units
- 40 CFR 75.11(e) - SO<sub>2</sub> Monitoring; Gaseous fuel firing
- 40 CFR 75.12(b) - NO<sub>x</sub> Monitoring; Determination of NO<sub>x</sub> emission rate; Appendix F
- 40 CFR 75.13(a) - CO<sub>2</sub> Monitoring; Continuous monitor
- 40 CFR 75.14(a) - Opacity Monitoring; Coal and oil units
- 40 CFR 75.20(a)(5) - Initial Certification Approval Process; Loss of Certification
- 40 CFR 75.20(b) - Recertification Procedures
- 40 CFR 75.20(c) - Certification Procedures
- 40 CFR 75.20(g) - Exceptions to CEMS; oil/gas/diesel; Addendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS;
- 40 CFR 75.21(b) - QA/QC; Opacity;
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 40 CFR 75.21(d) - QA/QC; Notification of RATA
- 40 CFR 75.21(e) - QA/QC; Audits
- 40 CFR 75.21(f) - QA/QC; CEMS
- 40 CFR 75.22 - Reference Methods
- 40 CFR 75.24 - Out-of-Control Periods; CEMS
- 40 CFR 75.30(a)(1) - General Missing Data Procedures; SO<sub>2</sub>
- 40 CFR 75.30(a)(2) - General Missing Data Procedures; flow
- 40 CFR 75.30(a)(3) - General Missing Data Procedures; NO<sub>x</sub>
- 40 CFR 75.30(a)(4) - General Missing Data Procedures; CO<sub>2</sub>

- 40 CFR 75.30(d) - General Missing Data Procedures; SO<sub>2</sub>
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.35 - Missing Data Procedures for CO<sub>2</sub>
- 40 CFR 75.36 - Missing Data Procedures for Heat Input
- 40 CFR 75.53 - Monitoring Plan (revisions)
- 40 CFR 75.54(a) - Recordkeeping-general
- 40 CFR 75.54(b) - Recordkeeping-operating parameter
- 40 CFR 75.54(c) - Recordkeeping-SO<sub>2</sub>
- 40 CFR 75.54(d) - Recordkeeping-NO<sub>x</sub>
- 40 CFR 75.54(e) - Recordkeeping-CO<sub>2</sub>
- 40 CFR 75.54(f) - Recordkeeping-Opacity
- 40 CFR 75.55(c);(e) - Recordkeeping; Special Situations (gas & oil firing)
- 40 CFR 75.56 - Certification; QA/QC Provisions
- 40 CFR 75.60 - Reporting Requirements-General
- 40 CFR 75.61 - Reporting Requirements-Notification cert/recertification
- 40 CFR 75.63 - Reporting Requirements-Certification/Recertification
- 40 CFR 75.64(a) - Reporting Requirements-Quarterly reports; submission
- 40 CFR 75.64(b) - Reporting Requirements-Quarterly reports; DR statement
- 40 CFR 75.64(c) - Rep. Req.; Quarterly reports; Compliance Certification
- 40 CFR 75.64(d) - Rep. Req.; Quarterly reports; Electronic format
- 40 CFR 75.65 - Opacity Reports
- Appendix A-3. - Performance Specifications
- Appendix A-4. - Data Handling and Acquisition Systems
- Appendix A-5. - Calibration Gases
- Appendix A-6. - Certification Tests and Procedures
- Appendix B - QA/QC Procedures
- Appendix C-1. - Missing Data; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
- Appendix C-2. - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
- Appendix F - Conversion Procedures
- Appendix G-2. - Determination of CO<sub>2</sub>; from combustion sources
- Appendix H - Traceability Protocol
- 40 CFR Part 77.3 - Offset Plans (future)
- 40 CFR Part 77.5(b) - Deductions of Allowances (future)
- 40 CFR Part 77.6 - Excess Emissions Penalties SO<sub>2</sub> and NO<sub>x</sub>

**ATTACHMENT BA-EU1-H8**  
**CALCULATION OF EMISSIONS**

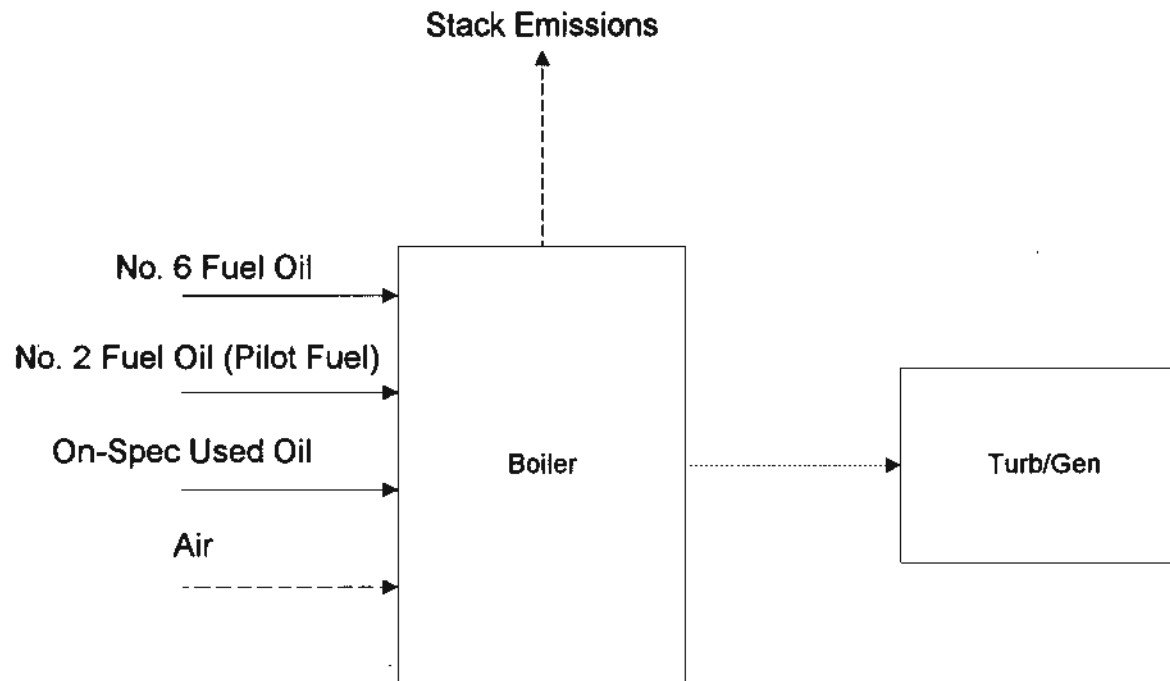
## Attachment BA-EU1-H8. Maximum Estimated Emissions for Emissions Limited Pollutants, FPC Bartow Plant, Steam Generator Unit No. 1, 2, and 3

Pollutant	Unit 1	Unit 2	Unit 3
	No. 6 Oil	No. 6 Oil	No. 6 Oil
Hours of Operation	8,760	8,760	8,760
Sulfur Dioxide (lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)			
Basis	DEP Rules	DEP Rules	DEP Rules
EF (lb/MMBtu)	2.75	2.75	2.75
HIR (MMBtu/hr)	1220	1317	2211
Emission rate (lb/hr)	3,355	3,622	6,080
(TPY)	14,695	15,863	26,631
Particulate Matter (lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)			
Basis (1)	DEP Rules	DEP Rules	DEP Rules
EF (lb/MMBtu) (steady-state)	0.1	0.1	0.1
(sootblowing)	0.3	0.3	0.3
(steady-state/sootblowing; 24-hour)	0.125	0.125	0.125
HIR (MMBtu/hr)	1,220	1,317	2,211
Emission rate (lb/hr) (steady-state)	122	131.7	221
(TPY)	534.4	576.8	968.4
Emission rate (lb/hr) (sootblowing)	366	395	663
(TPY)	200.4	216.3	363.2
Emission rate (lb/hr) (steady-state/sootblowing; 24 hours)	366.0	395.1	663.3
(TPY)	668.0	721.1	1210.5

Notes: (1) FDEP Rule 62-296.405(1) and 62-296.800; 0.3 and 0.1 lb/MMBtu for soot-blowing (3 hours) and normal operations, respectively;



**ATTACHMENT BA-EU1-L1**  
**PROCESS FLOW DIAGRAM**



Florida Power Corporation  
 Bartow Plant  
 Process Flow Diagram

**Process Flow Legend**  
 Solid/Liquid ———→  
 Gas - - - - -→  
 Steam ·····→

Emission Unit: Boiler No. 1  
 Filename: fpcba1.vsd  
 Date: June 4, 1996



**KBN**

Engineering and Applied  
 Sciences, Inc.

**ATTACHMENT BA-EU1-L2**  
**FUEL ANALYSIS OR SPECIFICATION**

## ATTACHMENT BA-EU1-L2

### FUEL ANALYSIS

#### No. 6 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>
API gravity @ 60 F	8 <sup>1</sup>
Relative density	8.2 lb/gal <sup>2</sup>
Heat content	18,300 Btu / lb (HHV)
% sulfur	2.5 <sup>3</sup>
% nitrogen	0.25 - 0.50
% ash	0.06 - 0.10

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

ATTACHMENT BA-EU1-L2

FUEL ANALYSIS

No. 2 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	30 <sup>1</sup>	-
Relative density	7.1 lb/gal <sup>2</sup>	
Heat content	19,500 Btu / lb (HHV)	
% sulfur	0.04 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.1 <sup>1</sup>

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

## ATTACHMENT BA-EU1-L2

### FUEL ANALYSIS

#### On-Spec Used Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	28 <sup>1</sup>	-
Relative density	7.4lb/gal <sup>2</sup>	
Heat content	18,700 Btu / lb (HHV)	
% sulfur	0.3 - 0.5 <sup>2</sup>	2.5 <sup>3</sup>
% nitrogen	0.3	
% ash	0.4 - 0.9	

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**ATTACHMENT BA-EU1-L3**

**DETAILED DESCRIPTION OF CONTROL EQUIPMENT**

**[See Attachment BA-EU1-L12, Air Operating Permit No. AO52-233149,  
Specific Condition No. 16]**

**ATTACHMENT BA-EU1-L4**

**DESCRIPTION OF STACK SAMPLING FACILITIES**

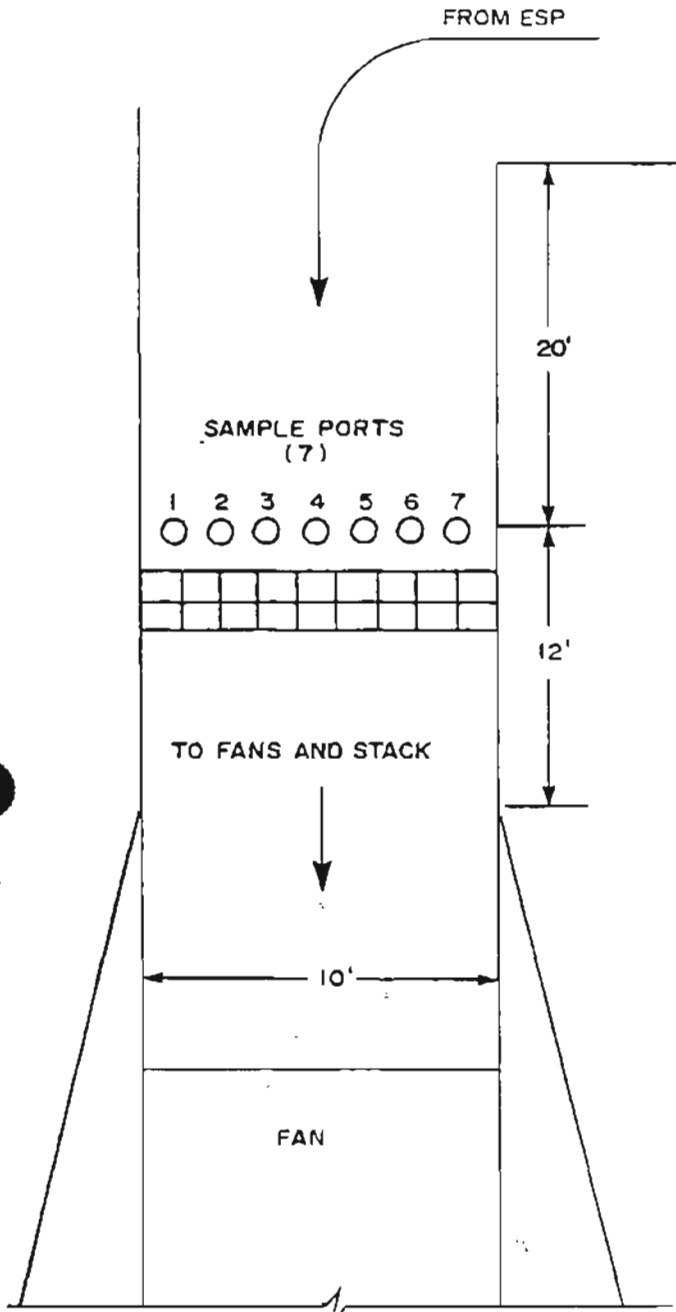


## ATTACHMENT BA-EU1-L4

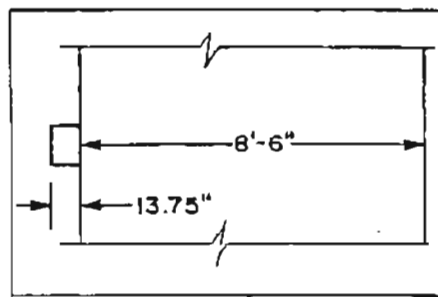
### Description of Stack Sampling Facilities

The Bartow Plant Steam Generator Unit No. 1 is required by Permit AO52-233149 to perform annual stack testing in accordance with standard EPA reference methods. Pursuant to FAC 62-297.345, the annual stack test required is performed with the required stack sampling facilities. The unit is currently not operating since it has been placed on long-term reserve shutdown. As specified by rule, the permanent test facilities must meet the following specifications before the next stack test:

- The sampling ports have a minimum effective diameter of 3 inches.
- The location of the sampling ports meet FAC 297-345 (3)(a)(3) requirements (i.e., 2 stack diameters downstream and 0.5 stack diameters upstream of flow disturbances).
- At least two sampling ports, 90 degrees apart have been installed on the circular stack.
- The working platform is at least 24 square feet in area, at least three feet wide, extends 180 degrees around the stack, has safety rails, toeboards, and a hinged floor opening attached to it. There are no obstructions 14 inches below the port and 6 inches on either side of the port.
- The platform access ladder is equipped with a safety cage.



(SOUTH DUCT IS MIRROR IMAGE)



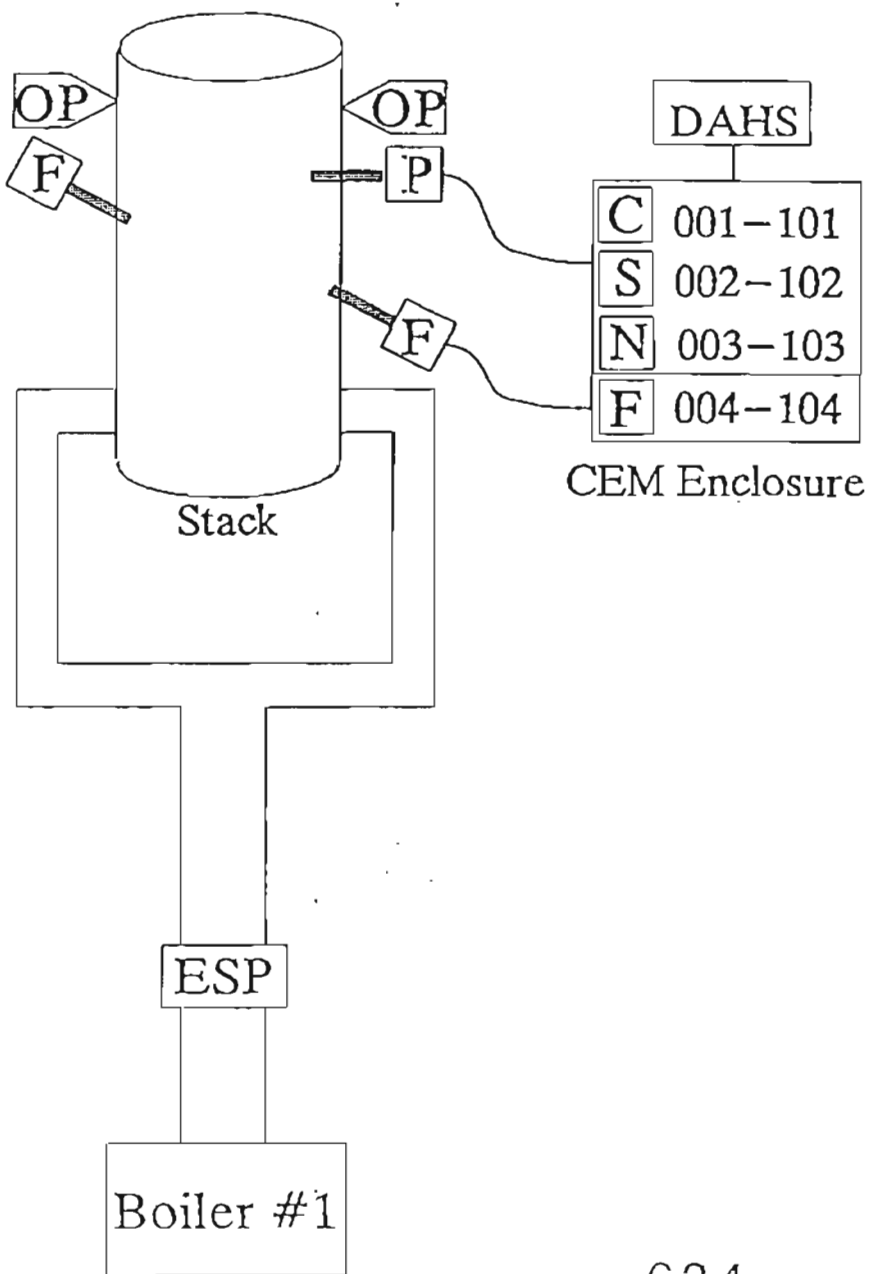
TRAVERSE POINT NUMBER	INCHES INSIDE STACK WALL
1	10.2
2	30.6
3	51.0
4	71.4
5	91.8

FIGURE 1  
 FLORIDA POWER CORPORATION  
 BARTOW PLANT  
 UNIT NO. 1 NORTH OUTLET DUCT

AIR CONSULTING  
 and ENGINEERING

# BARTOW Unit No. 1

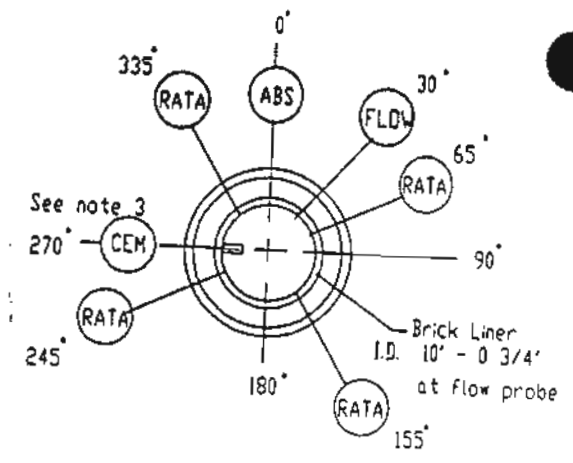
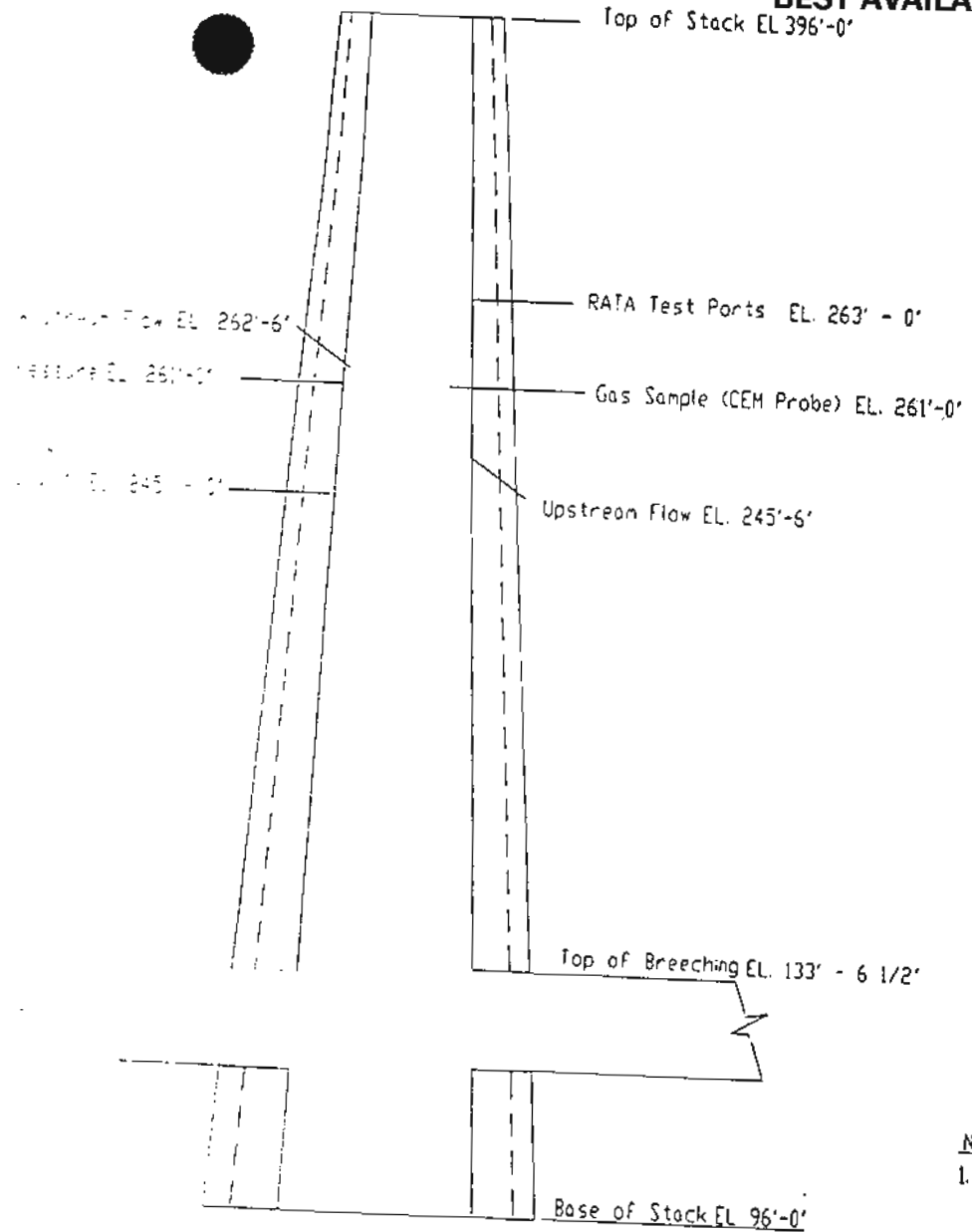
Florida Power Corp., St. Petersburg, Fl  
EPA Monitoring Plan Location Information (Part 2)



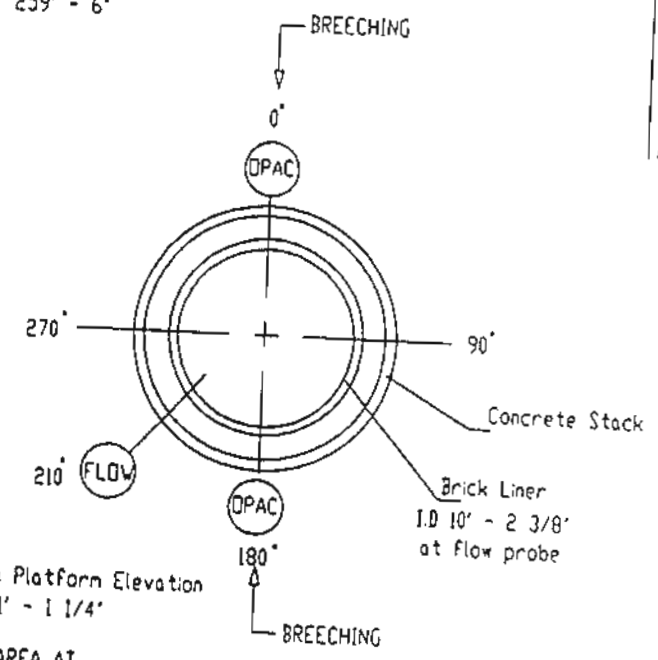
ORIS code : 634

NADB Boiler ID : \*\*\*1

**BEST AVAILABLE COPY**



Downstream Platform Elevation  
259' - 6"



Upstream Platform Elevation  
241' - 1 1/4"

- NOTES
1. STACK LINER CROSS SEC. AREA AT FLOW PROBE ELEVATION IS 80.7 SQFT.
  2. TOP OF STACK LINER CROSS SEC. AREA IS 63.6 SQFT.
  3. CEM MEASUREMENT POINT IS > 1.0 METER FROM THE LINER WALL.
  4. ABS = ATMOSPHERIC PRESSURE PORT

FLORIDA POWER CORPORATION
BARTOW STATION UNIT NO. 1
ORIS NO. 634
NADB NO. **1

ATTACHMENT NO. 2

**ATTACHMENT BA-EU1-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**

**ATTACHMENT BA-EU1-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**  
**MINIMIZING EXCESS EMISSIONS**

Startup of the fossil-fuel boilers begins when fuel (No. 2 or No. 6 fuel oil) is introduced into one or more burners within the boiler and lighted (commencement of combustion). Startup is complete and steady-state operation begins when the combustion process has stabilized and the megawatt load on the unit is stable and above 10 percent load.

Shutdown of the fossil-fuel boilers begins when unit megawatt load is decreased to below 10 percent of maximum and continues until the final burner gun is removed from service.

Emissions may be detected during all modes of boiler operation by various continuous emissions monitors. Continuous monitors are currently in place for NO<sub>x</sub>, CO<sub>2</sub>, and opacity. Audible and visual alarms are activated whenever the permitted value for opacity is approached.

Countermeasures which may be taken in the event of excess emissions include, but are not limited to:

- burner elevation loading
- proper excess air adjustments
- recognizing and removal of faulty burners
- fuel oil temperature adjustments
- proper and timely operation of boiler cleaning devices
- removal of the unit from system-dispatch mode (load control)
- reduction of unit megawatt load
- stopping and restarting of boiler cleaning devices
- lowering load ramp rate
- pressure rate changes
- placing boiler controls on manual
- adjusting burner dampers to increase windbox/furnace air pressure

Knowledge of the appropriate countermeasures to take when excess emissions occur is a part of the routine operator training for those who operate the boilers. Topics include current permit

limits, maximum allowable duration of excess emissions, appropriate countermeasures for excess emissions, duty to notify, and fuels and combustion training.

**ATTACHMENT BA-EU1-L7**  
**OPERATION AND MAINTENANCE PLAN**

**[See Attachment BA-EU1-L12, Air Operating Permit No. AO52-233149,  
Specific Condition No. 16]**



**ATTACHMENT BA-EU1-L10**  
**ALTERNATIVE METHODS OF OPERATION**

**ATTACHMENT BA-EU1-L10**

**ALTERNATIVE METHODS OF OPERATION**

The Steam Generator Unit No. 1 is fired with new No. 6 fuel oil having a maximum sulfur content not to exceed 2.5% by weight and on-spec used oil. This unit also uses No. 2 fuel oil as an ignitor fuel during startup.

**ATTACHMENT BA-EU1-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

## ATTACHMENT BA-EU1-L12

### ADDITIONAL APPLICABLE REQUIREMENTS

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).

As defined in Rule 62-210.200(29), the conditions of a preconstruction permit are applicable requirements under FDEP's Title V program. Unit 1 was issued construction permit AC52-36102 for the purpose of firing a combination of oil and coal fuel. A copy of this permit has been included in this attachment. The combination of oil and coal is no longer a fuel option for Unit 1 and a Segment (Section F of the Title V application form) has not been completed for this method of operation. The conditions related to the electrostatic precipitator in the air construction permit are, therefore, no longer applicable to this unit, since the operation of the ESP specifically applied to the firing of the coal and oil combination. In addition, any conditions in the operating permit related to the ESP are not applicable requirements and should also not be included in the Title V permit.

**BARTOW PLANT UNIT #1 PRECIPITATOR  
OPERATION AND MAINTENANCE PLAN  
PERMIT NUMBER AO52-233149**

**DESCRIPTION**

This cold-side precipitator is a two-chambered Buell unit built in 1982. The unit was designed to treat a gas volume of 488,000 acfm at 300° F under negative pressure. There are three mechanical and five electrical fields in the direction of gas flow. This results in six distinct collecting cells. There are 37 gas passes per chamber, formed by 36' high collecting plates spaced 9" apart. Plates in the first (inlet) and third (outlet) mechanical fields of each chamber are 12' wide, while those in the second (center) field are 9' wide. The discharge electrodes are A-227 smooth weighted wires, 0.105" in diameter, tensioned by 36 pound weights.

Electrical power is supplied through five dual-bushing transformer/ rectifier sets, each of which is controlled by a General Electric AVCON 2000 voltage controller, rated at 480 V, 240 A primary and 45 kV, 1800 mA secondary.

Cleaning of the precipitator internals is accomplished by a total of 154 Buell 240 VDC electromagnetic/gravity rappers controlled by a General Electric Micro-Tapper controller. Collected ash is shed into 12 hoppers which are equipped with Texas Nuclear level detectors and Chromalox heaters.

**EQUIPMENT SPECIFICATIONS**

Manufacturer - General Electric Environmental Services, Inc.

Precipitator: Model 1-BAB1.2x37(9)36.0-434-4.3P

Number of Electrical Fields	5
Number of Bus Sections	20
Number of Gas Passes	74
Plate Height	36'
Emitting Electrodes	straight weighted wire
Automatic voltage controller	AVCON 2000
Electrode Cleaning Methods:	
Emitting System	electromagnetic rappers
Collecting System	electromagnetic rappers
Electrode Cleaning Controller	MICRO-TAPPER

**DESIGN PARAMETERS**

Fuel Type	Coal-Oil mixture (now operated on No. 6 fuel oil)
Flue Gas Volume	488,000 acfm
Gas Velocity	4.07 fps
Normal Flue Gas Exit Temperature	300 °F
Fly Ash Removal Efficiency for coal-oil mixture	98%

## PROCESS PARAMETERS

Plant operators monitor and adjust the following Bartow Plant Unit 1 parameters at least once per day to assure efficient plant operations:

- Pressures (furnace, superheat, and reheat);
- Temperatures (superheat, reheat, and fuel);
- Flows (steam, feedwater, and fuel); and
- Unit load.

Where specified, these parameters are not to exceed those limits established by the Bartow Plant Unit 1 air permit.

## OPERATIONAL CHECKS

The following parameters are checked and recorded each day:

- Transformer/rectifier primary voltage (110 to 300 V)
- Transformer/rectifier primary current (20 to 80 A AC)
- Transformer/rectifier secondary current (0.07 to 0.54 A DC)
- Transformer/rectifier spark rates (0 to 30 sparks/min.)

Other parameters, listed below, are checked each 8 hour shift or daily but not recorded. These parameters are alarmed locally (in the precipitator control room) and there is continuous monitoring by an alarm to the main control room ('Precipitator Trouble' alarm).

Precipitator Control Room:

Check for Alarms:

- Transformer/rectifier low voltage
- Transformer/rectifier overcurrent
- Transformer/rectifier high oil temperature
- Control cubicle fan failure
- Insulator heater system failure
- Rapper control cabinet loss of power
- Purge system air flow failure
- Purge system fan failure
- Control room high temperature
- Hopper heater low temperature
- Hopper ash level high

Other Checks:

- Check for rapper faults on MICRO-TAPPER control cabinet.
- Check that transformer control cubical fans are in operation.

- Check for transformer/rectifier trips on local switch cabinet.
- Check digital control computer screens for abnormal conditions daily.
- Check for leaks through doors, manholes, etc. on the 2nd, 4th, and 8th floors at least monthly.

## **MAINTENANCE PLAN**

The majority of precipitator maintenance is done during planned unit outages. Planned outages occur every 18 months. Unplanned unit outages occur due to some type of failure or operational problem with either the precipitator or the steam unit. Unplanned unit outages required due to steam unit performance are also used as an opportunity to perform any precipitator maintenance needed. Whether an unplanned outage is necessitated by precipitator performance will depend on the type and significance of precipitator equipment failure. Such a decision depends on the engineering judgment of responsible FPC personnel.

Outage related maintenance work includes the following as a minimum:

- Complete or partial precipitator cleaning and inspection, depending on time lapse since last complete inspection.
- Inspection and repair as needed of transformer rectifiers.
- Inspection and repair as needed of hoppers and hopper heaters.
- Replacement of broken wires found during inspection.
- Cleaning of support and rapping insulators.
- Replace gaskets on doors and manholes as needed.
- Weld repair of plates as needed to repair areas of corrosion.

Inspection and testing of the nuclear level detectors on ash hoppers is done periodically during the year (presently every 2 months but may vary depending on conditions found and maintenance history).

Maintenance activities are documented on several forms. Attached are samples of a Trouble Report form and the computerized maintenance planned or completed report format from the Productivity Measurement System.

## **SPARE PARTS**

The following is a list of major items stocked. There are many other small parts not listed such as clips, fuses, lighting fixtures, etc. Quantities and spare parts carried vary with time of year, determination of need as equipment ages and economic reorder quantities (ie: pricing in quantities).

PART	QUANTITY
Board for I/O module .....	1
Board for output module .....	5
Board for AVCON 2000 .....	2
CPU circuit board .....	2
Communication board .....	1
Rapper bridge rectifier .....	24
Rapper interface board .....	1
Rapper control board .....	1
Hopper heater .....	29
Insulator shaft .....	8
Insulator support .....	7
Power Supply .....	1
Impact Rapper Assembly .....	2
Emitting Wires .....	10
Weights .....	10
Weight Hooks .....	100





# BEST AVAILABLE COPY TROUBLE REPORT/WORK REQUEST

(Use Ball Point Pen - Press Firmly)

PM FREQUENCY			
<input type="checkbox"/> Day	<input type="checkbox"/> Wk	<input type="checkbox"/> BI-Wk	<input type="checkbox"/> Mth
<input type="checkbox"/> Qtr	<input type="checkbox"/> 6 Mth	<input type="checkbox"/> Ann	

PLANT	MAINTENANCE TAG NO.	<input type="checkbox"/> C.M. <input type="checkbox"/> P.M.	RESPONSIBLE SHOP	PRIORITY	TR NUMBER
UNIT	DATE AVAILABLE	<input type="checkbox"/> Incident Report <input type="checkbox"/> Load Reduction To ___ MW	<input type="checkbox"/> ELEC. <input type="checkbox"/> MECH. <input type="checkbox"/> I & C <input type="checkbox"/> LABOR <input type="checkbox"/>	<input type="checkbox"/> Emergency <input type="checkbox"/> Today <input type="checkbox"/> Urgent <input type="checkbox"/> Scheduled <input type="checkbox"/> Outage <input type="checkbox"/> Project	Subpriority Code _____
	DATE REQUIRED				Sequence No _____

EQUIPMENT NAME	LOCATION (ELEV./FLOOR)	EQUIPMENT I.D. NUMBER
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SPECIFIC DEFECT/SYMPTOMS

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LOCATION OF DEFECT

WHEN 1ST OCCURRED

WHEN IN CYCLE, LOAD, ETC.

TRENDING

ANALYZE FOR CAUSE: DISTINCTIONS, CHANGES, POSSIBLE CAUSES

CLEARANCE TAGS REQUIRED	
<input type="checkbox"/> YES	<input type="checkbox"/> NO

INITIATOR	DATE	TIME	AUTHORIZED SIGNATURE
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JOB STATUS	<input type="checkbox"/> 1. In Progress	<input type="checkbox"/> 4. Awaiting Engineering	<input type="checkbox"/> 7. Awaiting Material	CLASS OF WORK CODE	ADMIN CODE
	<input type="checkbox"/> 2. Ready to Schedule	<input type="checkbox"/> 5. Awaiting Manpower	<input type="checkbox"/> 8. Complete		
	<input type="checkbox"/> 3. Awaiting Planning	<input type="checkbox"/> 6. Awaiting Equipment	<input type="checkbox"/> 9. Cancelled		

BENCHMARK	SHOP	CLASSIFICATION	NO. MEN	SCHED. HOURS	MAN HOURS	COST	DESCRIPTION OF WORK SCHEDULED

SUMMARY	ACCOUNT NUMBER	ACTIVITY	TASK	MAINTENANCE PLANNER	DATE
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DESCRIPTION OF SPECIFIC WORK COMPLETED

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IS THE CAUSE OF THE PROBLEM ELIMINATED? DESCRIBE:

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MECHANIC, CHIEF, COMMENTS

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SHOP SUPERVISOR COMPLETE	DATE	INITIATOR ACCEPTANCE	DATE	MODE OF FAILURE CODE <input type="checkbox"/>	CAUSE OF FAILURE CODE <input type="checkbox"/>
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--WR NBR--	STAT	PRI	ACTIVITY	WRITTEN	REQUIRED	COMPLETE	---EQUIPMENT ID-----	PH/CM	FREQ	LR MW	#MEN	RES.POS
/UNIT	SHOP	S/P	-----EQUIPMENT LIST DESCRIPTION-----	-----	-----	-----	----- EQUIPMENT NAME -----	-----	B/H	TAG	HOURS	PLN.HRS ACT.HRS
161102001 BA 1	08 M	6 P	511408 PRECIPITATOR HOPPERS	01/23/91	11/22/91	11/26/91	1202 PRECIPITATOR WASH	CM N	Y01 N	0001	5 40.0	200.0 223.0
WORK DESC: CLEAN/WASH PRECIP. INCLUDE AIR HTRS/ID FANS BECAUSE OF WASH OVER PRECIP.(CK NUCLEAR LEVEL DETECTORS TAGGED & KEYED OUT) PLAN DESC: CLEAN/WASH PRECIP. INCLUDE AIR HTRS/ID FANS BECAUSE OF WASH OVER PRECIP(CK NUCLEAR LEVEL DETECTORS TAGGED & KEYED OUT) SUPV SUMM: CLEANED AND WASHED PRECIP.												
161121001 BA 1	08 M	6 P	511408 PRECIPITATOR HOPPERS	01/23/91	11/22/91	11/22/91	1202 PRECIPITATOR REPAIRS	CM N	Y01 N	0001	2 20.0	40.0 40.0
WORK DESC: REPAIR PLATES, HOPPERS AND UPPER INNER STRUCTURE COMPONENTS ON THE PRECIPITATOR PLAN DESC: REPAIR PLATES, HOPPERS AND UPPER INNER STRUCTURE COMPONENTS ON THE PRECIPITATOR SUPV SUMM: REPAIRS ON PRECIP COMPLETED AS PER INSPECTORS PUSH LIST.												
161167001 BA 1	08 M	6 B	511408 PRECIPITATOR HOPPERS	01/23/91	11/22/91	12/11/91	1202 PRECIPITATOR TRANS.PLATES	CM N	Y01 N	0001	4 24.0	96.0 128.5
WORK DESC: REMOVE BOTTOM TRANSPORTER PLATES OFF OF PRECIP. PLAN DESC: REMOVE BOTTOM TRANSPORTER PLATES OFF OF PRECIP.(CHECK NUCLEAR LEVEL DETECTORS ARE TAGGED & KEYED OUT). SUPV SUMM: OPENED TRANS PORTER BOTTOMS. CLOSED TRANSPORT BOTTOMS. REOPENED BOTTOMS FOR RAPPING OVER WEEKEND. CLOSED TRANS PORT BOTTOMS.												
161168001 BA 1	08 M	6 P	511408 PRECIPITATOR HOPPERS	01/23/91	11/22/91	11/22/91	1202 PRECIPITATOR WASH	CM N	Y01 N	0001	5 40.0	200.0 327.0
WORK DESC: WASH PRECIPITATORS FROM DUCT TO STACK AND ALL AREA UNDERNEATH. PLAN DESC: WASH PRECIPITATORS FROM DUCT TO STACK & ALL AREA UNDERNEATH (CHECK) NUC LEVEL DETECTORS ARE TAGGED AND KEYED OUT. SUPV SUMM: WASH DUCT TO STACK FAN.BOTTOM 1B STILL LEAKS. THESE ID FANS ARE TO BE REPLACE NEXT OUTAGE ON WORK ORDER.												
161171001 BA 1	08 M	6 B	511408 PRECIPITATOR HOPPERS	01/23/91	11/22/91	11/22/91	1202 PRECIPITATOR INSPECTION	PH N	Y01 N	0001	2 8.0	16.0 16.0
WORK DESC: INSPECT PLATES, HOPPERS, & UPPER INNER STRUCTURE COMPONENT. PLAN DESC: INSPECT PLATES, HOPPERS, & UPPER INNER STRUCTURE COMPONENT (CHECK) NUC LEVEL DETECTORS ARE TAGGED AND KEYED OUT SUPV SUMM: PERFORMED INSPECTION. FOUND NO PROBLEMS.												

ATTACHMENT - GENERAL CONDITIONS:

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

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

GENERAL CONDITIONS:

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

**ATTACHMENT BA-EU1-L13**  
**COMPLIANCE ASSURANCE MONITORING PLAN**

**ATTACHMENT BA-EU1-L13**

Compliance Assurance Monitoring Plan to be submitted to implementing agency by required date.  
See Section E, Pollutant Information, for method of compliance for specific pollutant.

**ATTACHMENT BA-EU1-L14**  
**ACID RAIN PERMIT APPLICATION**



# Phase II Permit Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31 and Chapter 62-214, F.A.C.

This submission is:  New  Revised

**STEP 1**  
Identify the source by plant name, State, and ORIS code from NADB

Bartow Plant, FL, 634

**STEP 2**  
Enter the boiler ID# from NADB for each affected unit, and indicate whether a repowering plan is being submitted for the unit by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e

Compliance Plan				
a	b	c	d	e
Boiler ID#	Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Repowering Plan	New Units Commence Operation Date	New Units Monitor Certification Deadline
1	Yes	No		
2	Yes	No		
3	Yes	No		
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

**STEP 3**  
Check the box if the response in column c of Step 2 is "Yes" for any unit

For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

**STEP 4**  
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Plant Name (from Step 1)  
*Bartow Plant*

**Standard Requirements**

Permit Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Submit a complete Acid Rain part application (including a compliance plan) under 40 CFR part 72, Rules 62-214.320 and 330, F.A.C. in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
  - (ii) Submit in a timely manner any supplemental information that the permitting authority determines is necessary in order to review an Acid Rain part application and issue or deny an Acid Rain permit;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the permitting authority; and
  - (ii) Have an Acid Rain Part.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

- (1) The owners and operators of each source and each Acid Rain unit at the source shall:
  - (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
  - (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- (2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
- (3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
  - (i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
  - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain permit application, the Acid Rain permit, or the written exemption under 40 CFR 72.7 and 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
  - (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
  - (ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Administrator or permitting authority:
  - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
  - (ii) All emissions monitoring information, in accordance with 40 CFR part 75;
  - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Plant Name (from Step 1)  
**Bartow Plant**

Recordkeeping and Reporting Requirements (cont.)

(iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR parts 72, 73, 75, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or a written exemption under 40 CFR 72.7 or 72.8 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;

(2) Limiting the number of allowances a unit can hold; *provided*, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;

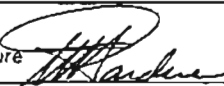
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;

(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,

(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name <i>W. Jeffrey Pardo, C.E.P., Director, Environmental Services Dept.</i>	
Signature 	Date <i>12/14/95</i>

**STEP 5 (optional)**  
Enter the source AIRS  
and FINDS identification  
numbers, if known

AIRS
FINDS



# Certificate of Representation

Page

For more information, see instructions and refer to 40 CFR 72.24

This submission is:  New  Revised

## STEP 1

Identify the source by plant name, State, and ORIS code from NADB

Plant Name	Bartow	State	FL	634
				ORIS Code

## STEP 2

Enter requested information for the designated representative

Name	W. Jeffrey Pardue		
Address	Florida Power Corporation 3201 - 34th Street South, MAC H2G St. Petersburg, FL 33711		
Phone Number	(813) 866-4387	Fax Number	(813) 866-4926

## STEP 3

Enter requested information for the alternate designated representative (optional)

Name			
Address			
Phone Number		Fax Number	

## STEP 4

Complete Step 5, read the certifications and sign and date

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the designated representative or alternate designated representative, as applicable for the affected source and each affected unit at the source identified in this certificate of representation, daily for a period of one week in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

The agreement by which I was selected as the alternate designated representative includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative

Plant Name (from Step 1) Bartow

**Certification**

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Signature (designated representative) <i>[Signature]</i>	Date <u>11/8/94</u>
Signature (alternate)	Date

**STEP 5**  
Provide the name of every owner and operator of the source and each affected unit at the source. Identify the units they own and/or operate by boiler ID# from NADB. For owners only, identify each state or local utility regulatory authority with jurisdiction over each owner

Name <u>Florida Power Corporation</u>					<input checked="" type="checkbox"/> Owner	<input checked="" type="checkbox"/> Operator
ID# <u>1</u>	ID# <u>2</u>	ID# <u>3</u>	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities <u>Florida Public Service Commission</u>						

Name					<input type="checkbox"/> Owner	<input type="checkbox"/> Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

Name					<input type="checkbox"/> Owner	<input type="checkbox"/> Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

Name					<input type="checkbox"/> Owner	<input type="checkbox"/> Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>No. 2 Unit, Fossil Fuel Steam Generator</b>		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown <b>002</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? [ <b>X</b> ] Yes [ ] No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>Unit is tangential-fired</b>		



**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:	19 Aug 1961	
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer:	NA	Model Number: NA
4. Generator Nameplate Rating:	120 MW	
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	1,317	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
	1. Maximum heat input based on permit limit firing No. 6.	

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/yr	8,760 hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU2-D

**E. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>EU2</b>	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>Boiler gases exhaust through a single stack</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>300</b> feet
7. Exit Diameter:	<b>9</b> feet
8. Exit Temperature:	<b>305</b> °F

9. Actual Volumetric Flow Rate:	<b>392,488</b>	acfm
10. Percent Water Vapor:		%
11. Maximum Dry Standard Flow Rate:		dscfm
12. Nonstack Emission Point Height:		feet
13. Emission Point UTM Coordinates:		
Zone: <b>17</b>	East (km): <b>342.4</b>	North (km): <b>3082.6</b>
14. Emission Point Comment (limit to 200 characters):		

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>No. 6 Fuel Oil</b>	
2. Source Classification Code (SCC):  <b>1-01-005-01</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>8.664</b>	5. Maximum Annual Rate:  <b>75,901</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>2.5</b>	8. Maximum Percent Ash:  <b>0.1</b>
9. Million Btu per SCC Unit:  <b>152</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content-HHV.</b>	

**Segment Description and Rate:** Segment 2 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Distillate fuel oil</b>	
2. Source Classification Code (SCC): <b>1-01-005-01</b>	
3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>9.543</b>	5. Maximum Annual Rate: <b>83,601</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: <b>0.5</b>	8. Maximum Percent Ash: <b>0.1</b>
9. Million Btu per SCC Unit: <b>138</b>	
10. Segment Comment (limit to 200 characters): <b>Used as a pilot fuel for startup, shutdown, and malfunction.</b>	



**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 3 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>On-specification used oil</b>	
2. Source Classification Code (SCC):  <b>1-01-013-02</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>9.543</b>	5. Maximum Annual Rate:  <b>8,360</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>2.5</b>	8. Maximum Percent Ash:  <b>0.9</b>
9. Million Btu per SCC Unit:  <b>138</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content - HHV. Limited to 10% annual heat input.</b>	

**Segment Description and Rate:** Segment 4 of 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Propane</b>	
2. Source Classification Code (SCC): <b>1-01-010-02</b>	
3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>14.552</b>	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>81</b>	
10. Segment Comment (limit to 200 characters): <b>Used to light off ignitors.</b>	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO <sub>2</sub>			EL
PM			EL
PM <sub>10</sub>			NS
NO <sub>x</sub>			NS
CO			NS
VOC			NS
H <sub>133</sub>			NS
HAPS			NS

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

1. Pollutant Emitted: <b>SO2</b>	
2. Total Percent Efficiency of Control:	<b>0 %</b>
3. Potential Emissions:	<b>3,622 lb/hour                      15,863 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor:	<b>2.75 lb/mmBtu</b>
Reference: <b>FDEP Rule 62-296.405</b>	
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limits maximum sulfur content in fuel oil to 2.5%.</b>	

Emissions Unit Information Section 2 of 8  
**Allowable Emissions (Pollutant identified on front page)**

**A.**

1. Basis for Allowable Emissions Code: <b>RULE</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>2.75 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>3,622 lb/hour</b>	<b>15,863 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during compliance test for PM and VE</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Firing No. 6 fuel oil 2. Rule 62-296.405(1)</b>		

**B.**

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>PM</b>	
2. Total Percent Efficiency of Control:	<b>0 %</b>
3. Potential Emissions:	<b>395 lb/hour                      721.1 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor: <b>0.3 lb/MMBtu</b>  Reference: <b>FDEP Rule 62-210.700</b>	
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See Attachment BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Potential lb/hr - soot-blowing while oil firing Potential TPY - 0.125 lb/MMBtu over 24 hr (0.1 during steady state operations, 21 hr; 0.3 during soot blowing, 3 hr)</b>	

Emissions Unit Information Section 2 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.1 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>131.7 lb/hour</b>	<b>576.9 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Based on oil-firing during steady state operations 2. Rule 62-210.700</b>		

B.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.3 lb/mmBtu</b>		
4. Equivalent Allowable Emissions:	<b>395.1 lb/hour</b>	<b>216.3 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Based on boiler cleaning (soot-blowing) and load changes while oil firing (3 hours in 24 hours) 2. Rule 62-210.700</b>		

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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 4

1.	Visible Emissions Subtype: <b>VE40</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>40</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>Annual compliance test EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. Visible emission limit at steady state 2. Rule 62-296.405(1) and OGC File No. 87-1261.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 2 of 4

1.	Visible Emissions Subtype: <b>VE60</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>60</b> %      Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>24</b> min/hour
4.	Method of Compliance: <b>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 3 hr in any 24-hr period, except, during the 3 hr, up to four 6-min periods of unlimited capacity for boiler cleaning &amp; load-changing. Rule 62-210.700(3)</b>



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

**Visible Emissions Limitations:** Visible Emissions Limitation 3 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 2 hr in any 24-hr period for malfunctions. Rule 62-210.700(1)</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 4 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Excess emissions during startup, shutdown. Rule 62-210.700(2).</b>

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

**Continuous Monitoring System** Continuous Monitor 1 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>NOX</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>42</b> Serial Number: <b>42-45321-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 2 of 5

1. Parameter Code: <b>CO2</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>41 H</b> Serial Number: <b>41H-44965-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 3 of 5

1. Parameter Code: <b>VE</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>Durag</b> Model Number: <b>CEMOP-281</b> Serial Number: <b>29852</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 4 of 5

1. Parameter Code: <b>FLOW</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>United Sciences</b> Model Number: <b>Ultra Flow 100</b> Serial Number: <b>9303506</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 5 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>SO2</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>43 B</b> Serial Number: <b>43B-45198-273</b>	
5. Installation Date: <b>02 Dec 1994</b>	
6. Performance Specification Test Date: <b>02 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: <input type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	lb/hour		tons/year
	NO <sub>2</sub>			tons/year
5.	PSD Comment (limit to 200 characters):			
	<b>Baseline emissions not known.</b>			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>26 May 1995</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L7</u>	<input type="checkbox"/> Not Applicable
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable

**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L10</u> <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU1-L13</u> <input type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required) <input checked="" type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: <u>BA-EU1-L14</u> <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Not Applicable



**ATTACHMENT BA-EU2-D**  
**EMISSION UNIT REGULATIONS**

## ATTACHMENT BA-EU2-D

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: Unit 2 - FPC Bartow

**FDEP Rules:**

**Air Pollution Control-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

**Stationary Sources-General:**

- 62-210.700(1) - Malfunction only for FFGS
- 62-210.700(2) - FFSG; startup/shut down
- 62-210.700(3) - FFSG; sootblowing/load change
- 62-210.700(4) - Maintenance
- 62-210.700(6)

**Acid Rain:**

- 62-214.300 - Acid Rain Units (Applicability)
- 62-214.320 - Acid Rain Units (Application Shield)
- 62-214.330 - Compliance Options (if 62-214.430)
- 62-214.350(2),(3),(6) - Acid Rain Units (Certification)
- 62-214.370 - Revisions; corrections; (potentially applicable)
- 62-214.430 - Acid Rain Units (Compliance Options)

**Stationary Sources-Emission Standards:**

- 62-296.405(1)(a) - FFSG; VE
- 62-296.405(1)(b) - FFSG; PM
- 62-296.405(1)(c)1.j. - FFSG; Oil-SO<sub>2</sub> (general limit)
- 62-296.405(1)(e) - FFSG; Test Methods
- 62-296.405(1)(f)1.a.(i) - FFSG; Opacity CEMS exempted for oil/gas units
- 62-296.405(1)(f)1.b. - FFSG; SO<sub>2</sub> CEMS exempted for non-controlled units (oil/gas)
- 62-296.700(2)(a) - RACT; Emission Limitations PM
- 62-296.700(2)(b) - RACT; Visible Emissions
- 62-296.700(3) - Test Methods
- 62-296.700(5) - RACT; Circumvention

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

- 62-297.310(1) - Test Runs-Mass Emission
- 62-297.310(2)(b) - Operating Rate; other than CTs

- 62-297.310(3)
  - 62-297.310(4)(a)
  - 62-297.310(4)(b)
  - 62-297.310(4)(c)
  - 62-297.310(4)(d)
  - 62-297.310(4)(e)
  - 62-297.310(5)
  - 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)2.
  - 62-297.310(7)(a)3.
  - 62-297.310(7)(a)4.
  - 62-297.310(7)(a)5.
  - 62-297.310(7)(a)6.
  - 62-297.310(7)(a)9.
  - 62-297.310(7)(c)
  - 62-297.310(8)
- Calculation of Emission
  - Applicable Test Procedures; Sampling time
  - Sample Volume
  - Required Flow Rate Range-PM/H<sub>2</sub>SO<sub>4</sub>/F
  - Calibration
  - EPA Method 5-only
  - Determination of Process Variables
  - Permanent Test Facilities-general
  - Sampling Ports
  - Work Platforms
  - Access
  - Electrical Power
  - Equipment Support
  - FFSG excess emissions
  - Permit Renewal Test Required
  
  - PM exemption if < 400 hrs/yr
  - PM exemption if < 200 hrs/6 month
  - FDEP Notification - 15 days
  - Waiver of Compliance Tests (fuel sampling)
  - Test Reports

Federal Rules:

Acid Rain-Permits:

- 40 CFR 72.9(a)
  - 40 CFR 72.9(b)
  - 40 CFR 72.9(c)(1)
  - 40 CFR 72.9(c)(2)
  - 40 CFR 72.9(c)(1)(iii)
  - 40 CFR 72.9(c)(4)
  - 40 CFR 72.9(c)(5)
  - 40 CFR 72.9(e)
  - 40 CFR 72.9(f)
  - 40 CFR 72.9(g)
  - 40 CFR 72.20(a)
  - 40 CFR 72.20(b)
  - 40 CFR 72.20(c)
  - 40 CFR 72.21
  - 40 CFR 72.22
  - 40 CFR 72.23
  - 40 CFR 72.30(a)
  - 40 CFR 72.30(c)
  - 40 CFR 72.30(d)
- Permit Requirements
  - Monitoring Requirements
  - SO<sub>2</sub> Allowances-hold allowances
  - SO<sub>2</sub> Allowances-violation
  - SO<sub>2</sub> Allowances-Phase II Units (listed)
  - SO<sub>2</sub> Allowances-allowances held in ATS
  - SO<sub>2</sub> Allowances-no deduction for 72.9(c)(1)(i)
  - Excess Emission Requirements
  - Recordkeeping and Reporting
  - Liability
  - Designated Representative; required
  - Designated Representative; legally binding
  - Designated Representative; certification requirements
  - Submissions
  - Alternate Designated Representative
  - Changing representatives; owners
  - Requirements to Apply (operate)
  - Requirements to Apply (reapply before expiration)
  - Requirements to Apply (submittal requirements)

- 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

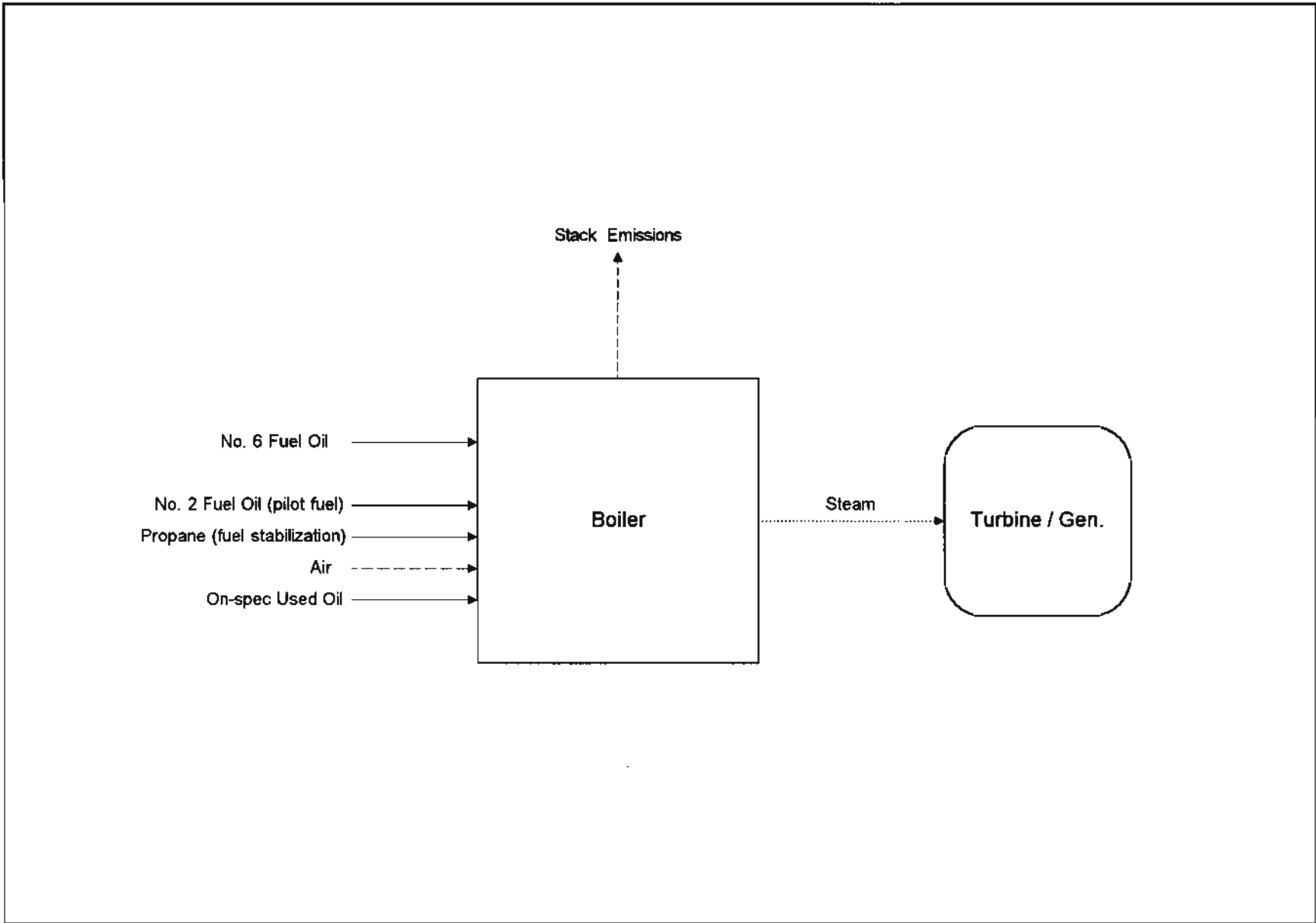
#### Monitoring Part 75:

- 40 CFR 75.5 - Prohibitions
  - 40 CFR 75.10(a)(1) - Primary Measurement; SO<sub>2</sub>; except 75.11&.16; Subpart D
  - 40 CFR 75.10(a)(2) - Primary Measurement; NO<sub>x</sub>; except 75.12&.17; Subpart E
  - 40 CFR 75.10(a)(3)(i) - Primary Measurement; CO<sub>2</sub>; monitor
  - 40 CFR 75.10(a)(4) - Primary Measurement; Opacity; except 75.14&.18
  - 40 CFR 75.10(b) - Primary Measurement; Performance Requirements
  - 40 CFR 75.10(c) - Primary Measurement; Heat Input; Appendix F
  - 40 CFR 75.10(d) - Primary Measurement; Hourly Operating ; Opacity; SO<sub>2</sub>
  - 40 CFR 75.10(f) - Primary Measurement; Minimum Measurement
  - 40 CFR 75.10(g) - Primary Measurement; Minimum Recording
  - 40 CFR 75.11(d) - SO<sub>2</sub> Monitoring; Gas- and Oil-fired units
  - 40 CFR 75.11(e) - SO<sub>2</sub> Monitoring; Gaseous fuel firing
  - 40 CFR 75.12(b) - NO<sub>x</sub> Monitoring; Determination of NO<sub>x</sub> emission rate;
- Appendix F
- 40 CFR 75.13(a) - CO<sub>2</sub> Monitoring; Continuous monitor
  - 40 CFR 75.14(a) - Opacity Monitoring; Coal and oil units
  - 40 CFR 75.20(a)(5) - Initial Certification Approval Process; Loss of Certification
  - 40 CFR 75.20(b) - Recertification Procedures
  - 40 CFR 75.20(c) - Certification Procedures
  - 40 CFR 75.20(g) - Exceptions to CEMS; oil/gas/diesel; Addendix D & E
  - 40 CFR 75.21(a) - QA/QC; CEMS;
  - 40 CFR 75.21(b) - QA/QC; Opacity;
  - 40 CFR 75.21(c) - QA/QC; Calibration Gases
  - 40 CFR 75.21(d) - QA/QC; Notification of RATA
  - 40 CFR 75.21(e) - QA/QC; Audits
  - 40 CFR 75.21(f) - QA/QC; CEMS
  - 40 CFR 75.22 - Reference Methods
  - 40 CFR 75.24 - Out-of-Control Periods; CEMS
  - 40 CFR 75.30(a)(1) - General Missing Data Procedures; SO<sub>2</sub>
  - 40 CFR 75.30(a)(2) - General Missing Data Procedures; flow
  - 40 CFR 75.30(a)(3) - General Missing Data Procedures; NO<sub>x</sub>
  - 40 CFR 75.30(a)(4) - General Missing Data Procedures; CO<sub>2</sub>

- 40 CFR 75.30(d) - General Missing Data Procedures; SO<sub>2</sub>
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.35 - Missing Data Procedures for CO<sub>2</sub>
- 40 CFR 75.36 - Missing Data Procedures for Heat Input
- 40 CFR 75.53 - Monitoring Plan (revisions)
- 40 CFR 75.54(a) - Recordkeeping-general
- 40 CFR 75.54(b) - Recordkeeping-operating parameter
- 40 CFR 75.54(c) - Recordkeeping-SO<sub>2</sub>
- 40 CFR 75.54(d) - Recordkeeping-NO<sub>x</sub>
- 40 CFR 75.54(e) - Recordkeeping-CO<sub>2</sub>
- 40 CFR 75.54(f) - Recordkeeping-Opacity
- 40 CFR 75.55(c);(e) - Recordkeeping; Special Situations (gas & oil firing)
- 40 CFR 75.56 - Certification; QA/QC Provisions
- 40 CFR 75.60 - Reporting Requirements-General
- 40 CFR 75.61 - Reporting Requirements-Notification cert/recertification
- 40 CFR 75.63 - Reporting Requirements-Certification/Recertification
- 40 CFR 75.64(a) - Reporting Requirements-Quarterly reports; submission
- 40 CFR 75.64(b) - Reporting Requirements-Quarterly reports; DR statement
- 40 CFR 75.64(c) - Rep. Req.; Quarterly reports; Compliance Certification
- 40 CFR 75.64(d) - Rep. Req.; Quarterly reports; Electronic format
- 40 CFR 75.65 - Opacity Reports
- Appendix A-3. - Performance Specifications
- Appendix A-4. - Data Handling and Acquisition Systems
- Appendix A-5. - Calibration Gases
- Appendix A-6. - Certification Tests and Procedures
- Appendix B - QA/QC Procedures
- Appendix C-1. - Missing Data; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
- Appendix C-2. - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
- Appendix F - Conversion Procedures
- Appendix G-2. - Determination of CO<sub>2</sub>; from combustion sources
- Appendix H - Traceability Protocol
- 40 CFR Part 77.3 - Offset Plans (future)
- 40 CFR Part 77.5(b) - Deductions of Allowances (future)
- 40 CFR Part 77.6 - Excess Emissions Penalties SO<sub>2</sub> and NO<sub>x</sub>

**ATTACHMENT BA-EU2-L1**

**PROCESS FLOW DIAGRAM**



<b>Process Flow Legend</b> .....▶ Steam Flow - - - -▶ Gas Flow ———▶ Solid / Liquid Flow	<b>Florida Power Corporation, Bartow Plant</b> <b>Process Flow Diagram</b>	<i>Emission Unit:</i> Boiler No. 2 <i>Process Area:</i> Overall Plant <i>Filename:</i> FPCBA.VSD <i>Latest Revision Date:</i> 6/1/96 12:18 PM	

**ATTACHMENT BA-EU2-L4**  
**DESCRIPTION OF STACK SAMPLING FACILITIES**



## ATTACHMENT BA-EU2-L4

### Description of Stack Sampling Facilities

The Bartow Plant Steam Generator Unit No. 2 is required by Permit AO52-216412 to perform annual stack testing in accordance with standard EPA reference methods. Pursuant to FAC 62-297.345, the annual stack test required is performed with the required stack sampling facilities. The unit is currently not operating since it has been placed on long-term reserve shutdown. As specified by rule, the permanent test facilities must meet the following specifications before the next stack test:

- The sampling ports have a minimum effective diameter of 3 inches.
- The location of the sampling ports meet FAC 297-345 (3)(a)(3) requirements (i.e., 2 stack diameters downstream and 0.5 stack diameters upstream of flow disturbances).
- At least two sampling ports, 90 degrees apart have been installed on the circular stack.
- The working platform is at least 24 square feet in area, at least three feet wide, extends 180 degrees around the stack, has safety rails, toeboards, and a hinged floor opening attached to it. There are no obstructions 14 inches below the port and 6 inches on either side of the port.
- The platform access ladder is equipped with a safety cage.

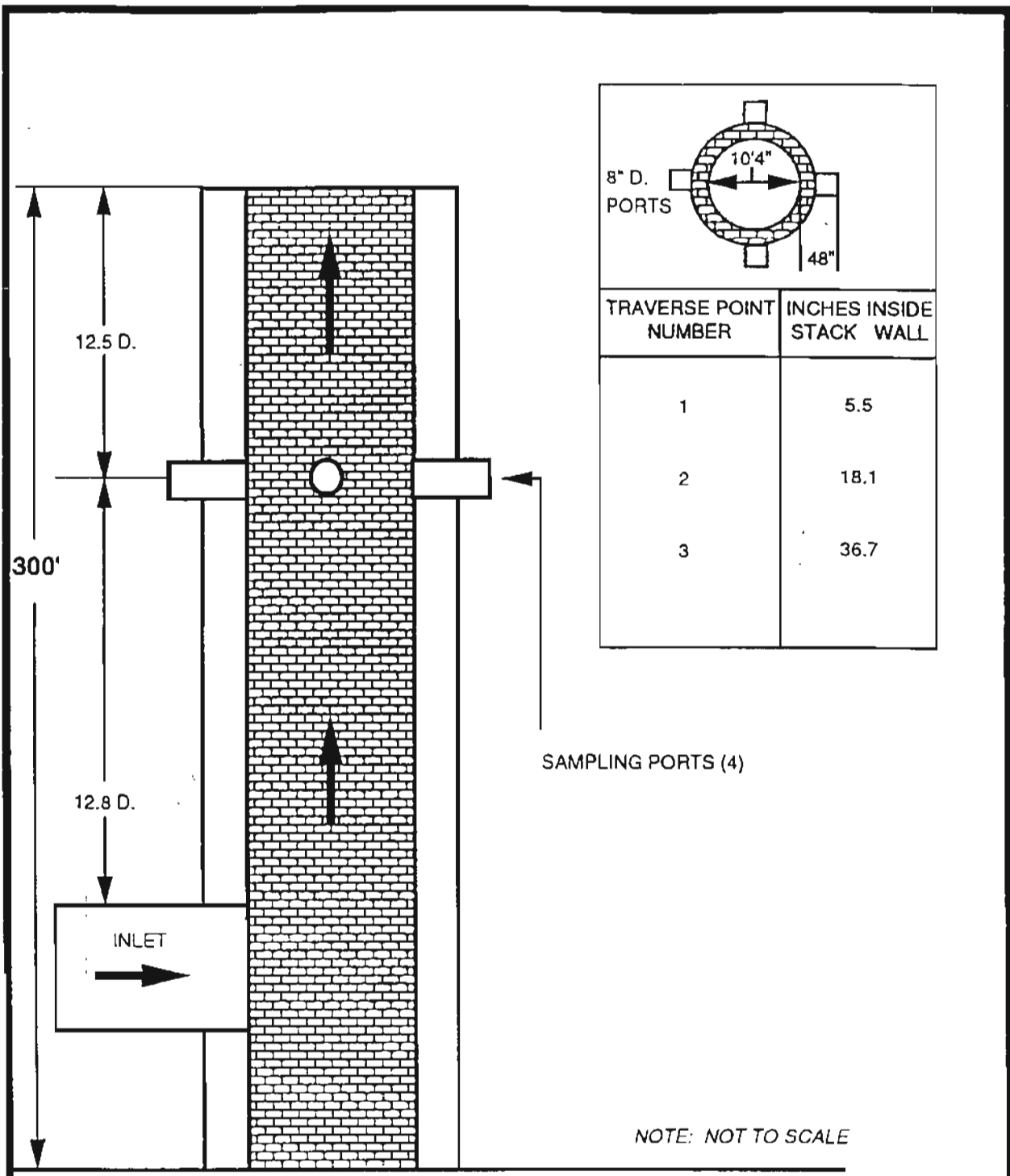


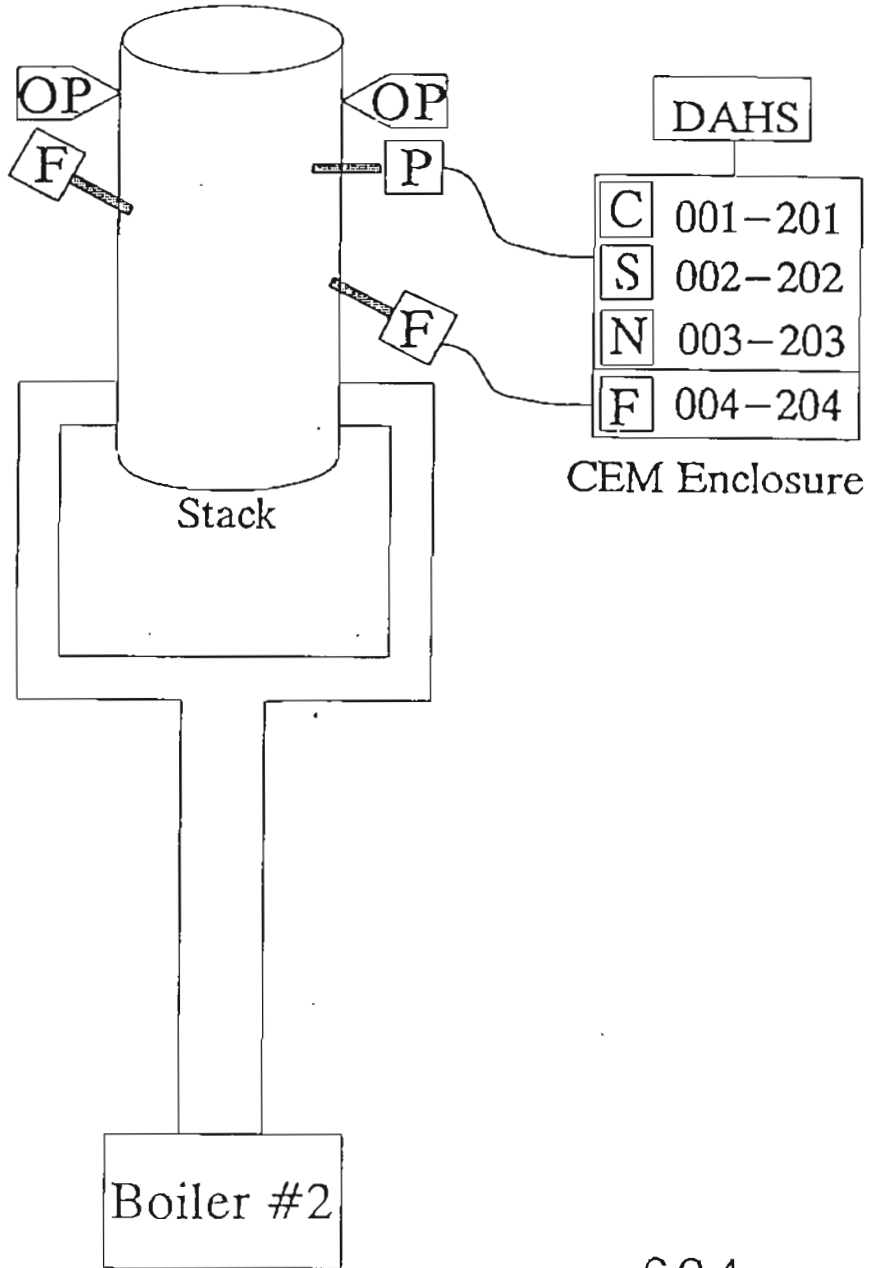
FIGURE 1.  
 OUTLET STACK SCHEMATIC  
 BARTOW UNIT 2  
 FLORIDA POWER CORPORATION  
 ST PETERSBURG, FLORIDA



**AIR CONSULTING  
 AND ENGINEERING, INC.**

# BARTOW Unit No. 2

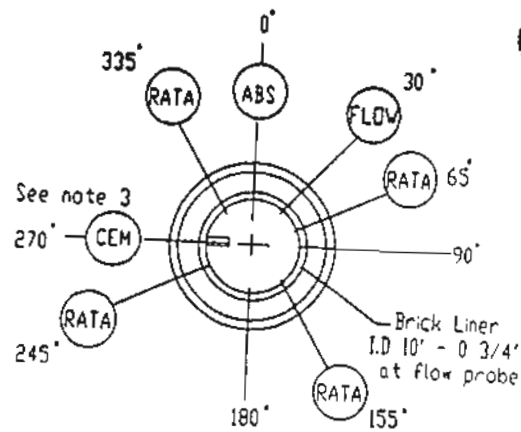
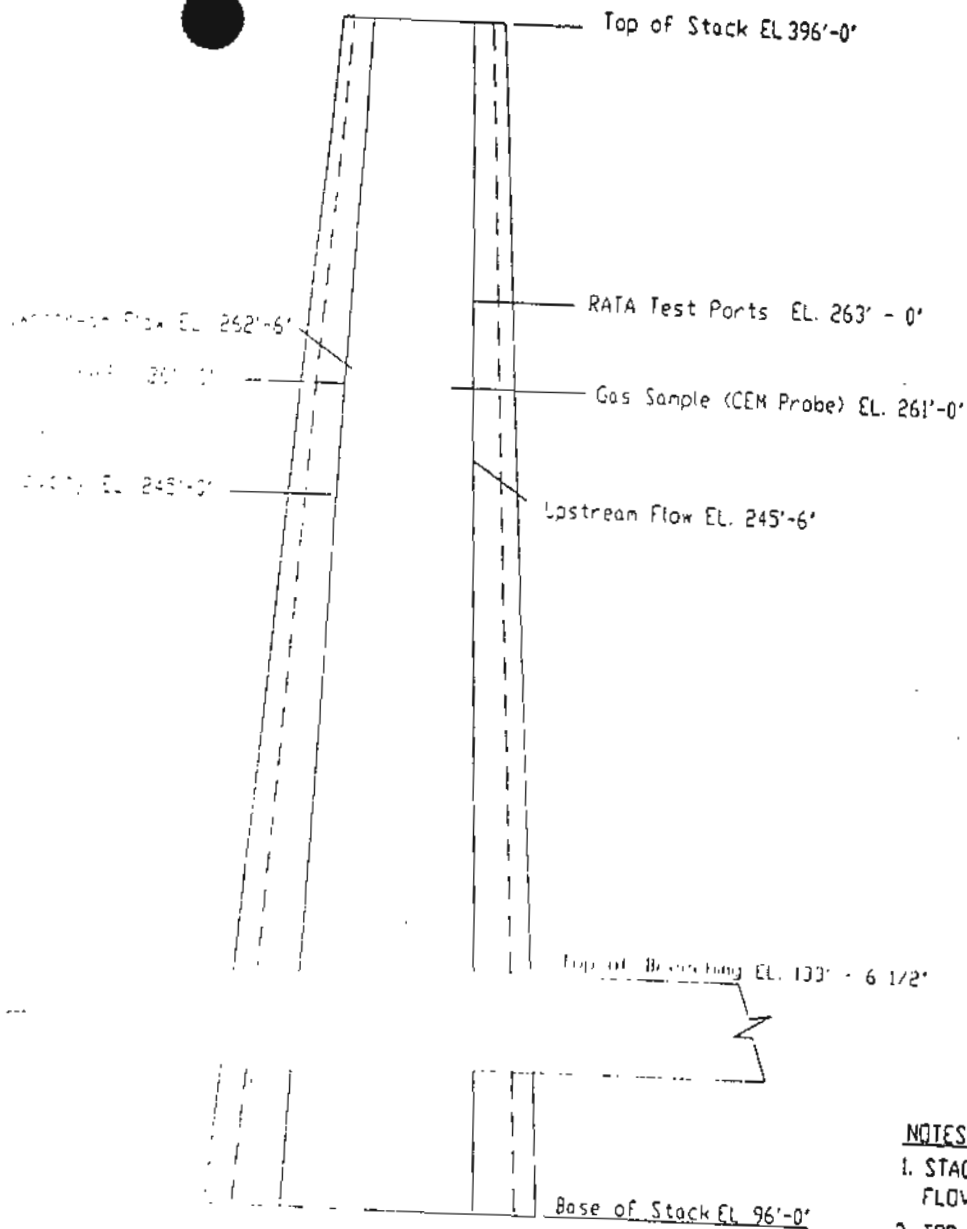
Florida Power Corp., St. Petersburg, Fl  
EPA Monitoring Plan Location Information (Part 2)



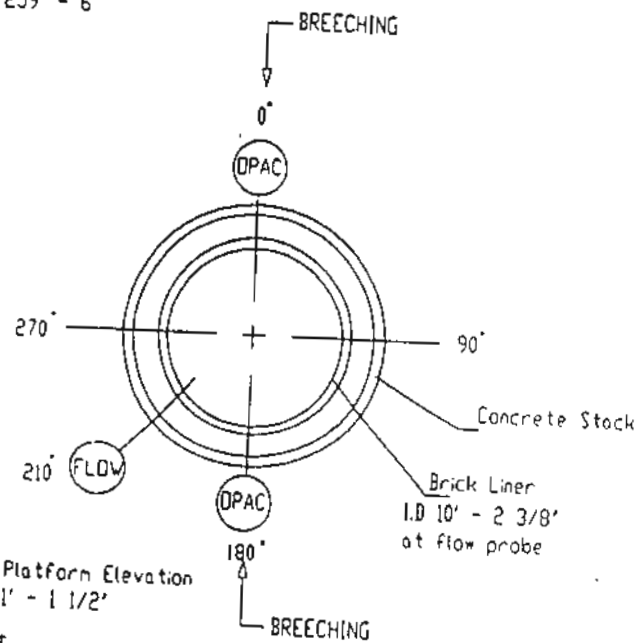
ORIS code : 634

NADB Boiler ID : \*\*2

**BEST AVAILABLE COPY**



Downstream Platform Elevation  
259' - 6"



Upstream Platform Elevation  
241' - 1 1/2"

NOTES

1. STACK LINER CROSS SEC. AREA AT FLOW PROBE ELEVATION IS 80.7 SQFT.
2. TOP OF STACK LINER CROSS SEC. AREA IS 63.6 SQFT.
3. CEM MEASUREMENT POINT IS > 1.0 METER FROM THE LINER WALL.
4. ABS = ABSOLUTE PRESSURE PORT

ATTACHMENT NO. 2

FLORIDA POWER CORPORATION BARTOW STATION UNIT No. 2
DRIS NO. 634
NADB NO. **2

**ATTACHMENT BA-EU2-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**

**ATTACHMENT BA-EU2-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**  
**MINIMIZING EXCESS EMISSIONS**

Startup of the fossil-fuel boilers begins when fuel (No. 2 or No. 6 fuel oil) is introduced into one or more burners within the boiler and lighted (commencement of combustion). Propane is used to light off ignitors. Startup is complete and steady-state operation begins when the combustion process has stabilized and the megawatt load on the unit is stable and above 10 percent load.

Shutdown of the fossil-fuel boilers begins when unit megawatt load is decreased to below 10 percent of maximum and continues until the final burner gun is removed from service.

Emissions may be detected during all modes of boiler operation by various continuous emissions monitors. Continuous monitors are currently in place for NO<sub>x</sub>, CO<sub>2</sub>, and opacity. Audible and visual alarms are activated whenever the permitted value for opacity is approached.

Countermeasures which may be taken in the event of excess emissions include, but are not limited to:

- burner elevation loading
- proper excess air adjustments
- recognizing and removal of faulty burners
- fuel oil temperature adjustments
- proper and timely operation of boiler cleaning devices
- removal of the unit from system-dispatch mode (load control)
- reduction of unit megawatt load
- stopping and restarting of boiler cleaning devices
- lowering load ramp rate
- pressure rate changes
- placing boiler controls on manual
- adjusting burner dampers to increase windbox/furnace air pressure

Knowledge of the appropriate countermeasures to take when excess emissions occur is a part of the routine operator training for those who operate the boilers. Topics include current permit limits,

maximum allowable duration of excess emissions, appropriate countermeasures for excess emissions, duty to notify, and fuels and combustion training.

**ATTACHMENT BA-EU2-L7**  
**OPERATION AND MAINTENANCE PLAN**

**[See Attachment BA-EU2-L12, Air Operating Permit No. AO52-216412,  
Specific Condition No. 15]**



**ATTACHMENT BA-EU2-L10**  
**ALTERNATIVE METHODS OF OPERATION**

**ATTACHMENT BA-EU2-L10**

**ALTERNATIVE METHODS OF OPERATION**

The Steam Generator Unit No. 2 is fired with new No. 6 fuel oil having a maximum sulfur content not to exceed 2.5% by weight and on-spec used oil. This unit also uses No. 2 fuel oil as an ignitor fuel during startup.

**ATTACHMENT BA-EU2-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



# Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia B. Wetherell, Secretary

## NOTICE OF PERMIT RE-ISSUANCE

### CERTIFIED MAIL

In the Matter of an Application  
for permit by:

DER File No.: A052-216412  
County: Pinellas

Mr. W.J. Pardue, Manager  
Environmental Programs  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, Florida 33733

Enclosed is revised Permit Number A052-216412 to operate the Bartow Unit No. 2 located in St. Petersburg, issued pursuant to Section 403, Florida Statutes. This permit has been revised as a result the FPC comments submitted on April 14, 1993 and subsequent discussions between FPC and DER staff. Please replace the previously received version of permit number A052-216412 with this revised version.

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

The Petition shall contain the following information;

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

RECEIVED

APR 27 1993

Environmental Svcs  
Department

- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

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

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



David R. Zell  
Air Permitting Engineer  
3804 Coconut Palm Drive  
Tampa Florida 33619-8318  
Phone (813) 744-6100 Ext. 412

DRZ/  
Attachment

cc: Gary Robbins, Pinellas Co. Dept. of Environmental Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT RE-ISSUANCE and all copies were mailed by certified mail before the close of business on APR 26 1993 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED,  
on this date, pursuant to Section  
120.52(11), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

  
Clerk

APR 26 1993  
Date



# Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia B. Wetherell, Secretary

**PERMITTEE:**

Florida Power Corporation  
Bartow Plant  
P.O. Box 14042  
St. Petersburg, FL 33733

**PERMIT/CERTIFICATION:**

Permit No: A052-216412  
County: Pinellas  
Expiration Date: 09/16/97  
Project: Steam Generator  
Bartow Unit No. 2

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

For the operation of Bartow Unit No. 2, a fossil fuel fired electric utility steam generator rated at 120 MW/hour. The unit is fired with No. 6 fuel oil, with a maximum sulfur content of 2.5% by weight, at a maximum heat input rate of 1,317 MMBtu/hour (209 BBL/hour, 8,778 gallons/hour).

**Location:** Bartow Plant, Weeden Island, St. Petersburg

**UTM:** 17-342.44 E      3082.7 N      **NEDS No:** 0011      **Point ID No:** 02

Replaces Permit No.: A052-137121

(Note: This permit also replaces the 1st version of A052-216412 issued January 26, 1993)



**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: A052-216412  
County: Pinellas  
Project: Bartow Unit 2

**SPECIFIC CONDITIONS:**

1. A part of this permit is the attached 15 General Conditions. [Rule 17-4.160, F.A.C.].
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law. [Rule 17-210.300, F.A.C.].

**Operational and Emission Limitations**

3. This boiler is permitted for continuous operation (8,760 hours per year). [As requested by applicant].
4. This boiler shall be fired with No. 6 fuel oil at a maximum heat input rate not to exceed 1,317 MMBtu/hr (8,778 gallons/hour). [Previous permits and information supplied with application].
5. Sulfur content of the No. 6 fuel oil fired in this boiler shall not exceed 2.5% sulfur by weight. In no case shall sulfur dioxide emissions from this boiler exceed 2.75 pounds/MMBtu of heat input nor 3,662 pounds per hour at maximum heat input rate. [Previous permits and Rule 17-296.405(1)(c)1.k., F.A.C.].
6. Particulate emissions from this boiler shall be limited as follows:
  - A. During normal operations, particulate emissions shall not exceed 0.10 pounds/MMBtu, 131.7 pounds per hour, nor 576.9 tons per year;
  - B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 395.1 pounds per hour, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.

[Rules 17-296.702(2)(a) and 17-210.700(3), F.A.C.].

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216412  
County: Pinellas  
Project: Bartow Unit 2

SPECIFIC CONDITIONS:

7. Visible emissions from this boiler shall be limited as follows:
- A. During normal operations, visible emissions shall not exceed 40% opacity;
  - B. During boiler cleaning (sootblowing) and load changes visible emissions shall not exceed 60% opacity, provided that the duration of such excess emissions shall not exceed a total of 3 hours in any 24 hour period, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.

[Rules 17-296.702(2)(b), 17-296.405(1)(a) and 17-210.700(3), F.A.C. and OGC Order File No. 87-1261, October 12, 1987].

8. Excess emissions resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized. Excess emissions resulting from malfunctions are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized, but in no case exceeds two hours in any 24-hour period unless specifically authorized by the Department for a longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operations, or any other equipment or process failure which may be reasonably be prevented during startup, shutdown or malfunction are prohibited. (See also Specific Condition No. 19).

[Rules 17-210.700(1) and (2), F.A.C.].

Testing and Compliance Documentation Requirements

9. Test the emissions from the boiler for the following pollutants annually \* within one month of the base date of May 28. A report of the test data shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management within 45 days of the testing. The test report shall include a statement of the boiler O<sub>2</sub> levels during the test, the fuel firing rate (in gallons/hour and MMBtu/hr) and the results of the fuel oil analysis (See Specific Condition No. 12).

(X) Particulate matter (PM) (steady state and sootblowing)

(X) Visible emissions (VE) (steady state and sootblowing)

(continued)

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: AO52-216412  
County: Pinellas  
Project: Bartow Unit 2

**SPECIFIC CONDITIONS:**

9. (continued)

(\* Note: This source was authorized by Order of the Department Secretary dated October 12, 1987 (OGC File No. 1261) to test particulate matter emissions and visible emissions annually with a 40% opacity limit. Failure of this source to meet either the particulate standard or the opacity standard in the future shall constitute grounds for revocation of this authorization and a return to more frequent testing.)  
[Rules 17-297.340 & 17-297.570, F.A.C. and OGC Order No. 87-1261].

10. The permittee shall notify the Air Quality Division of the Pinellas County Department of Environmental Management in writing at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.  
[Rule 17-297.340(1)(i), F.A.C.].

11. Compliance with the emission limitations of Specific Condition Nos. 5, 6 and 7 shall be determined using the following methods contained in Rule 17-297, F.A.C. or in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C.:

<u>Pollutant</u>	<u>Test Method</u>
Visible emissions	DER Method 9
Particulate Matter	EPA Method 5 or EPA Method 17 (only if stack temperature is less than 375 °F)
Sulfur dioxide (& %S)	Fuel analysis (EPA Method 19)

The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A.

12. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated during the particulate and VE compliance tests based on analysis of an as-fired fuel oil sample taken from this unit during the testing. Results of this analysis, and calculation of the resulting pound/MMBtu sulfur dioxide emission rate, shall be submitted with the test report.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216412  
County: Pinellas  
Project: Bartow Unit 2

SPECIFIC CONDITIONS:

13. Documentation of ongoing compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated through fuel analysis on a monthly basis. The permittee shall take a daily as-fired fuel oil sample for each day of operation and, on a monthly basis, analyze the monthly composite fuel oil sample for sulfur content and heat content (See O&M Plan, Specific Condition No. 15.B.5.). Based on the results of this monthly analysis, the permittee shall calculate the monthly average pound/MMBtu sulfur dioxide emission rate. The fuel analysis results and the monthly sulfur dioxide emission rate calculation shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained for at least a two year period. (See also Specific Condition No. 17 for quarterly reporting requirements.) [Rule 17-4.070(3), F.A.C.].

14. Approved compliance testing of emissions must be conducted while firing No. 6 fuel oil operating within 90-100% of the permitted rates as stated in the Process Parameters Section of Specific Condition No. 15. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher rate, is submitted. Failure to submit the fuel oil firing rate or operating at conditions during the test which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance. [Rule 17-4.070(3), F.A.C.].

Operation and Maintenance Plan

15. The following is the specified Operation and Maintenance Plan for Particulate Control as required by Rule 17-296.700(6), F.A.C. (Particulate Matter RACT).

A. Process Parameters (Rule 17-296.700(6)(d), F.A.C.)

- |                         |   |
|-------------------------|---|
| 1. Heat Input Rate:     | 1,317 MMBtu/hour (maximum)                                |
| 2. Fuel:                | No. 6 Fuel oil with a max. sulfur content of 2.5%         |
| 3. Fuel Firing Rate:    | 8,778 gallons/hour (209 BBL/hour) of No. 6 oil (maximum), |
| 4. Ash content:         | as sampled  |
| 5. Steam Temperature:   | 1000 °F   |
| 6. Steam Pressure:      | 1,850 psi   |
| 7. Steam Flow Rate:     | 919,600 pounds/hour                                       |
| 8. Stack Height         | 300 feet  |
| 9. Boiler Manufacturer: | Combustion Engineering                                    |
| 10. Burner Arrangement: | Tangential fired  |

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: AO52-216412  
County: Pinellas  
Project: Bartow Unit 2

**SPECIFIC CONDITIONS:**

15. (continued)

**B. Inspection and Maintenance Program**

1. Scheduled during major outages: Boilers, controls, auxiliaries, burners and duct work are to be inspected and repaired as necessary. All parts are to be inspected, cleaned and replaced as necessary.
2. Scheduled during non-peak load periods in Spring and Fall: This schedule is affected by forced outage requirements.
3. The following operating parameters are to be continuously monitored and maintained at appropriate levels to produce efficient fuel combustion:
  - a. fuel flow rate
  - b. fuel temperature
  - c. fuel pressure
  - d. air flow rate
  - e. steam flow rate
  - f. steam temperature
  - g. steam pressure
4. Plant operators are to monitor, adjust and record the following operating parameters at least once per day to assure efficient plant operation:
  - a. temperatures (superheat, reheat, and fuel)
  - b. flows (steam, feedwater, fuel)
  - c. unit load
5. Fuel oil quality is to be checked prior to delivery and a daily sample taken each day that the facility is operated for a monthly composite sample analysis. Fuel oil analysis (by ASTM Methods) is to be analyzed for the following:
  - a. heat content (Btu/gallon)
  - b. sulfur content (%S by weight)
  - c. density
  - d. API gravity

- C. Recordkeeping (Rule 17-296.700(6)(e), F.A.C.)  
Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Pinellas County Department of Environmental Management upon request.

[Rule 17-296.700(6), F.A.C.]

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: AO52-216412  
County: Pinellas  
Project: Bartow Unit 2

**SPECIFIC CONDITIONS:**

16. Based on the original permit application received by the Department and information submitted by the permittee with subsequent applications, the following are the maximum potential emission rates from this source based upon which this permit is issued:

Pollutant	Potential Emissions	
	pounds/hour	tons/year
Particulate (PM)	131.7	576.9
Sulfur dioxide (SO2)	3,621.8	15,863.3
Carbon Monoxide (CO)	43.9	192.2
Nitrogen Oxides (NOx)	368.7	1,614.8
Volatile Organics (VOC)	6.7	29.2

**Reporting Requirements**

17. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be documented by the permittee through submittal of quarterly reports of the Bartow Plant monthly average fuel oil sulfur content, heat content, and the resulting sulfur dioxide emission rate in pounds/MMBtu of heat input. These quarterly reports shall be submitted within 30 days of the end of each calendar quarter to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management. [Rule 17-4.070(3), F.A.C.].

18. Submit to the Southwest District Office of the Department and to the Pinellas County Department of Environmental Management each calendar year on or before March 1, an emission report for this source for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), F.S.:

- A. Annual amount of materials and/or fuels utilized
- B. Annual emissions of PM, SO<sub>2</sub>, NOx and hydrocarbons based on fuel use, operating hours and fuel analysis. Until further notice by the Department the permittee shall calculate PM emissions by multiplying the PM stack test results by the hours of operation. Other annual emissions shall be determined by multiplying the annual fuel use times the following emission factors:

(continued)

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: A052-216412  
County: Pinellas  
Project: Bartow Unit 2

**SPECIFIC CONDITIONS:**

18. (continued)

Pollutant	No. 6 Oil (lb/1000 gal)
SO2	157(S)
CO	5
NOx	42
VOC	0.76

(Provide calculation sheets to document calculation method)

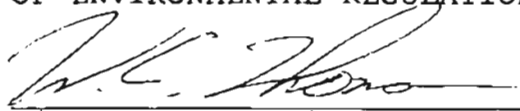
C. Any changes in the information contained in the permit application.

19. Excess emission notification. In the event that the permittee is unable to comply with any of the conditions of the permit, the permittee shall immediately notify the Air Quality Division of the Pinellas County Department of Environmental Management. Notification shall be conducted in accordance with General Condition No. 8 of this permit. (See attached General Conditions.) In the case of excess emissions resulting from malfunctions, a full written report on the malfunction shall be submitted in a quarterly report if so requested by the Department. [Rule 17-210.700(6), F.A.C.].

**Permit Renewal**

20. Three applications to renew this operating permit shall be submitted to the Southwest District Office of the Department, with an additional copy sent to the Air Quality Division of the Pinellas County Department of Environmental Management, no later than July 17, 1997 (60 days prior to the expiration date of this permit). [Rule 17-4.090(1), F.A.C. and Pinellas County Ordinance 89-70, as amended, Subpart 2.210].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

ATTACHMENT - GENERAL CONDITIONS:

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

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:



BEST AVAILABLE COPY

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit;
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- ( ) Compliance with New Source Performance Standard

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
  1. the date, exact place, and time of sampling or measurements;
  2. the person responsible for performing the sampling or measurements;
  3. the dates analyses were performed;
  4. the person responsible for performing the analyses;
  5. the analytical techniques or methods used;
  6. the results of such analyses.

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

THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the matter of: )  
 )  
Petition for Reduction in ) OGC File No. 87-1261  
Quarterly Particulate )  
Emissions Compliance Testing )  
 )  
FLORIDA POWER CORPORATION, )  
Bartow Unit 2, )  
 )  
Petitioner )  
\_\_\_\_\_ )

ORDER

On May 4, 1987, the Petitioner, Florida Power Corporation, filed a Petition for Reduction in the Frequency of Particulate Matter Emissions Compliance Testing pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1. for the following fossil fuel-fired steam generating unit:

BARTOW UNIT 2

Pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1., Petitioner has conducted semi-annual particulate matter emissions compliance tests. Florida Administrative Code Rule 17-2.600(5)(b)1. provides that the Department may reduce the frequency of particulate matter testing upon a demonstration that the particulate matter standard of 0.1 pounds per million Btu heat input has been regularly met. The petition and supporting documentation submitted by Petitioner indicate that, since December 21, 1982, Petitioner has regularly met the particulate matter standard. It is therefore,

ORDERED that the Petition for Reduction in the Frequency of Particulate Matter Emissions Compliance Testing is GRANTED, and that:

1. Petitioner's generating unit Bartow Unit 2 shall be

required to conduct one steady-state particulate matter emissions compliance test annually and one particulate matter emissions compliance test annually under soot blowing conditions.

2. Bartow Unit 2 shall be subject to a steady-state visible emissions limiting standard of forty (40) percent opacity (number 2 of the Ringelmann Chart).
3. This order supercedes all conflicting conditions relating to frequency of particulate matter emissions compliance testing contained in operating permit A052-56650 for Bartow Unit 2.
4. The Department, or its designee, if after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emissions standard in Chapter 17-2 or in a permit issued pursuant to Chapter 17-2 is being violated, may require additional tests for particulate matter emissions pursuant to Florida Administrative Code Rule 17-2.700(2)(b).

Persons whose substantial interests are affected by the Department's above proposed agency action may petition for an administrative determination (hearing) in accordance with Section 120.57, Florida Statutes. The petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within twenty-one (21) days of publication of this notice. Failure to file a petition within the twenty-one (21) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section

Page three

120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Therefore, persons who may not desire to file a petition may want to intervene in the proceeding. A petition for intervention must be filed pursuant to Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and must be filed with the Hearing Officer if one has been assigned, at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no Hearing Officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes.

DONE AND ORDERED this 12<sup>th</sup> day of October, 1987, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

C. Hitchcock                      10-13-87  
Clerk                                      Date

Dale Twachtmann  
DALE TWACHTMANN  
Secretary

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400  
(904) 488-4805

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>No. 3 Unit, Fossil Fuel Steam Generator</b>		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown <b>003</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input checked="" type="checkbox"/> Yes [ ] No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>Unit is tangential-fired</b>		

**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:



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

**Emissions Unit Details**

1. Initial Startup Date:	25 Jul 1963	
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer: NA	Model Number: NA	
4. Generator Nameplate Rating:	225 MW	
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	2,211	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
	1. Maximum heat input based on permit limit firing No. 6 fuel oil (2266 MMBtu/hr for natural gas).	

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	24 hours/day	7 days/week
	52 weeks/yr	8,760 hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU3-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: EU3	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>Boiler gases exhaust through a single stack</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>300</b> feet
7. Exit Diameter:	<b>11</b> feet
8. Exit Temperature:	<b>275</b> °F

9. Actual Volumetric Flow Rate:	<b>646,648</b> acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates:	
Zone: <b>17</b>	East (km): <b>342.4</b> North (km): <b>3082.6</b>
14. Emission Point Comment (limit to 200 characters):	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>No. 6 Fuel Oil</b>	
2. Source Classification Code (SCC):  <b>1-01-004-04</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>14.546</b>	5. Maximum Annual Rate:  <b>127,423</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>2.5</b>	8. Maximum Percent Ash:  <b>0.1</b>
9. Million Btu per SCC Unit:  <b>152</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content-HHV.</b>	

**Segment Description and Rate:** Segment 2 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Natural gas</b>	
2. Source Classification Code (SCC): <b>1-01-006-04</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>2.158</b>	5. Maximum Annual Rate: <b>18,905</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,050</b>	
10. Segment Comment (limit to 200 characters): <b>Heat content - HHV. Sulfur content - 1 grain/100 cf</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 3 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Distillate fuel oil</b>	
2. Source Classification Code (SCC):  <b>1-01-005-01</b>	
3. SCC Units:  <b>Thousand gallons burned</b>	
4. Maximum Hourly Rate:  <b>16.022</b>	5. Maximum Annual Rate:  <b>140,350</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>0.5</b>	8. Maximum Percent Ash:  <b>0.1</b>
9. Million Btu per SCC Unit:  <b>138</b>	
10. Segment Comment (limit to 200 characters):  <b>Distillate fuel oil is used as a pilot fuel for startup, shutdown, and malfunction. Heat content-HHV</b>	



**Segment Description and Rate:** Segment 4 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>On-specification used oil</b>	
2. Source Classification Code (SCC): <b>1-01-013-02</b>	
3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>16.022</b>	5. Maximum Annual Rate: <b>14,035</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: <b>2.5</b>	8. Maximum Percent Ash: <b>0.9</b>
9. Million Btu per SCC Unit: <b>138</b>	
10. Segment Comment (limit to 200 characters): <b>Heat content - HHV. Limited to 10% annual heat input.</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 5 of 5

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Propane</b>	
2. Source Classification Code (SCC):  <b>1-01-010-02</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>24.431</b>	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:  <b>81</b>	
10. Segment Comment (limit to 200 characters):  <b>Used to light off ignitors.</b>	

**Segment Description and Rate:** Segment   of

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2			EL
PM			EL
PM10			NS
NOx			NS
CO			NS
VOC			NS
H133			NS
HAPS			NS

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>SO2</b>	
2. Total Percent Efficiency of Control:	<b>0 %</b>
3. Potential Emissions:	<b>6,080 lb/hour                      26,631 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor:	<b>2.75 lb/MMBtu</b>  Reference: FDEP Rule 62-296.405
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limits maximum sulfur content in fuel oil to 2.5%.</b>	

Emissions Unit Information Section 3 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>2.75 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>6,080 lb/hour</b>	<b>26,631 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during compliance test for PM and VE.</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Firing No. 6 fuel oil. 2. Rule 62-296.405(1)</b>		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>PM</b>	
2. Total Percent Efficiency of Control:	<b>0 %</b>
3. Potential Emissions:	<b>663.3 lb/hour                      1,210.5 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor: <b>0.3 lb/MMBtu</b>  Reference: <b>FDEP Rule 62-210.700</b>	
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>See Attachment BA-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Potential lb/hr - soot-blowing while oil firing. Potential TPY - 0.125 lb/MMBtu over 24 hr (0.1 during normal operations, 21 hr; 0.3 during soot blowing, 3 hr)</b>	

Emissions Unit Information Section 3 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.1 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>221.1 lb/hour</b>	<b>968.6 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>1. Based on oil-firing during normal operations 2. Rule 62-210.700</b>		

B.

1. Basis for Allowable Emissions Code: <b>Rule</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.3 lb/MMBtu</b>		
4. Equivalent Allowable Emissions:	<b>663.3 lb/hour</b>	<b>363.2 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Annual compliance test, EPA Method 5 or 17</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Based on boiler cleaning (soot-blowing) and load changes while oil firing (3 hours in 24 hours) Rule 62-210.700</b>		



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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 4

1.	Visible Emissions Subtype: <b>VE40</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>40</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>Annual compliance test EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. Visible emission limit at steady state 2. Rule 62-296.405(1) and OGC File No. 86-1577.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 2 of 4

1.	Visible Emissions Subtype: <b>VE60</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>60</b> %      Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>24</b> min/hour
4.	Method of Compliance: <b>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 3 hr in any 24-hr period, except, during the 3 hr per., four 6-min periods of unlimited capacity for boiler cleaning &amp; load-changing. Rule 62-210.700(3)</b>

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

**Visible Emissions Limitations:** Visible Emissions Limitation 3 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Not to exceed 2 hr in any 24-hr period for malfunctions. Rule 62-210.700(1).</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 4 of 4

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:           %           Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Excess emissions during startup, shutdown. Rule 62-210.700(2).</b>

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

**Continuous Monitoring System** Continuous Monitor 1 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>NOx</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>42</b> Serial Number: <b>42-45311-273</b>	
5. Installation Date: <b>20 Dec 1994</b>	
6. Performance Specification Test Date: <b>20 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 2 of 5

1. Parameter Code: <b>CO2</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>41 H</b> Serial Number: <b>41H-44973-273</b>	
5. Installation Date: <b>20 Dec 1994</b>	
6. Performance Specification Test Date: <b>20 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 3 of 5

1. Parameter Code: <b>VE</b>	2. Pollutant(s):
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>Durag</b> Model Number: <b>CEMOP-281</b> Serial Number: <b>29845</b>	
5. Installation Date: <b>20 Dec 1994</b>	
6. Performance Specification Test Date: <b>20 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor 4 of 5

1. Parameter Code: <b>EM</b>	2. Pollutant(s): <b>SO2</b>
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Monitor Manufacturer: <b>TECO</b> Model Number: <b>43 B</b> Serial Number: <b>43B-43145-274</b>	
5. Installation Date: <b>20 Dec 1994</b>	
6. Performance Specification Test Date: <b>20 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

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

**Continuous Monitoring System** Continuous Monitor 5 of 5

1. Parameter Code: <b>FLOW</b>	2. Pollutant(s):
3. CMS Requirement: [ <input checked="" type="checkbox"/> ] Rule [ <input type="checkbox"/> ] Other	
4. Monitor Information: Monitor Manufacturer: <b>United Sciences</b> Model Number: <b>Ultra Flow 100</b> Serial Number: <b>9303507</b>	
5. Installation Date: <b>20 Dec 1994</b>	
6. Performance Specification Test Date: <b>20 Dec 1994</b>	
7. Continuous Monitor Comment (limit to 200 characters): <b>40 CFR 72.6</b>	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ <input type="checkbox"/> ] Rule [ <input type="checkbox"/> ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	lb/hour		tons/year
	NO <sub>2</sub>			tons/year
5.	PSD Comment (limit to 200 characters):			
	<b>Baseline emissions not known.</b>			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>17 Aug 1995</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU2-L6</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L7</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
		<input type="checkbox"/> Not Applicable	



**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L10</u> <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU3-L13</u> <input type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required) <input checked="" type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: <u>BA-EU1-L14</u> <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU3-D**  
**EMISSION UNIT REGULATIONS**

## ATTACHMENT BA-EU3-D

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: Unit 3 - FPC Bartow

#### FDEP Rules:

##### Air Pollution Control-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

##### Stationary Sources-General:

- 62-210.700(1) - Malfunction only for FFGS
- 62-210.700(2) - FFSG; startup/shut down
- 62-210.700(3) - FFSG; sootblowing/load change
- 62-210.700(4) - Maintenance
- 62-210.700(6)

##### Acid Rain:

- 62-214.300 - Acid Rain Units (Applicability)
- 62-214.320 - Acid Rain Units (Application Shield)
- 62-214.330 - Compliance Options (if 62-214.430)
- 62-214.350(2),(3),(6) - Acid Rain Units (Certification)
- 62-214.370 - Revisions; corrections; (potentially applicable)
- 62-214.430 - Acid Rain Units (Compliance Options)

##### Stationary Sources-Emission Standards:

- 62-296.405(1)(a) - FFSG; VE
- 62-296.405(1)(b) - FFSG; PM
- 62-296.405(1)(c)1.j. - FFSG; Oil-SO<sub>2</sub> (general limit)
- 62-296.405(1)(e) - FFSG; Test Methods
- 62-296.405(1)(f)1.a.(i) - FFSG; Opacity CEMS exempted for oil/gas units
- 62-296.405(1)(f)1.b. - FFSG; SO<sub>2</sub> CEMS exempted for non-controlled units (oil/gas)
- 62-296.700(2)(a) - RACT; Emission Limitations PM
- 62-296.700(2)(b) - RACT; Visible Emissions
- 62-296.700(3) - Test Methods
- 62-296.700(5) - RACT; Circumvention

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

- 62-297.310(1) - Test Runs-Mass Emission
- 62-297.310(2)(b) - Operating Rate; other than CTs
- 62-297.310(3) - Calculation of Emission

- 62-297.310(4)(a) - Applicable Test Procedures; Sampling time
- 62-297.310(4)(b) - Sample Volume
- 62-297.310(4)(c) - Required Flow Rate Range-PM/H2SO4/F
- 62-297.310(4)(d) - Calibration
- 62-297.310(4)(e) - EPA Method 5-only
- 62-297.310(5) - Determination of Process Variables
- 62-297.310(6)(a) - Permanent Test Facilities-general
- 62-297.310(6)(c) - Sampling Ports
- 62-297.310(6)(d) - Work Platforms
- 62-297.310(6)(e) - Access
- 62-297.310(6)(f) - Electrical Power
- 62-297.310(6)(g) - Equipment Support
- 62-297.310(7)(a)2. - FFSG excess emissions
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4. - PM exemption if < 400 hrs/yr
- 62-297.310(7)(a)5. - PM exemption if < 200 hrs/6 month
- 62-297.310(7)(a)6. - FDEP Notification - 15 days
- 62-297.310(7)(a)9. - Waiver of Compliance Tests (fuel sampling)
- 62-297.310(7)(c) - Test Reports
- 62-297.310(8)

#### Federal Rules:

##### 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)(1)(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(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 72.30(a) - Requirements to Apply (operate)
- 40 CFR 72.30(c) - Requirements to Apply (reapply before expiration)
- 40 CFR 72.30(d) - Requirements to Apply (submittal requirements)
- 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

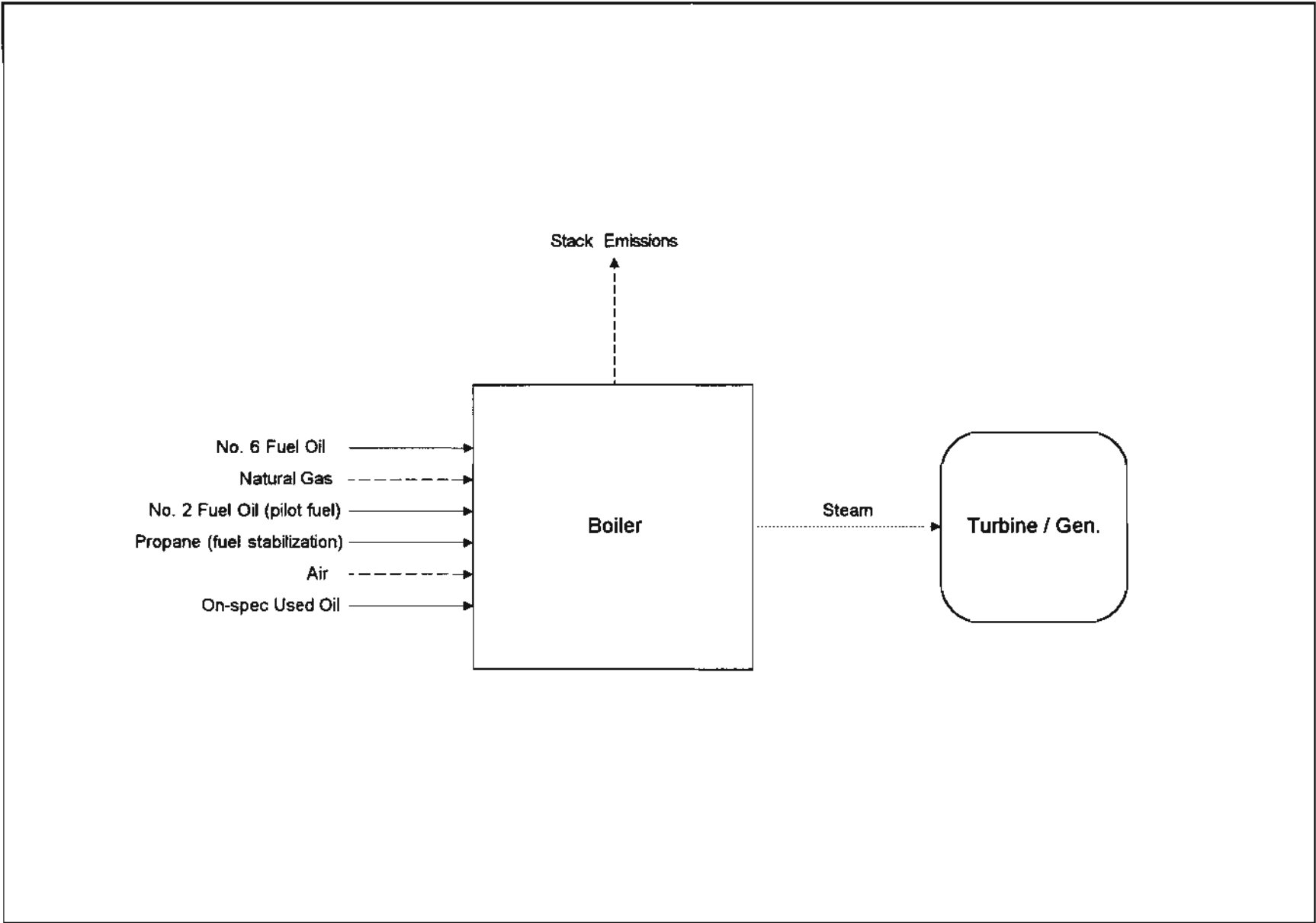
Monitoring Part 75:


- 40 CFR 75.5 - Prohibitions
- 40 CFR 75.10(a)(1) - Primary Measurement; SO<sub>2</sub>; except 75.11&.16; Subpart D
- 40 CFR 75.10(a)(2) - Primary Measurement; NO<sub>x</sub>; except 75.12&.17; Subpart E
- 40 CFR 75.10(a)(3)(i) - Primary Measurement; CO<sub>2</sub>; monitor
- 40 CFR 75.10(a)(4) - Primary Measurement; Opacity; except 75.14&.18
- 40 CFR 75.10(b) - Primary Measurement; Performance Requirements
- 40 CFR 75.10(c) - Primary Measurement; Heat Input; Appendix F
- 40 CFR 75.10(d) - Primary Measurement; Hourly Operating ; Opacity; SO<sub>2</sub>
- 40 CFR 75.10(f) - Primary Measurement; Minimum Measurement
- 40 CFR 75.10(g) - Primary Measurement; Minimum Recording
- 40 CFR 75.11(d) - SO<sub>2</sub> Monitoring; Gas- and Oil-fired units
- 40 CFR 75.11(e) - SO<sub>2</sub> Monitoring; Gaseous fuel firing
- 40 CFR 75.12(b) - NO<sub>x</sub> Monitoring; Determination of NO<sub>x</sub> emission rate;  
Appendix F
- 40 CFR 75.13(a) - CO<sub>2</sub> Monitoring; Continuous monitor
- 40 CFR 75.14(a) - Opacity Monitoring; Coal and oil units
- 40 CFR 75.20(a)(5) - Initial Certification Approval Process; Loss of Certification
- 40 CFR 75.20(b) - Recertification Procedures
- 40 CFR 75.20(c) - Certification Procedures
- 40 CFR 75.20(g) - Exceptions to CEMS; oil/gas/diesel; Addendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS;
- 40 CFR 75.21(b) - QA/QC; Opacity;
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 40 CFR 75.21(d) - QA/QC; Notification of RATA
- 40 CFR 75.21(e) - QA/QC; Audits
- 40 CFR 75.21(f) - QA/QC; CEMS
- 40 CFR 75.22 - Reference Methods
- 40 CFR 75.24 - Out-of-Control Periods; CEMS
- 40 CFR 75.30(a)(1) - General Missing Data Procedures; SO<sub>2</sub>
- 40 CFR 75.30(a)(2) - General Missing Data Procedures; flow
- 40 CFR 75.30(a)(3) - General Missing Data Procedures; NO<sub>x</sub>
- 40 CFR 75.30(a)(4) - General Missing Data Procedures; CO<sub>2</sub>
- 40 CFR 75.30(d) - General Missing Data Procedures; SO<sub>2</sub>

- 40 CFR 75.32
  - 40 CFR 75.33
  - 40 CFR 75.35
  - 40 CFR 75.36
  - 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);(e)
  - 40 CFR 75.56
  - 40 CFR 75.60
  - 40 CFR 75.61
  - 40 CFR 75.63
  - 40 CFR 75.64(a)
  - 40 CFR 75.64(b)
  - 40 CFR 75.64(c)
  - 40 CFR 75.64(d)
  - 40 CFR 75.65
  - Appendix A-3.
  - Appendix A-4.
  - Appendix A-5.
  - Appendix A-6.
  - Appendix B
  - Appendix C-1.
  - Appendix C-2.
  - Appendix F
  - Appendix G-2.
  - Appendix H
  - 40 CFR Part 77.3
  - 40 CFR Part 77.5(b)
  - 40 CFR Part 77.6
- Monitoring Data Availability for Missing Data
  - Standard Missing Data Porcedures
  - Missing Data Procedures for CO2
  - Missing Data Procedures for Heat Input
  - Monitoring Plan (revisions)
  - Recordkeeping-general
  - Recordkeeping-operating parameter
  - Recordkeeping-SO2
  - Recordkeeping-NOx
  - Recordkeeping-CO2
  - Recordkeeping-Opacity
  - Recordkeeping; Special Situations (gas & oil firing)
  - Certification; QA/QC Provisions
  - Reporting Requirements-General
  - Reporting Requirements-Notification cert/recertification
  - Reporting Requirements-Certification/Recertification
  - Reporting Requirements-Quarterly reports; submission
  - Reporting Requirements-Quarterly reports; DR statement
  - Rep. Req.; Quarterly reports; Compliance Certification
  - Rep. Req.; Quarterly reports; Electronic format
  - Opacity Reports
  - Performance Specifications
  - Data Handling and Acquisition Systems
  - Calibration Gases
  - Certification Tests and Procedures
  - QA/QC Procedures
  - Missing Data; SO2/NOx for controlled sources
  - Missing Data; Load-Based Procedure; NOx & flow
  - Conversion Procedures
  - Determination of CO2; from combustion sources
  - Traceability Protocol
  - Offset Plans (future)
  - Deductions of Allowances (future)
  - Excess Emissions Penalties SO2 and NOx

**ATTACHMENT BA-EU3-L1**

**PROCESS FLOW DIAGRAM**



<p><b>Process Flow Legend</b></p> <p>.....▶ Steam Flow</p> <p>- - - - -▶ Gas Flow</p> <p>————▶ Solid / Liquid Flow</p>	<p>Florida Power Corporation, Bartow Plant Process Flow Diagram</p>	<p>Emission Unit: Boiler No. 3</p> <p>Process Area: Overall Plant</p> <p>Filename: FPCBA.VSD</p> <p>Latest Revision Date: 6/1/96 12:16 PM</p>	 <p><b>KBN</b> Engineering and Applied Sciences, Inc.</p>
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**ATTACHMENT BA-EU3-L2**  
**FUEL ANALYSIS OR SPECIFICATION**

**Attachment BA-EU3-L2**

**Fuel Analysis**

**Natural Gas Analysis**

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
Relative density	0.58 (compared to air)	
heat content	950 - 1124 Btu/cu ft.	
% sulfur	0.43 grains/CCF <sup>1</sup>	1 grain/100 CF
% nitrogen	0.8% by volume	
% ash	negligible	

Note: The values listed are "typical" values based upon information supplied to FPC by Florida Gas Transmission (FGT). However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data from laboratory analysis

**Attachment BA-EU3-I2**

**Fuel Analysis**

**No. 6 Fuel Oil**

<u>Parameter</u>	<u>Typical Value</u>
API gravity @ 60 F	8 <sup>1</sup>
Relative density	8.2 lb/gal <sup>2</sup>
Heat content	18,300 Btu / lb (LHV)
% sulfur (max.)	2.5 <sup>3</sup>
% nitrogen	0.25 - 0.50
% ash	0.06 - 0.10

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**Attachment BA-EU3-I2**

**Fuel Analysis**

**No. 2 Fuel Oil**

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	30 <sup>1</sup>	-
Relative density	7.1 lb/gal <sup>2</sup>	
Heat content	19,500 Btu / lb (HHV)	
% sulfur	0.04 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.1 <sup>1</sup>

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**Attachment BA-EU3-L2**

**Fuel Analysis**

**On-Spec. Used Oil**

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	28 <sup>1</sup>	-
Relative density	7.4 lb/gal <sup>2</sup>	-
Heat content	18,700 Btu / lb (HHV)	-
% sulfur	0.3 - 0.5 <sup>2</sup>	2.5 <sup>3</sup>
% nitrogen	0.3	-
% ash	0.4 - 0.9	-

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**Attachment BA-EU3-L2**

**Fuel Analysis**

**Propane Analysis**

<u>Parameter</u>	<u>Typical Value</u>
heat content	81 Btu/gal
% sulfur	negligible
% nitrogen	0.8% by volume
% ash	negligible

**ATTACHMENT BA-EU3-L4**  
**DESCRIPTION OF STACK SAMPLING FACILITIES**

## ATTACHMENT BA-EU3-L4

### Description of Stack Sampling Facilities

The Bartow Plant Steam Generator Unit No. 3 is required by Permit AO52-216413 to perform annual stack testing in accordance with standard EPA reference methods. Pursuant to FAC 62-297.345, the annual stack test required is performed with the required stack sampling facilities. The unit is currently not operating since it has been placed on long-term reserve shutdown. As specified by rule, the permanent test facilities must meet the following specifications before the next stack test:

- The sampling ports have a minimum effective diameter of 3 inches.
- The location of the sampling ports meet FAC 297-345 (3)(a)(3) requirements (i.e., 2 stack diameters downstream and 0.5 stack diameters upstream of flow disturbances).
- At least two sampling ports, 90 degrees apart have been installed on the circular stack.
- The working platform is at least 24 square feet in area, at least three feet wide, extends 180 degrees around the stack, has safety rails, toeboards, and a hinged floor opening attached to it. There are no obstructions 14 inches below the port and 6 inches on either side of the port.
- The platform access ladder is equipped with a safety cage.



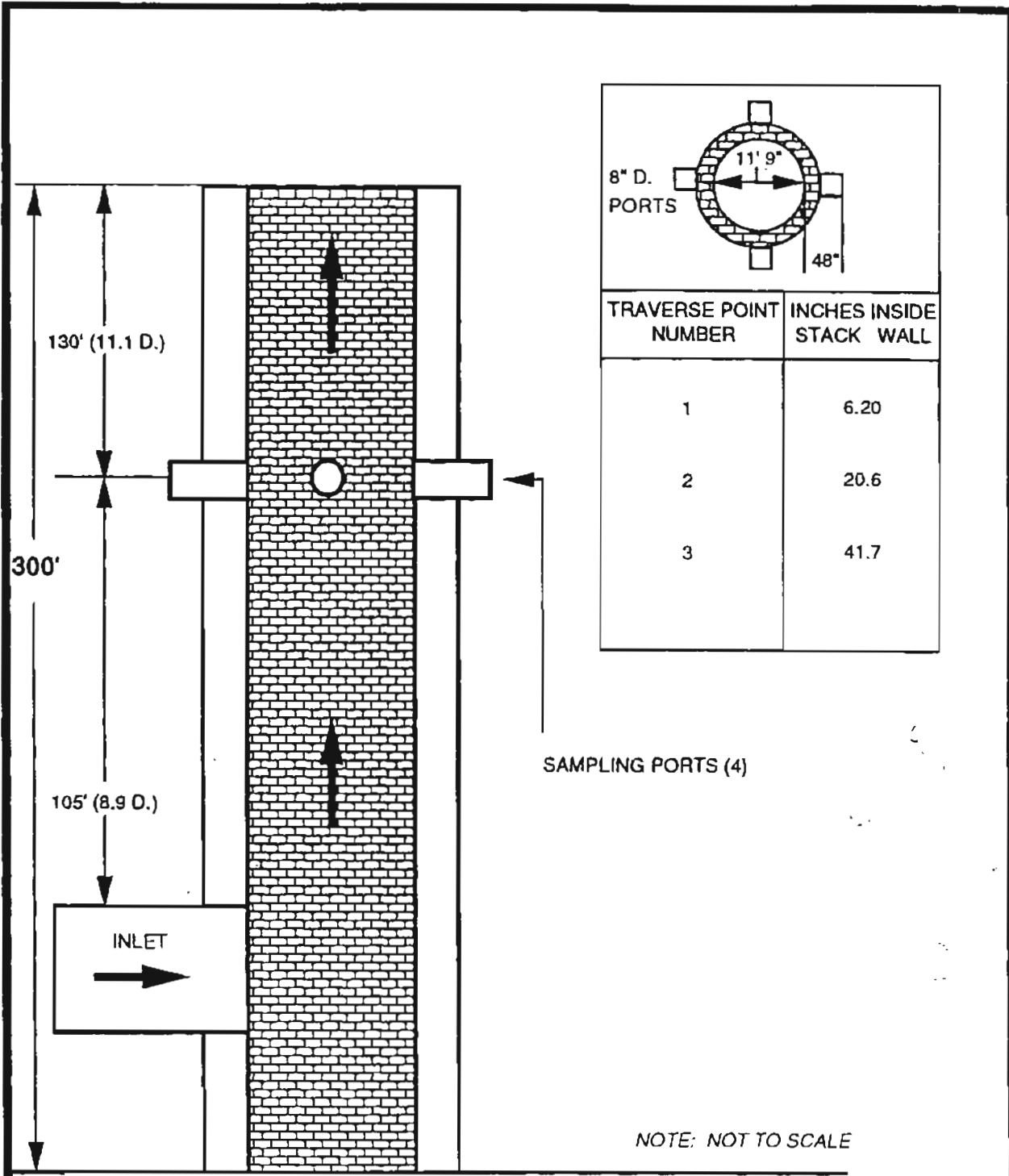
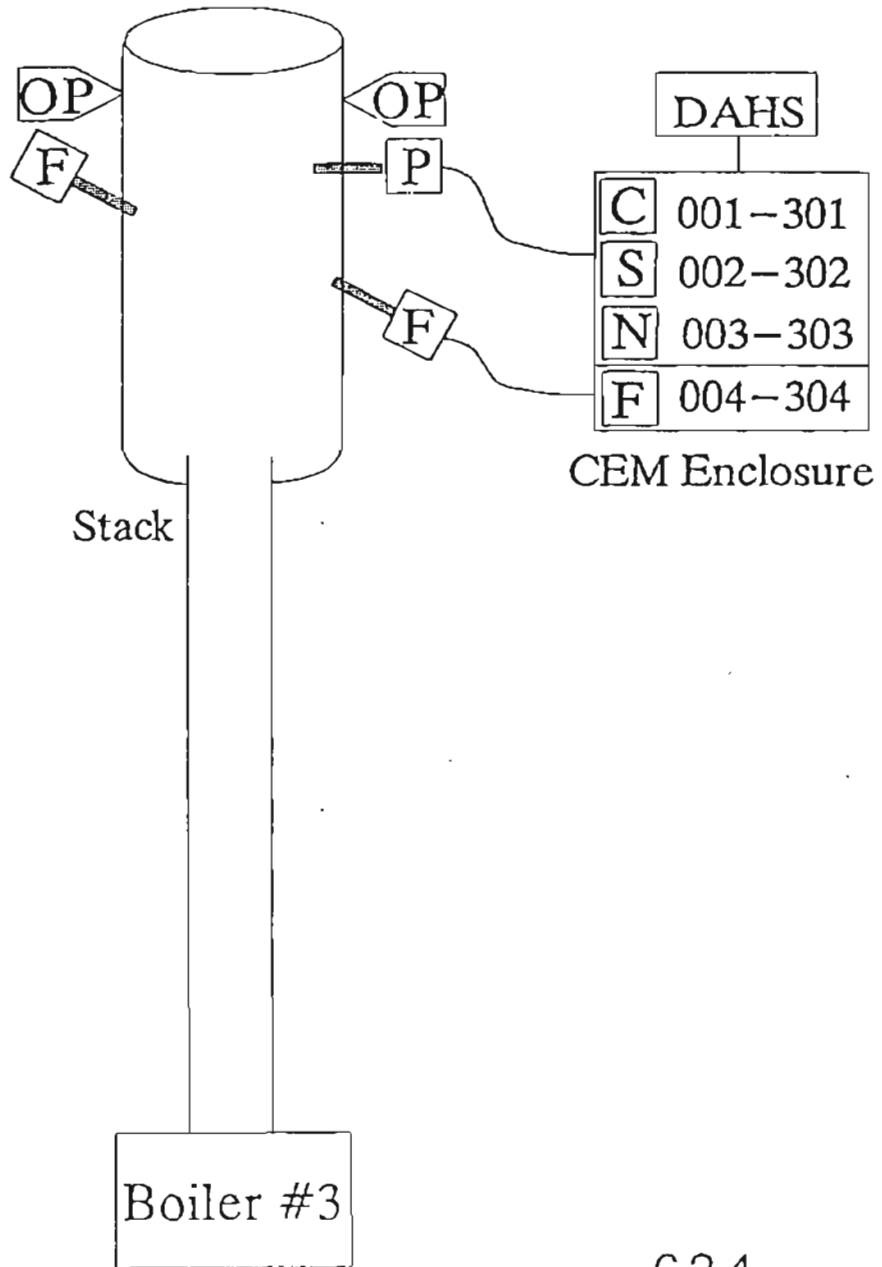


FIGURE 1.  
 OUTLET STACK SCHEMATIC  
 BARTOW UNIT 3  
 FLORIDA POWER CORPORATION  
 ST PETERSBURG, FLORIDA

ACE

AIR CONSULTING  
 AND ENGINEERING, INC.

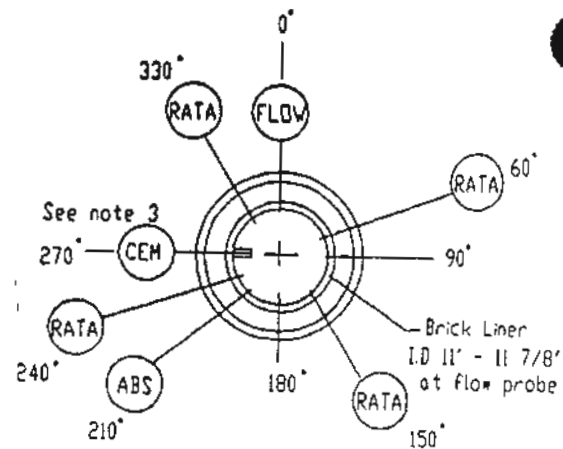
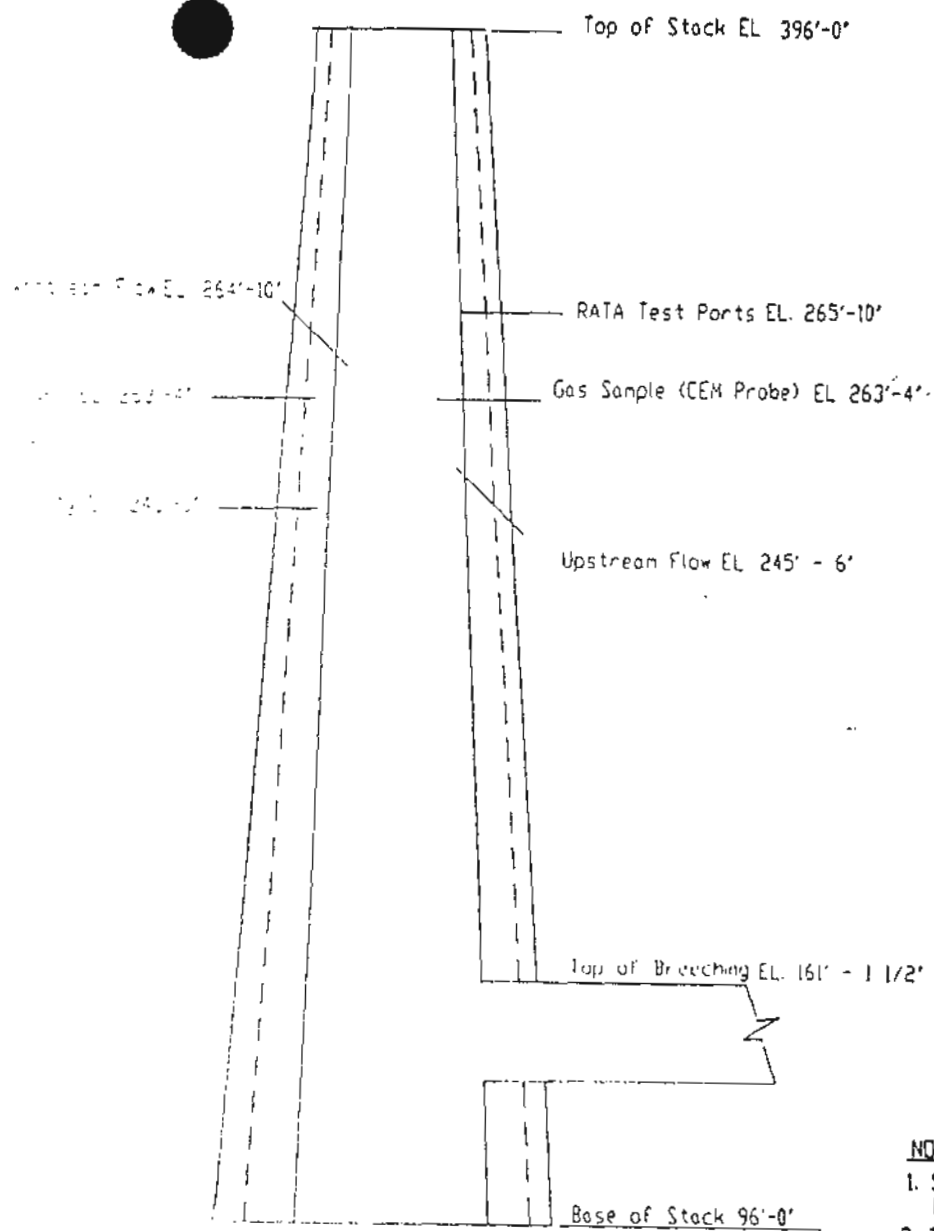
BARTOW Unit No. 3  
Florida Power Corp., St. Petersburg, Fl  
EPA Monitoring Plan Location Information (Part 2)



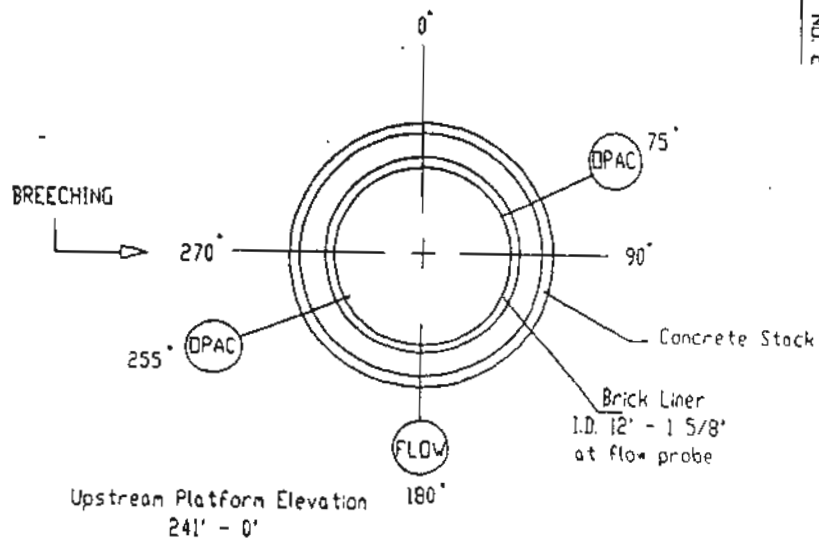
ORIS code : 634

NADB Boiler ID : \*\*3

BEST AVAILABLE COPY



Downstream Platform Elevation  
261' - 10'



NOTES

1. STACK LINER CROSS SEC. AREA AT FLOW PROBE ELEVATION IS 114.3 SQFT.
2. TOP OF STACK LINER CROSS SEC. AREA IS 95.03 SQFT.
3. CEM MEASUREMENT POINT IS > 1.0 METER FROM LINER WALL.
4. ABS = ABSOLUTE PRESSURE PORT

FLORIDA POWER CORPORATION BARTOW STATION UNIT NO. 3	
DRIS NO.	634
NADB NO.	**3

ATTACHMENT NO. 2

**ATTACHMENT BA-EU3-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**

**ATTACHMENT BA-EU3-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**  
**MINIMIZING EXCESS EMISSIONS**

Startup of the fossil-fuel boilers begins when fuel (No. 2 or No. 6 fuel oil) is introduced into one or more burners within the boiler and lighted (commencement of combustion). Startup is complete and steady-state operation begins when the combustion process has stabilized and the megawatt load on the unit is stable and above 10 percent load.

Shutdown of the fossil-fuel boilers begins when unit megawatt load is decreased to below 10 percent of maximum and continues until the final burner gun is removed from service.

Emissions may be detected during all modes of boiler operation by various continuous emissions monitors. Continuous monitors are currently in place for NO<sub>x</sub>, CO<sub>2</sub>, and opacity. Audible and visual alarms are activated whenever the permitted value for opacity is approached.

Countermeasures which may be taken in the event of excess emissions include, but are not limited to:

- burner elevation loading
- proper excess air adjustments
- recognizing and removal of faulty burners
- fuel oil temperature adjustments
- proper and timely operation of boiler cleaning devices
- removal of the unit from system-dispatch mode (load control)
- reduction of unit megawatt load
- stopping and restarting of boiler cleaning devices
- lowering load ramp rate
- pressure rate changes
- placing boiler controls on manual
- adjusting burner dampers to increase windbox/furnace air pressure

Knowledge of the appropriate countermeasures to take when excess emissions occur is a part of the routine operator training for those who operate the boilers. Topics include current permit limits,

maximum allowable duration of excess emissions, appropriate countermeasures for excess emissions, duty to notify, and fuels and combustion training.

**ATTACHMENT BA-EU3-L7**  
**OPERATION AND MAINTENANCE PLAN**

**[See Attachment BA-EU3-L12, Air Operating Permit No. AO52-216413,  
Specific Condition No. 15]**

**ATTACHMENT BA-EU3-L10**  
**ALTERNATIVE METHODS OF OPERATION**



## ATTACHMENT BA-EU3-L10

### ALTERNATIVE METHODS OF OPERATION

The Steam Generator Unit No. 3 is fired with new No. 6 fuel oil having a maximum sulfur content not to exceed 2.5% by weight, on-spec used oil, and, as an alternate fuel, natural gas at a maximum rate of 2.0 million cubic feet per hour. This unit also uses No. 2 fuel oil as an ignitor fuel during startup and propane for flame stabilization.

**ATTACHMENT BA-EU3-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



# Department of Environmental Protection

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Virginia B. Wetherell  
Secretary

AUG 16 1995

CERTIFIED MAIL

Mr. W. J. Pardue, Manager  
Environmental Programs  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, Florida 33733

RECEIVED

AUG 17 1995

Environmental Svcs  
Department

Dear Mr. Pardue:

Re: Air Operation Permit Amendment  
FPC Bartow Plant Unit 3  
(Permit A052-216413)

On June 26, 1995, the Department received a request to amend the above permit. The requested amendment consists of corrections to the permitted natural gas firing rate to reflect the design rate. We have reviewed this request and have no objections to the requested corrections. Therefore, permit A052-216413 is hereby amended as follows:

Page 1 of 9 Description

From:

For the operation of Bartow Unit No. 3, a fossil fuel fired electric utility steam generator rated at 225 MW/hour. The unit is fired with No. 6 fuel oil, with a maximum sulfur content of 2.5% by weight, at a maximum heat input rate of 2,211 MMBtu/hour (351 BBL/hour, 14,742 gallons/hour). As an alternate fuel when available, the unit can also be fired on natural gas at a maximum rate of  $2 \times 10^6$  ft<sup>3</sup>/hour.

To:

For the operation of Bartow Unit No. 3, a fossil fuel fired electric utility steam generator rated at 225 MW/hour. The unit is fired with No. 6 fuel oil, with a maximum sulfur content of 2.5% by weight, at a maximum heat input rate of 2,211 MMBtu/hour or natural gas at a maximum heat input rate of 2,266 MMBtu/hour.

Page 2 of 9      Specific Condition No. 4

From:

4. This boiler shall be fired with No. 6 fuel oil, with natural gas as an alternate fuel when available. The maximum heat input rate to this boiler shall not exceed 2,211 MMBtu/hr (14,742 gallons/hour when firing No. 6 fuel oil). If firing 100% natural gas, the maximum heat input rate shall not exceed 2,100 MMBtu/hr (2.0 MMCF/hour).

[Previous permits & information supplied w/ application]

To:

4. This boiler is permitted to fire No. 6 fuel oil and/or natural gas. The maximum heat input rate to this boiler shall not exceed the following:

- A. 2,211 MMBtu/hr when firing No. 6 fuel oil alone;
- B. 2,266 MMBtu/hr when firing natural gas alone;
- C. 2,266 MMBtu/hour when firing No. 6 fuel oil and natural gas together, with a maximum of 2,221 MMBtu/hour coming from No. 6 fuel oil.

[Previous permits and renewal application]

Page 6 of 9      Specific Condition No. 15 A. 1. and A. 3.

From

15. The following is the specified Operation and Maintenance Plan for Particulate Control as required by Rule 17-296.700(6), F.A.C. (Particulate Matter RACT).

A. Process Parameters (Rule 17-296.700(6)(d), F.A.C.)

- |                      |   |
|----------------------|---|
| 1. Heat Input Rate:  | 2,211 MMBtu/hour (maximum)  |
| 2. Fuel:             | No. 6 Fuel oil with a max. sulfur content of 2.5% (also natural gas when available).              |
| 3. Fuel Firing Rate: | 14,742 gallons/hour (351 BBL/hour) of No. 6 oil (maximum),<br>2.0 MMCF/hour of natural gas (max.) |

To

15. The following is the specified Operation and Maintenance Plan for Particulate Control as required by Rule 17-296.700(6), F.A.C. (Particulate Matter RACT).

A. Process Parameters (Rule 17-296.700(6)(d), F.A.C.)

1. Heat Input Rate: 2,266 MMBtu/hour (maximum)
2. Fuel: No. 6 Fuel oil with a max. sulfur content of 2.5% (also natural gas when available).
3. Fuel Firing Rate: 14,742 gallons/hour (351 BBL/hour) of No. 6 oil (maximum),  
2.2 MMCF/hour of natural gas (max.)

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

The Petition shall contain the following information;

- (a) The name, address, and the telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner;
- (e) A statement of facts which petitioner contends warrants reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's proposed action.

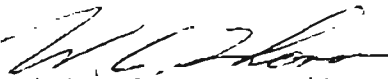
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit amendment. Persons whose substantial interests will be affected by any decision of the Department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

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

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

This letter must be attached to and becomes a part of permit A052-216413. If you have any questions please call Mr. David Zell of my staff at (813) 744-6100, extension 118.

Sincerely,

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

DRZ/

copy to:  
Air Quality Division, Pinellas Co. Dept. of Environmental Mgmt.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on AUG 16 1995 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED,  
on this date, pursuant to Section  
120.52(11), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

Marilyn Quispe  
Clerk

AUG 16 1995  
Date





# Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Virginia B. Wetherell, Secretary

**PERMITTEE:**

Florida Power Corporation  
Bartow Plant  
P.O. Box 14042  
St. Petersburg, FL 33733

**PERMIT/CERTIFICATION:**

Permit No: A052-216413  
County: Pinellas  
Expiration Date: 09/16/97  
Project: Steam Generator  
Bartow Unit No. 3

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

For the operation of Bartow Unit No. 3, a fossil fuel fired electric utility steam generator rated at 225 MW/hour. The unit is fired with No. 6 fuel oil, with a maximum sulfur content of 2.5% by weight, at a maximum heat input rate of 2,211 MMBtu/hour (351 BBL/hour, 14,742 gallons/hour). As an alternate fuel when available, the unit can also be fired on natural gas at a maximum rate of  $2 \times 10^6$  ft<sup>3</sup>/hour.

**Location:** Bartow Plant, Weeden Island, St. Petersburg

**UTM:** 17-342.44 E      3082.7 N      **NEDS No:** 0011      **Point ID No:** 03

Replaces Permit No.: A052-137123

(Note: This permit also replaces the 1st version of A052-216413 issued January 26, 1993)

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216413  
County: Pinellas  
Project: Bartow Unit 3

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions. [Rule 17-4.160, F.A.C.].
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law. [Rule 17-210.300, F.A.C.].

Operational and Emission Limitations

3. This boiler is permitted for continuous operation (8,760 hours per year). [As requested by applicant].
  4. This boiler shall be fired with No. 6 fuel oil, with natural gas as an alternate fuel when available. The maximum heat input rate to this boiler shall not exceed 2,211 MMBtu/hr (14,742 gallons/hour when firing No. 6 fuel oil). If firing 100% natural gas, the maximum heat input rate shall not exceed 2,100 MMBtu/hr (2.0 MMCF/hour). [Previous permits and information supplied with application].
  5. Sulfur content of the No. 6 fuel oil fired in this boiler shall not exceed 2.5% sulfur by weight. In no case shall sulfur dioxide emissions from this boiler exceed 2.75 pounds/MMBtu of heat input nor 6,080 pounds per hour at maximum heat input rate. [Previous permits and Rule 17-296.405(1)(c)l.k., F.A.C.].
  6. Particulate emissions from this boiler shall be limited as follows:
    - A. During normal operations, particulate emissions shall not exceed 0.10 pounds/MMBtu, 221.1 pounds per hour, nor 968.6 tons per year;
    - B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 663.3 pounds per hour, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.
- [Rules 17-296.702(2)(a) and 17-210.700(3), F.A.C., and previous permit].

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216413  
County: Pinellas  
Project: Bartow Unit 3

SPECIFIC CONDITIONS:

7. Visible emissions from this boiler shall be limited as follows:
- A. During normal operations, visible emissions shall not exceed 40% opacity;
  - B. During boiler cleaning (sootblowing) and load changes visible emissions shall not exceed 60% opacity, provided that the duration of such excess emissions shall not exceed a total of 3 hours in any 24 hour period, and provided that best operational practices are adhered to minimize the magnitude and duration of the excess emissions.

[Rules 17-296.702(2)(b), 17-296.405(1)(a) and 17-210.700(3), F.A.C. and OGC Order File No. 86-1577 December 11, 1986].

8. Excess emissions resulting from startup or shutdown are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized. Excess emissions resulting from malfunctions are permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions is minimized, but in no case exceeds two hours in any 24-hour period unless specifically authorized by the Department for a longer duration. Excess emissions which are caused entirely or in part by poor maintenance, poor operations, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction are prohibited. (See also Specific Condition No. 19).

[Rules 17-210.700(1) and (2), F.A.C.].

Testing and Compliance Documentation Requirements

9. Test the emissions from the boiler for the following pollutants annually \* within one month of the base date of April 28. A report of the test data shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management within 45 days of the testing. The test report shall include a statement of the boiler O<sub>2</sub> levels during the test, the fuel firing rate (in gallons/hour and MMBtu/hr) and the results of the fuel oil analysis (See Specific Condition No. 12).

(X) Particulate matter (PM) (steady state and sootblowing)

(X) Visible emissions (VE) (steady state and sootblowing)

(continued)

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216413  
County: Pinellas  
Project: Bartow Unit 3

SPECIFIC CONDITIONS:

9. (continued)

(\* Note: This source was authorized by Order of the Department Secretary dated December 11, 1986 (OGC File No. 86-1577) to test particulate matter emissions and visible emissions annually with a 40% opacity limit. Failure of this source to meet either the particulate standard or the opacity standard in the future shall constitute grounds for revocation of this authorization and a return to more frequent testing.)  
[Rules 17-297.340 and 17-297.570, F.A.C. and OGC Order No. 86-1577].

10. The permittee shall notify the Air Quality Division of the Pinellas County Department of Environmental Management in writing at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.  
[Rule 17-297.340(1)(i), F.A.C.].

11. Compliance with the emission limitations of Specific Condition Nos. 5, 6 and 7 shall be determined using the following methods contained in Rule 17-297, F.A.C. or in 40 CFR 60, Appendix A and adopted by reference in Rule 17-297, F.A.C.:

<u>Pollutant</u>	<u>Test Method</u>
Visible emissions	DER Method 9
Particulate Matter	EPA Method 5 or EPA Method 17 (only if stack temperature is less than 375 °F)
Sulfur dioxide (& %S)	Fuel analysis (EPA Method 19)

The minimum requirements for stationary point source emissions test procedures and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60, Appendix A.

12. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated during the particulate and VE compliance tests based on analysis of an as-fired oil sample taken from this unit during the testing. Results of this analysis, and calculation of the resulting pound/MMBtu sulfur dioxide emission rate, shall be submitted with the test report.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: A052-216413  
County: Pinellas  
Project: Bartow Unit 3

SPECIFIC CONDITIONS:

13. Documentation of ongoing compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 5 shall be demonstrated through fuel analysis on a monthly basis. The permittee shall take a daily as-fired fuel oil sample for each day of operation and, on a monthly basis, analyze the monthly composite fuel oil sample for sulfur content and heat content (See O&M Plan, Specific Condition No. 15.B.5.). Based on the results of this monthly analysis, the permittee shall calculate the monthly average pound/MMBtu sulfur dioxide emission rate. The fuel analysis results and the monthly sulfur dioxide emission rate calculation shall be recorded in a permanent form suitable for inspection by the Department upon request, and shall be retained for at least a two year period. (See also Specific Condition No. 17 for quarterly reporting requirements.)  
[Rule 17-4.070(3), F.A.C.].

14. Approved compliance testing of emissions must be conducted while firing No. 6 fuel oil operating within 90-100% of the permitted rates as stated in the Process Parameters Section of Specific Condition No. 15. Based on the rate at which the April 28 and 29, 1992 stack test was conducted, the maximum permitted fuel oil firing rate for this boiler is currently limited to 12,310 gallons per hour (1,846.5 MMBtu/hr heat input rate). Testing of emissions to show compliance shall be conducted within 90-100% of the currently permitted fuel firing rate. A compliance test submitted at an operating rate less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher rate, is submitted. Any time the permitted rate of the source is exceeded by more than 10% a compliance test shall be performed within 30 days of initiation of the higher rate and the test results shall be submitted within 45 days of testing. Acceptance of the test by the Department will constitute an amended permit at the higher rate, not to exceed a maximum rate of 14,742 gallons/hour (2,211 MMBtu/hr heat input rate). Failure to submit the fuel oil firing rate or operating at conditions during the test which do not reflect normal operating conditions may invalidate the test and fail to provide reasonable assurance of compliance.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: A052-216413  
County: Pinellas  
Project: Bartow Unit 3

SPECIFIC CONDITIONS:

Operation and Maintenance Plan

15. The following is the specified Operation and Maintenance Plan for Particulate Control as required by Rule 17-296.700(6), F.A.C. (Particulate Matter RACT).

A. Process Parameters (Rule 17-296.700(6)(d), F.A.C.)

1. Heat Input Rate: 2,211 MMBtu/hour (maximum)
2. Fuel: No. 6 Fuel oil with a max. sulfur content of 2.5% (also natural gas when available).
3. Fuel Firing Rate: 14,742 gallons/hour (351 BBL/hour) of No. 6 oil (maximum), 2.0 MMCF/hour of natural gas (max.)
4. Ash content: as sampled
5. Steam Temperature: 1000 °F
6. Steam Pressure: 2,050 psi
7. Steam Flow Rate: 1,423,500 pounds/hour
8. Stack Height 300 feet
9. Boiler Manufacturer: Combustion Engineering
10. Burner Arrangement: Tangential fired

B. Inspection and Maintenance Program

1. Scheduled during major outages: Boilers, controls, auxiliaries, burners and duct work are to be inspected and repaired as necessary. All parts are to be inspected, cleaned and replaced as necessary.
2. Scheduled during non-peak load periods in Spring and Fall: This schedule is affected by forced outage requirements.
3. The following operating parameters are to be continuously monitored and maintained at appropriate levels to produce efficient fuel combustion:
  - a. fuel flow rate
  - b. fuel temperature
  - c. fuel pressure
  - d. air flow rate
  - e. steam flow rate
  - f. steam temperature
  - g. steam pressure

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: A052-216413  
County: Pinellas  
Project: Bartow Unit 3

**SPECIFIC CONDITIONS:**

15. (continued)

- 4. Plant operators are to monitor, adjust and record the following operating parameters at least once per day to assure efficient plant operation:
  - a. temperatures (superheat, reheat, and fuel)
  - b. flows (steam, feedwater, fuel)
  - c. unit load
- 5. Fuel oil quality is to be checked prior to delivery and a daily sample taken each day that the facility is operated for a monthly composite analysis. Fuel oil analysis (by ASTM Methods) is to be analyzed for the following:
  - a. heat content (Btu/gallon)
  - b. sulfur content (%S by weight)
  - c. density
  - d. API gravity

C. Recordkeeping (Rule 17-296.700(6)(e), F.A.C.)  
 Records of inspection, maintenance, and performance parameters shall be retained for a minimum of two years and shall be made available to the Department or the Pinellas County Department of Environmental Management upon request.

{Rule 17-296.700(6), F.A.C.}.

16. Based on the original permit application received by the Department and information submitted by the permittee with subsequent applications, the following are the maximum potential emission rates from this source based upon which this permit is issued:

Potential Emissions

Pollutant	pounds/hour	tons/year
Particulate (PM)	221.1	968.6
Sulfur dioxide (SO2)	6,080.3	26,631.7
Carbon Monoxide (CO)	73.7	322.9
Nitrogen Oxides (NOx)	619.2	4,818.0
Volatile Organics (VOC)	11.2	49.1

**PERMITTEE:**

Florida Power Corp.  
Bartow Plant  
St. Petersburg

**PERMIT/PROJECT:**

Permit No.: AO52-216413  
County: Pinellas  
Project: Bartow Unit 3

**SPECIFIC CONDITIONS:**

**Reporting Requirements**

17. Compliance with the fuel oil sulfur content and sulfur dioxide emissions limitations of Specific Condition No. 7 shall be documented by the permittee through submittal of quarterly reports of the Bartow Plant monthly average fuel oil sulfur content, heat content, and the resulting sulfur dioxide emission rate in pounds/MMBtu of heat input. These quarterly reports shall be submitted within 30 days of the end of each calendar quarter to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management. [Rule 17-4.070(3), F.A.C.]

18. Submit to the Southwest District Office of the Department and to the Pinellas County Department of Environmental Management each calendar year on or before March 1, an emission report for this source for the preceding calendar year containing the following information pursuant to Subsection 403.061(13), F.S.:

- A. Annual amount of materials and/or fuels utilized;
- B. Annual emissions of PM, SO<sub>2</sub>, NO<sub>x</sub> and hydrocarbons based on fuel use, operating hours and fuel analysis. Until further notice by the Department the permittee shall calculate PM emissions by multiplying the PM stack test results by the hours of operation. Other annual emissions shall be determined by multiplying the annual fuel use times the following emission factors:

Emission Factors

Pollutant	No. 6 Oil (lb/1000 gal)	Natural Gas (lb/MMCF)
SO <sub>2</sub>	157(S)	0.6
CO	5	5
NO <sub>x</sub>	42	550
VOC	0.76	1.4

(Provide calculation sheets to document calculation method)

- C. Any changes in the information contained in the permit application.



PERMITTEE:

Florida Power Corp.  
Bartow Plant  
St. Petersburg

PERMIT/PROJECT:

Permit No.: AO52-216413  
County: Pinellas  
Project: Bartow Unit 3

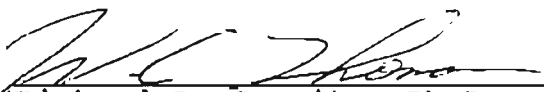
SPECIFIC CONDITIONS:

19. Excess emission notification. In the event that the permittee is unable to comply with any of the conditions of the permit, the permittee shall immediately notify the Air Quality Division of the Pinellas County Department of Environmental Management. Notification shall be conducted in accordance with General Condition No. 8 of this permit. (See attached General Conditions.) In the case of excess emissions resulting from malfunctions, a full written report on the malfunction shall be submitted in a quarterly report if so requested by the Department.  
[Rule 17-210.700(6), F.A.C.].

Permit Renewal

20. Three applications to renew this operating permit shall be submitted to the Southwest District Office of the Department, with an additional copy sent to the Air Quality Division of the Pinellas County Department of Environmental Management, no later than July 17, 1997 (60 days prior to the expiration date of this permit).  
[Rule 17-4.090(1), F.A.C. and Pinellas County Ordinance 89-70, as amended, Subpart 2.210].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
151 Richard D. Garrity, Ph.D.  
Director of District Management  
Southwest District

ATTACHMENT - GENERAL CONDITIONS:

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

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit;
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- ( ) Compliance with New Source Performance Standard

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
  1. the date, exact place, and time of sampling or measurements;
  2. the person responsible for performing the sampling or measurements;
  3. the dates analyses were performed;
  4. the person responsible for performing the analyses;
  5. the analytical techniques or methods used;
  6. the results of such analyses.

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

BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of: )  
 )  
Petition for Reduction in )  
Semiannual Particulate )  
Emissions Compliance Testing, ) OGC File No. 86-1577  
Bartow Unit No. 3; )  
Florida Power Corporation )  
 )  
Petitioner. )  
\_\_\_\_\_ )

ORDER

On February 18, 1986, the Petitioner, Florida Power Corporation, filed a Petition for Reduction in the Frequency of Particulate Emissions Compliance Testing pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1. for the following fossil fuel steam generating unit:

Bartow Unit No. 3

Pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1., and by Order dated November 7, 1982, Petitioner has conducted semiannual particulate emission compliance tests. Florida Administrative Code Rule 17-2.600(5)(b)1. provides that the Department may reduce the frequency of particulate testing upon a demonstration that the particulate standard of 0.1 pound per million Btu heat input has been regularly met. The petition and supporting documentation submitted by Petitioner indicate that, since January 26, 1982, Petitioner has regularly met the particulate standard. It is therefore,

ORDERED that the Petition for Reduction in the Frequency of Particulate Emissions Compliance Testing is GRANTED. Petitioner may immediately commence testing on an annual basis. Test results from the first regularly scheduled compliance test conducted in FY 87 (October 1, 1986 - September 30, 1987), provided the results of that test meet the particulate standard and the 40% opacity standard, shall be accepted as results from the first annual test. Failure of Bartow Unit No.3 to meet

either the particulate standard or the 40% opacity standard in the future shall constitute grounds for revocation of this authorization.

Persons whose substantial interests are affected by the above proposed agency action have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on the proposed action. The Petition must conform to the requirements of Chapters 17-103 and 28-5, Florida Administrative Code, and must be filed (received) with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within fourteen (14) days of publication of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the proposed agency action. Persons whose substantial interests will be affected by any decision of the Department have the right to intervene in the proceeding. A petition for the intervention must be filed pursuant to Model Rule 28-5.207, Florida Administrative Code, at least five (5) days before the final hearing and be filed with the Hearing Officer if one has been assigned at the Division of Administrative Hearings, Department of Administration, 2009 Apalachee Parkway, Tallahassee, Florida 32301. If no Hearing Officer has been assigned, the petition is to be filed with the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Failure to petition to intervene within the allowed time frame constitutes a

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing ORDER has been furnished by United States Mail to J.A. Hancock, Vice President, Fossil Operations, Florida Power Corporation, Post Office Box 14042, St. Petersburg, Florida 33733; on this 19 day of December, 1986, in Tallahassee, Florida.



E. Gary Early  
Assistant General Counsel

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Telephone (904)488-9730

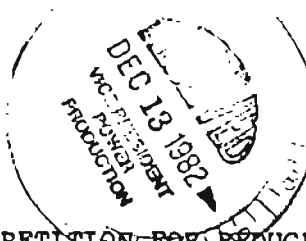
BEFORE THE STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of:

OGC File No.: 82-0564

FLORIDA POWER CORPORATION,  
Bartow Units 1 and 3,  
Pinellas County,

Petitioner.



ORDER GRANTING PETITION FOR REDUCED  
FREQUENCY OF PARTICULATE TESTING

On April 2, 1982, the Petitioner, FLORIDA POWER CORPORATION, filed a Petition for Reduction in Quarterly Particulate Emissions Compliance Testing pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1 for the following fossil fuel steam generating unit:

Bartow Unit 1

Bartow Unit 3

I have reviewed the petitions and supporting documents and conclude that the Petitioner has demonstrated that the particulate emissions standard applicable to these sources under Florida Administrative Code Rule 17-2.600(5)(b)2 has been regularly complied with for more than two years. Therefore, pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1, IT IS ORDERED that the above referenced petitions are GRANTED with the following conditions:

1. The generating units listed above shall be required to conduct two compliance tests for steady state particulate emissions in each calendar year. One compliance test shall be conducted during the first six months of the calendar year. The remaining compliance test shall be conducted during the second six months of the calendar year and at least sixty (60) days after the first test was conducted.

2. The subject generating units shall not exceed visible emissions of forty (40) percent opacity, except as provided in Florida Administrative Code Rule 17-2.250.

3. Should the petitioner subsequently elect to test for compliance with the steady-state particulate emissions standard



on an annual basis as provided in Florida Administrative Code Rule 17-2.600(5)(b)1, the provisions of this Order shall automatically become null and void.

4. This order supercedes all conflicting conditions relating to particulate emissions compliance testing contained in the operating permits issued by the Department for the above listed generating units.

The Petitioner may request a hearing in accordance with Section 120.57, Florida Statutes, and Florida Administrative Code Chapters 17-1 and 28-5. The request for hearing must be filed (received) in the Office of General Counsel of the Department, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of receipt of this Order. Failure to file a request for hearing within this time shall constitute a waiver of Petitioner's right to request a hearing under Section 120.57, Florida Statutes.

DONE and ORDERED this 2 day of December, 1982, in Tallahassee, Florida.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

*Victoria J. Tschinkel*      *12/2/82*  
Clerk                                      Date

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*Victoria J. Tschinkel*  
VICTORIA J. TSCHINKEL  
Secretary

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32301  
904/488-4805

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that the original has been filed in the Office of General Counsel to maintain this file and that one copy has been furnished by U. S. Mail to G. C. Moore, Vice President, Power Production, Florida Power Corporation, Post Office Box 14042, St. Petersburg, Florida 33733, this 9th day of December, 1982.

  
MARTHA HARRELL HALL

**ATTACHMENT BA-EU3-L13**  
**COMPLIANCE ASSURANCE MONITORING PLAN**

**ATTACHMENT BA-EU3-L13**

Compliance Assurance Monitoring Plan to be submitted to implementing agency by required date.  
See Section E, Pollutant Information, for method of compliance for specific pollutant.

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Bartow-Anclote Pipeline Heating Boiler</b>		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown <b>004</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? [ ] Yes [ <b>x</b> ] No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters):		

**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:		
2. Long-term Reserve Shutdown Date:		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating:	MW	
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	<b>16</b>	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	<b>24</b> hours/day	<b>7</b> days/week
	<b>52</b> weeks/yr	<b>8,760</b> hours/yr



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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU4-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: <b>EU4</b>	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>Boiler gases exhaust through single stack.</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>30</b> feet
7. Exit Diameter:	<b>3</b> feet
8. Exit Temperature:	<b>515</b> °F

9. Actual Volumetric Flow Rate:	7,220 acfm	
10. Percent Water Vapor:	%	
11. Maximum Dry Standard Flow Rate:	dscfm	
12. Nonstack Emission Point Height:	feet	
13. Emission Point UTM Coordinates:		
Zone: 17	East (km): 342.4	North (km): 3082.6
14. Emission Point Comment (limit to 200 characters):		

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Ext. Comb. Boiler - Electric Generation Natural Gas</b>	
2. Source Classification Code (SCC):  <b>1-01-006-04</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate:  <b>0.015</b>	5. Maximum Annual Rate:  <b>131</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:  <b>1,050</b>	
10. Segment Comment (limit to 200 characters):  <b>Maximum Annual Rate = 131.4 (rounded to 131). Sulfur content; 1 grain/MMcf.</b>	

**Segment Description and Rate:** Segment 2 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Ext. Comb. Boiler Electric Generation Distillate Oil No.1 and No.2 Oil</b>	
2. Source Classification Code (SCC): <b>1-01-005-01</b>	
3. SCC Units: <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate: <b>0.11</b>	5. Maximum Annual Rate: <b>964</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur: <b>0.5</b>	8. Maximum Percent Ash: <b>0.1</b>
9. Million Btu per SCC Unit: <b>138</b>	
10. Segment Comment (limit to 200 characters): <b>Maximum Annual Rate = 963.6 (rounded to 964).</b>	

**F. SEGMENT (PROCESS/FUEL) INFORMATION  
(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 3 of 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Ext. Comb. Boiler Electric Generation Liq Petroleum Gas Propane</b>	
2. Source Classification Code (SCC):  <p style="text-align: center;"><b>1-01-010-02</b></p>	
3. SCC Units:  <p style="text-align: center;"><b>Thousand Gallons Burned</b></p>	
4. Maximum Hourly Rate:  <p style="text-align: center;"><b>0.191</b></p>	5. Maximum Annual Rate:  <p style="text-align: center;"><b>1,673</b></p>
6. Estimated Annual Activity Factor:  	
7. Maximum Percent Sulfur:  	8. Maximum Percent Ash:  
9. Million Btu per SCC Unit:  <p style="text-align: center;"><b>81</b></p>	
10. Segment Comment (limit to 200 characters):  <p style="text-align: center;"><b>Million Btu per SCC Unit = 81.2 (rounded to 81).</b></p>	

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	



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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO <sub>2</sub>			EL
PM			NS
PM <sub>10</sub>			NS
NO <sub>x</sub>			NS
CO			NS

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>SO2</b>		
2. Total Percent Efficiency of Control:		%
3. Potential Emissions:	<b>7.8 lb/hour</b>	<b>34.2 tons/year</b>
4. Synthetically Limited?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Range of Estimated Fugitive/Other Emissions:		
<input type="checkbox"/> 1	<input type="checkbox"/> 2	<input type="checkbox"/> 3 _____ to _____ tons/yr
6. Emission Factor:	<b>0.5 %sulfur content</b>	
Reference: <b>AP-42</b>		
7. Emissions Method Code:		
<input checked="" type="checkbox"/> 0	<input type="checkbox"/> 1	<input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):		
<b>See Attachment BA-EU4-H8</b>		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):		

A.

1. Basis for Allowable Emissions Code: <b>OTHER</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.5 %sulfur content</b>		
4. Equivalent Allowable Emissions:	<b>7.8 lb/hour</b>	<b>34.2 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Based on permit condition</b>		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 2

1.	Visible Emissions Subtype: <b>VE20</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>20</b> %      Exceptional Conditions: <b>40</b> % Maximum Period of Excess Opacity Allowed: <b>2</b> min/hour
4.	Method of Compliance: <b>Annual compliance test - EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. Annual test while burning No.2 fuel oil greater then 400 hrs/yr. 2. Rule 62-296.406(1). 3. Visible emission at steady state-minor source.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:      %      Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Rule 62-210.700(1), excess emissions from startup, shut-down, and malfunction, not to exceed 2 hr in 24-hr.</b>

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

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input type="checkbox"/> C	<input type="checkbox"/> E <input checked="" type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E <input checked="" type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E <input checked="" type="checkbox"/> Unknown
4.	Baseline Emissions:		
	PM	lb/hour	tons/year
	SO <sub>2</sub>	lb/hour	tons/year
	NO <sub>2</sub>		tons/year
5.	PSD Comment (limit to 200 characters):		
	<b>Baseline emissions not known.</b>		

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L5</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Previously Submitted, Date: _____	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable



**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L10</u> <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU4-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU4-D**  
**EMISSION UNIT REGULATIONS**

**ATTACHMENT BA-EU4-D**

**EMISSION UNIT REGULATIONS**

**Applicable Requirements Listing - Power Plants**

**EMISSION UNIT: EU04 - Pipeline Heater Boiler - FPC Bartow Plant**

**FDEP Rules:**

**Stationary Sources-General:**

- 62-210.700(1) - Malfunction only for FFSG
- 62-210.700(2) - Startup/Shut down for FFSG
- 62-210.700(3) - Load Change/soot blowing for FFSG
- 62-210.700(4) - Maintenance
- 62-210.700(6)

**Stationary Sources-Emission Standards:**

- 62-296.406(1); (2); (3) - VE; 20% with Excess Emissions; BACT

**Stationary Sources-Emission Monitoring:**

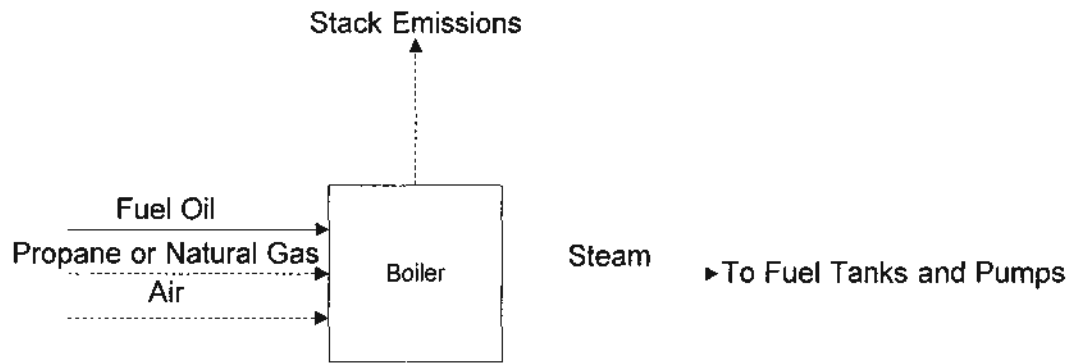
- 62-297.310(2)(b) - All Units (Operating Rate)
- 62-297.310(4)(a)2. - All Units (Applicable Test Procedures;Sampling time)
- 62-297.310(5) - All Units (Determination of Process Variables)
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4.a.
- 62-297.310(7)(a)9. - FDEP Notification - 15 days
- 62-297.310(8) - Test Reports

**ATTACHMENT BA-EU4-H8**  
**CALCULATION OF EMISSIONS**

Attachment BA-EU4-H8. Maximum Estimated Emissions for Emissions Limited Pollutants,  
Bartow Plant, Bartow-Anclote Pipeline Heater Boiler

Pollutant	Oil-Firing
Hours of Operation	8,760
Sulfur Dioxide (lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)	
Basis	AP-42
EF (lb/1000 gal fuel) x sulfur content	142 x s
Sulfur content (% s)	0.5
Fuel consumption (1000 gal/hr)	0.110
Emission rate (lb/hr)	7.81
(TPY)	34.2

**ATTACHMENT BA-EU4-L1**  
**PROCESS FLOW DIAGRAM**



**ATTACHMENT BA-EU4-L2**  
**FUEL ANALYSIS OR SPECIFICATION**



## ATTACHMENT BA-EU4-L2

### FUEL ANALYSIS

#### Natural Gas Analysis

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
Relative density	0.58 (compared to air)	
heat content	950 - 1124 Btu/cu ft.	
% sulfur	0.43 grains/CCF <sup>1</sup>	1 grain/100 CF
% nitrogen	0.8% by volume	
% ash	negligible	

Note: The values listed are "typical" values based upon information supplied to FPC by Florida Gas Transmission (FGT). However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data from laboratory analysis

## ATTACHMENT BA-EU4-L2

### FUEL ANALYSIS

#### No. 2 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	30 <sup>1</sup>	-
Relative density	6.92 lb/gal <sup>2</sup>	
Heat content	18,400 Btu / lb (LHV)	
% sulfur	0.04 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.01 <sup>1</sup>

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**ATTACHMENT BA-EU4-L2**

**FUEL ANALYSIS**

**Propane Analysis**

<u>Parameter</u>	<u>Typical Value</u>
heat content	81 Btu/gal
% sulfur	negligible
% nitrogen	0.8% by volume
% ash	negligible

**ATTACHMENT BA-EU4-L5**  
**COMPLIANCE TEST REPORT**

**ATTACHMENT BA-EU4-L5**

A compliance test report for visible emissions (VE) was performed for Bartow Plant's pipeline heating Boiler in May 1994. This report was submitted to FDEP. FPC has annually requested a waiver from VE testing since the units did not fire oil for more than 400 hours for previous 12 months and were not expected to fire oil for next 12 months. The VE test was conducted in May 1994 as required for permit renewal (i.e., did not exceed 400 hr/yr operation). A similar request was made in December 1995.

**ATTACHMENT BA-EU4-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**

**ATTACHMENT BA-EU4-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**  
**MINIMIZING EXCESS EMISSIONS**

Startup of the heater boiler begins when fuel (No. 2 fuel oil, propane, or natural gas) is introduced into one or more burners within the boiler and lighted (commencement of combustion). Startup is complete and steady-state operation begins when the combustion process has stabilized and the steam load is stable and above 10 percent load.

Shutdown of the heater boilers begins when unit steam load is decreased to below 10 percent of maximum and continues until the final burner gun is removed from service.

Countermeasures which may be taken in the event of excess emissions include, but are not limited to:

- burner elevation loading
- proper excess air adjustments
- recognizing and removal of faulty burners
- fuel oil temperature adjustments
- proper and timely operation of boiler cleaning devices
- reduction of unit steam load

Knowledge of the appropriate countermeasures to take when excess emissions occur is a part of the routine operator training for those who operate the boilers. Topics include current permit limits, maximum allowable duration of excess emissions, appropriate countermeasures for excess emissions, duty to notify, and fuels and combustion training.

**ATTACHMENT BA-EU4-L10**  
**ALTERNATIVE METHODS OF OPERATION**



**ATTACHMENT BA-EU4-L10**

**ALTERNATIVE METHODS OF OPERATION**

The steam boiler can be fired with either natural gas, propane gas, or No. 2 fuel oil with a maximum sulfur content of 0.5% by weight at a maximum heat input rate of 15.5 MMBtu/hr.

**ATTACHMENT BA-EU4-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



Lawton Chiles  
Governor

Florida Department of  
**Environmental Protection**

RECEIVED

APR 20 1994

Environmental Svcs  
Department

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

**NOTICE OF PERMIT ISSUANCE**

CERTIFIED MAIL

In the Matter of an Application  
for permit by:

DER File No.: A052-244478  
County: Pinellas

W. Jeffrey Pardue  
Florida Power Corporation  
P.O. Box 14042, MAC H2G  
St. Petersburg, Florida 33733

Enclosed is Permit Number A052-244478 to operate the Bartow - Anclote Pipeline Heater Boiler at your Bartow Generating Plant, issued pursuant to Section 403, Florida Statutes. Please read this new permit thoroughly as there are changes from the previous permit.

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

The Petition shall contain the following information;

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

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

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

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

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

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



\_\_\_\_\_  
David R. Zell  
Air Permitting Engineer  
Phone (813) 744-6100 Ext. 412

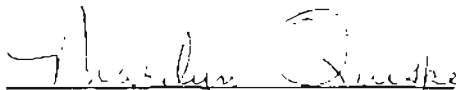
DRZ/  
Attachment

copy to:  
Gary Robbins, Pinellas County Dept. of Environmental Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on APR 10 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT FILED,  
on this date, pursuant to Section  
120.52(11), Florida Statutes, with  
the designated Department Clerk,  
receipt of which is hereby  
acknowledged.

  
\_\_\_\_\_  
Clerk

APR 10 1994  
Date



Florida Department of  
**Environmental Protection**

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Florida Power Corporation  
P.O. Box 14042, MAC H2G  
St. Petersburg, FL 33733

**PERMIT/PROJECT:**

Permit No: A052-244478  
County: Pasco  
Expiration Date: 04/18/99  
Project: Bartow - Anclote  
Pipeline Heating Boiler

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-200 through 297, and Chapter 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the department and made a part hereof and specifically described as follows:

For the operation of the Bartow - Anclote Pipeline Heater Boiler which is used, when necessary, to heat fuel oil being transferred from the Bartow Generating Plant to the Anclote Generating Plant. This steam boiler will be fired with either natural gas, propane gas, or No. 2 fuel oil with a maximum sulfur content of 0.5% by weight, at a maximum heat input rate of 15.5 MMBtu/hr.

Location: Bartow Generating Plant, Weedon Island, St. Petersburg

UTM: 17-342.5 E 3083.6 N NEDS No: 0011 Point ID No: 04

Replaces Permit No.: A052-159575

**PERMITTEE:**

Florida Power Corporation  
St. Petersburg

**PERMIT/PROJECT:**

Permit No. : AO52-244478  
Project: Bartow-Anclote  
Pipeline Heater Boiler

**Specific Conditions:**

1. A part of this permit is the attached 15 General Conditions. [Rule 17-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law. [Rule 17-210.300, F.A.C.]

**Operational and Emission Limitations**

3. This boiler is permitted for continuous operation (8,760 hours per year). [Operation permit renewal application dated January 20, 1994]
4. This boiler is permitted to fire only the following fuels and at the maximum rates shown:

Fuel	Max. %Sulfur	Max. MMBtu/hr	Max. Fuel Usage
Natural Gas	--	15.5	15 Mcf/hour
#2 Fuel Oil *	0.5 % by wt	15.5	110 gal/hour
Propane Gas	--	15.5	191 gal/hour

\* New No. 2 Fuel oil only (waste or recycled oil is not allowed)

[Operation permit renewal application dated January 20, 1994 and previous permits]

5. Visible emissions shall not exceed 20% opacity, except for one two-minute period per hour during which opacity shall not exceed 40%. [Rule 17-296.406(1), F.A.C.]

6. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor. [Rule 17-296.320(2), F.A.C. and Pinellas County Ordinance No. 89-70, Subpart 6.620, as amended]



**PERMITTEE:**

Florida Power Corporation  
St. Petersburg

**PERMIT/PROJECT:**

Permit No. : A052-244478  
Project: Bartow-Anclote  
Pipeline Heater Boiler

**Specific Conditions:**

Testing Requirements

7. Test the emissions from the boiler exhaust stack for visible emissions annually on or within the 60 day period prior to the date of May 31 of each year. The test report shall be submitted to the Air Program of the Pinellas County Department of Environmental Management within 45 days of the testing. (See also Specific Condition No. 8).

[Rules 17-297.340 and 17-297.570, F.A.C.]

8. The visible emissions compliance test could be waived, on a year by year basis if fuel oil has not been used in this boiler for more than 400 hours for the previous 12 months and if it is not expected to be used in this boiler for more than 400 hours during the next 12 months, except that, regardless of fuel used, a VE test shall be conducted during the 6 months period prior to applying for renewal of this operation permit. Each year when the VE test is due, if this test waiver provision is invoked, a letter must be sent to the Air Programs of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management stating that the above requirements for the waiver have been satisfied. This notification letter shall include a statement of the number of hours that fuel oil was fired during the last 12 month period, and, if fuel oil was fired for any period during the last 12 months, a copy of the most recent fuel records that document compliance with the % sulfur content limit in accordance with Specific Condition No. 16. [Rules 17-297.340(c) and (e), F.A.C.]

9. Compliance with the visible emission (VE) limitation of Specific Condition No. 5 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration. The visible emissions test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. The minimum requirements for stationary point source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C. and 40 CFR 60 Appendix A. [Rule 17-297, F.A.C.]

10. The permittee shall notify the Air Program of the Pinellas County Department of Environmental Management at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted.

[Rules 17-297.340(1)(i), F.A.C.]

**PERMITTEE:**

Florida Power Corporation  
St. Petersburg

**PERMIT/PROJECT:**

Permit No. : AO52-244478  
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Pipeline Heater Boiler

**Specific Conditions:**

11. Testing of emissions shall be conducted during operation of the boiler within 90-100% of the maximum permitted fuel heat input rate of 15.5 MMBtu/hour when feasible. A compliance test submitted at a rate less than 90% of the maximum permitted rate will automatically constitute an amended permitted heat input rate at that lesser rate plus 10%. Within 30 days of that lower amended permitted rate being exceeded, a new compliance test shall be conducted at the higher rate. The test results shall be submitted to the Air Program of the Pinellas County Department of Environmental Management within 45 days of testing. Acceptance of the test by the Department will automatically constitute an amended permit at the higher tested heat input rate plus 10%, but in no case shall the maximum permitted heat input rate of 15.5 MMBtu/hour be exceeded. The fuel type and heat input rate during the test shall be included with each test report (see also Specific Condition No. 12). Failure to submit the required fuel information or operating under conditions that are not representative of normal operating conditions may invalidate the test and fail to provide reasonable assurance.  
[Rule 17-4.070(3), F.A.C.]

12. If fuel oil has been used in this boiler for more than 400 hours during the 12 month period prior to the required compliance test, or if it is expected to be used in this boiler for more than 400 hours during the next 12 month period, then the VE test shall be conducted while firing No. 2 fuel oil. The permittee shall submit a statement of the fuel heat input rate and a description of the fuel in use as a part of the compliance test report. Failure to submit the heat input rate, fuel oil sulfur content (see Specific Condition No. 13) may invalidate the test and fail to provide reasonable assurance of compliance. [Rule 17-4.070(3), F.A.C.]

13. Compliance with the No. 2 oil sulfur content limitation of Specific Condition No. 4 shall be demonstrated, during any VE test conducted while burning oil, through submission of a fuel oil analysis, or vendor documentation that No. 2 fuel oil was delivered for use on this boiler (see Specific Condition No. 16). A copy of the documentation for the most recent fuel oil delivery shall be included with the VE test report. [Rule 17-4.070(3), F.A.C.]

**Reporting Requirements**

14. Submit to the Air Programs of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management each calendar year on or before March 1, completed DER Form 17-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year.  
[Rule 17-210.370(2), F.A.C.]

**PERMITTEE:**

Florida Power Corporation  
St. Petersburg

**PERMIT/PROJECT:**

Permit No. : AO52-244478  
Project: Bartow-Anclote  
Pipeline Heater Boiler

**Specific Conditions:**

Recordkeeping Requirements

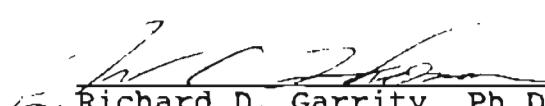
15. In order to document compliance with the requirements of Specific Condition Nos. 4, 8 and 12, the permittee shall maintain a record of the type of fuel (natural gas, No. 2 oil, or propane gas) used in the boiler during each period of operation. The records shall include the total hours of operation for each period of burning No. 2 oil with a monthly total of oil-fired operating hours for each calendar month. These records shall be recorded in a permanent form suitable for inspection upon request, and shall be retained for at least a two year period. [Rule 17-4.070(3), F.A.C.]

16. In order to document continuing compliance with Specific Condition No. 4, records shall be maintained of the sulfur content, in % by weight, of No. 2 fuel oil delivered for use in this boiler. On the basis of the requirements of Department of Agriculture and Consumer Services Rule 5F-2001 (which requires that No. 2 oil sold in Florida have a maximum sulfur content not to exceed 0.5%), reasonable assurance that the sulfur content requirement is being met can also be provided through vendor supplied documentation that the fuel oil delivered for use in this boiler meets the State of Florida specifications for No. 2 oil. At the minimum, the above records shall be maintained for the most recent two year period and made available upon request. [Rule 17-4.070(3), F.A.C.]

Permits

17. At least two applications to renew this operating permit shall be submitted to the Air Program of the Southwest District Office of the Department, with a copy sent to the Air Program of the Pinellas County Department of Environmental Management, no later than February 17, 1999 (60 days prior to the expiration date of this permit).  
[Rule 17-4.090(1), F.A.C. and Pinellas County Ordinance No. 89-70, Subpart 2.210, as amended]

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

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

**ATTACHMENT - GENERAL CONDITIONS:**

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

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

**GENERAL CONDITIONS:**

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

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

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Peaking Gas Turbine Units 1,2,3,4</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown *		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>Units 1,2,3,4 - corresponding ARMS No. 005,006,007,008</b>		



**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:	<b>14 Jun 1972</b>
2. Long-term Reserve Shutdown Date:	
3. Package Unit: Manufacturer:	<b>General Electric</b> Model Number: <b>MS 7000</b>
4. Generator Nameplate Rating:	<b>56 MW</b>
5. Incinerator Information:	
Dwell Temperature:	°F
Dwell Time:	seconds
Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	<b>714</b>	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):	<b>Maximum heat input based on permit limit firing No. 2 fuel oil. Max heat input rate function of ambient temperature.</b>	

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	<b>24</b> hours/day	<b>7</b> days/week
	<b>52</b> weeks/yr	<b>8,760</b> hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-E05-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: EU5	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):  <b>Gas turbine gases exhaust through a single stack per turbine unit. Four units for emission unit.</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>45</b> feet
7. Exit Diameter:	<b>17.9</b> feet
8. Exit Temperature:	<b>930</b> °F

9. Actual Volumetric Flow Rate:	1,043,297 acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates:	
Zone: 17	East (km): 392.4      North (km): 3082.6
14. Emission Point Comment (limit to 200 characters):	
	<b>Per unit. Stack exit is rectangular, 20.67 ft. x 12.17 ft.</b>

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>No. 2 fuel oil</b>	
2. Source Classification Code (SCC):  <b>2-01-001-01</b>	
3. SCC Units:  <b>Thousand Gallons Burned</b>	
4. Maximum Hourly Rate:  <b>5.174</b>	5. Maximum Annual Rate:  <b>45,323</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:  <b>0.5</b>	8. Maximum Percent Ash:  <b>0.1</b>
9. Million Btu per SCC Unit:  <b>138</b>	
10. Segment Comment (limit to 200 characters):  <b>Heat content-LHV.</b>	

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	



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

1. Pollutant Emitted	2. Primary Control Device Code	3 Secondary Control Device Code	4. Pollutant Regulatory Code
SO2			EL
PM			NS
PM10			NS
NOx			NS
CO			NS
VOC			NS
H133			NS
HAPS			NS

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>SO2</b>		
2. Total Percent Efficiency of Control:		<b>0 %</b>
3. Potential Emissions:	<b>360.57 lb/hour</b>	<b>1,579.3 tons/year</b>
4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 _____ to _____ tons/yr		
6. Emission Factor:		<b>0.5 %sulfur</b>
Reference: <b>Permit limit</b>		
7. Emissions Method Code:  <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5		
8. Calculation of Emissions (limit to 600 characters):  <b>See Attachment BA-EU5-H8</b>		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):		

Emissions Unit Information Section 5 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>OTHER</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.5 percent sulfur</b>		
4. Equivalent Allowable Emissions:	<b>360.57</b> lb/hour	<b>1,579.3</b> tons/year
5. Method of Compliance (limit to 60 characters): <b>Fuel oil analysis during compliance test</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Based on permit limit</b>		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 2

1.	Visible Emissions Subtype: <b>VE20</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>20</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>EPA Method 9, annual compliance test</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Rule 62-296.310(2)(a)</b>

**Visible Emissions Limitations:** Visible Emissions Limitation 2 of 2

1.	Visible Emissions Subtype: <b>VE</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:      %      Exceptional Conditions: <b>100</b> % Maximum Period of Excess Opacity Allowed: <b>60</b> min/hour
4.	Method of Compliance: <b>Best operation practice</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Rule 62-210.700(1); excess emissions from startup, shutdown and malfunction, not to exceed 2 hr in 24 hr</b>

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

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number: Serial Number:	
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input checked="" type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	lb/hour		tons/year
	NO <sub>2</sub>			tons/year
5.	PSD Comment (limit to 200 characters):			
	<b>Baseline emissions not known.</b>			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L5</u>	<input type="checkbox"/> Not Applicable
		<input type="checkbox"/> Previously Submitted, Date: _____	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable



**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation  <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading)  <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements  <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan  <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU5-L13</u> <input type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required)  <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____  <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____  <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____  <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____  <input checked="" type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU5-D**  
**EMISSION UNIT REGULATIONS**

## ATTACHMENT BA-EU5-D

### EMISSION UNIT REGULATIONS

#### Master Applicable Requirements Listing - Power Plants (5/13/96)

EMISSION UNIT: EU5: Peaking Units Gas Turbines 1-4- FPC Bartow Plant

#### FDEP Rules:

##### Stationary Sources-General:

- 62-210.700(1) - All EUs
- 62-210.700(4) - All EUs; maintenance
- 62-210.700(6) - All EUs;

##### Stationary Sources-Emission Standards/RACT:

- 62-296.320(4)(b)(State Only) - General VE
- 62-296.700(3) - Specific RACT Limiting Standards\*
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(e) - Records and Inspection

##### Stationary Sources-Emission Monitoring:

- 62-297.310(2)(a) - All Units (Operating Rate; reserved for CTs)
- 62-297.310(4)(a)2. - All Units (Applicable Test Procedures;Sampling time)
- 62-297.310(5) - All Units (Determination of Process Variables)
- 62-297.310(7)(a)1. - Renewal
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4.a. - Annual Test
- 62-297.310(7)(a)8 - CT exemption if < 400 hrs/yr; VE test once every 5 years
- 62-297.310(7)(a)9 - FDEP Notification - 15 days
- 62-297.310(8) - Test Reports

\* It is the applicant position that the use of very low sulfur fuel oil meets the requirements of this rule.

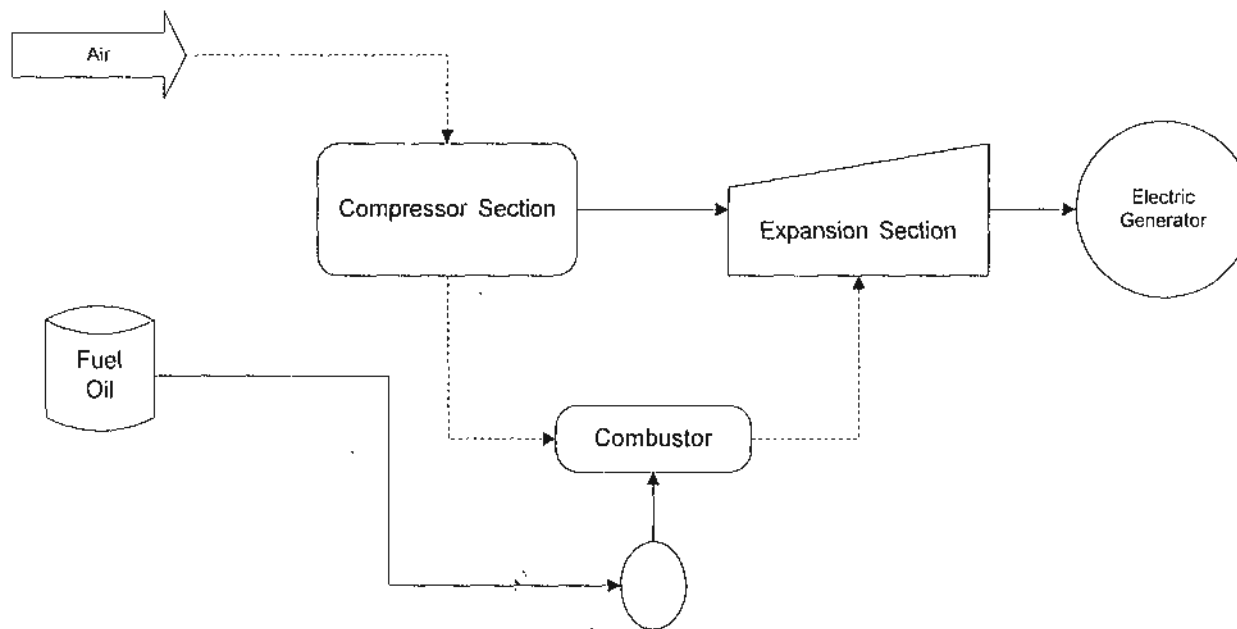
**ATTACHMENT BA-EU5-H8**  
**CALCULATION OF EMISSIONS**


## Attachment BA-EU5-H8. Maximum Estimated Emissions for Emissions Limited Pollutants, FPC Bartow Plant, Gas Turbine Peaking Units.

Pollutant/Units	Gas Turbine			
	P-1	P-2	P-3	P-4
Hours of Operation	8,760	8,760	8,760	8,760
Annual Capacity Factor (%)	100	100	100	100
Sulfur Dioxide (lb/hr) = Emission factor (lb/MMBtu) x Heat input rate (MMBtu/hr)				
Basis	AO Permit/ AP-42	AO Permit/ AP-42	AO Permit/ AP-42	AO Permit/ AP-42
Emission factor (lb/MMBtu) x sulfur content	1.01 x s	1.01 x s	1.01 x s	1.01 x s
Sulfur content (%)	0.50	0.50	0.50	0.50
Heat input rate (MMBtu/hr)	714	714	714	714
Emission rate (lb/hr)	360.57	360.57	360.57	360.57
(TPY)	1579.3	1579.3	1579.3	1579.3

Sources: Emission limit based on maximum sulfur content limit established in FDEP Permit AO52-253215A, AO52-253216A, AO52-253217A, AO52-253218A.

**ATTACHMENT BA-EU5-L1**  
**PROCESS FLOW DIAGRAM**



<b>Process Flow Legend</b> .....▶ Gas Flow —▶ Solid / Liquid Flow	Florida Power Corporation, Bartow Plant Process Flow Diagram	Emission Unit: Peaking Gas Turbine No. 1, 2, 3, 4 Process Area: Overall Plant Filename: FPCBA VSD Latest Revision Date: 11/13/95 02:00 PM	 <b>KBN</b> Engineering and Applied Sciences, Inc.
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**ATTACHMENT BA-EU5-L2**  
**FUEL ANALYSIS OR SPECIFICATION**



Attachment BA-EU5-L2

Fuel Analysis

No. 2 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	30 <sup>1</sup>	-
Relative density	7.1 lb/gal <sup>2</sup>	
Heat content	18,400 Btu / lb (LHV)	
% sulfur	0.12 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.01 <sup>4</sup>

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**ATTACHMENT BA-EU5-L5**  
**COMPLIANCE TEST REPORT**

**ATTACHMENT BA-EU5-L5**

A compliance test report for visible emissions (VE) was performed for the Bartow Plant's combustion turbine Units P1, P2, P3, and P4 on January 18, 1994. This report was submitted to FDEP. On December 22, 1994, FPC requested a waiver from VE testing since the units did not fire oil for more than 400 hours for previous 12 months and were not expected to fire oil for next 12 months. A similar request was made in December 1995.

✓

**ATTACHMENT BA-EU5-L6**  
**PROCEDURES FOR STARTUP AND SHUTDOWN**

**ATTACHMENT BA-EU5-L6**  
**PROCEDURES FOR STARTUP/SHUTDOWN**

Startup for the gas turbine begins with an electric control system using a switch to initiate the unit startup cycle. The unit generator is synchronized with the grid that can be "on line" (electrical power production) within 5 minutes from startup.

The gas turbine has no emission controls. If excess emissions are encountered during startup or shutdown, the nature and cause of any malfunction is identified, along with the corrective action taken or preventative measures adopted. Corrective actions may include switching the unit from automatic (remote) to local control. Best Operating Practices are adhered to and all efforts to minimize both the level and duration of excess emissions are undertaken.

Shutdown is performed by reducing the unit load (electrical production ) to a minimum level, opening the breaker (which disconnects the unit generator from the system electrical grid), shutting off the fuel, and coasting to a stop.

**ATTACHMENT BA-EU5-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



# Department of Environmental Protection

RECEIVED

JUN 20 1995

Environmental Svcs  
Department

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Virginia B. Wecherell  
Secretary

In the Matter of Applications  
for Permits by:

DEP Files:

A052-253215A  
A052-253216A  
A052-253217A  
A052-253218A

Mr. W. Jeffrey Pardue, C.E.P.  
Manager - Environmental  
Florida Power Corporation  
Post Office Box 14042, MAC H2G  
St. Petersburg, Florida 33733

Pinellas County

## NOTICE OF AMENDED PERMITS

Enclosed are amended air pollution operating permits A052-253215A, A052-253216A, A052-253217A and A052-253218A for the operation of the Bartow Peaking Units Nos. 1, 2, 3 and 4, located at Weedon Island, St. Petersburg, Florida, issued pursuant to Section 403.087, Florida Statutes.

These operation permits are being amended per the December 13, 1994 request from Mr. Scott Osbourn, Senior Environmental Engineer, Florida Power Corporation to change the compliance testing to 90-100% of the operating range for each turbine, to incorporate a corrected turbine heat input performance curve, and other changes.

SPECIAL NOTE: The Department is presently reviewing permitting guidance relative to testing of combustion turbines, and as a result of this review, the Department may develop and issue revised permitting guidelines in the future. Issuance of such revised policy or guidelines by the Department may cause these operational permits to be amended. Also, subsequent permitting of these sources per Chapter 62-213, *Operation Permits for Major Sources of Air Pollution (Title V)* will require an assessment of the applicability of Rule 62-296.700, *F.A.C., Reasonably Available Control Technology (RACT), Particulate Matter*.



Mr. W. Jeffrey Pardue, C.E.P.  
Florida Power Corporation

Bartow Peaking Units 1,2,3 and 4

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

The Petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

Mr. W. Jeffrey Pardue, C.E.P.  
Florida Power Corporation

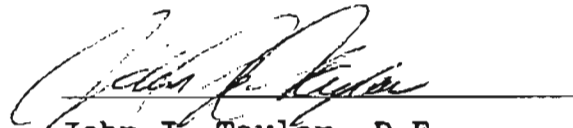
Bartow Peaking Units 1,2,3 and 4

These permit amendments are final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

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

Executed in Tampa, Florida.

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION



John J. Taylor, P.E.  
Air Permitting Engineer  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318  
Phone: (813) 744-6100 x117

Enclosures

copy to: Mr. Gary Robbins, Environmental Manager,  
Pinellas County Department of Environmental Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on JUN 19 1995 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant  
to Section 120.52(11), Florida  
Statutes, with the designated  
Department Clerk, receipt of  
which is hereby acknowledged.

Marilyn Quispe JUN 19 1995  
(Clerk) (Date)



# Department of Environmental Protection

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Virginia B. Wetherell  
Secretary

**PERMITTEE:**

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, Florida 33733

**PERMIT/PROJECT:**

Permit: A052-253215A  
County: Pinellas  
Original Issue: 11/23/95  
Amended Date: 06/19/95  
Expiration Date: 11-01-99  
Project: Bartow Peaking Unit  
No. 1

This amended permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 1 and is composed of a General Electric Company, Serial No. 335X113 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217713 gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of *Fuel Heat Input versus Ambient Temperature* included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

**Location:** Weedon Island, St. Petersburg, Pinellas County  
**UTM:** 17-342.18 E 3082.87 N  
**NEDS No:** 0011  
**Point ID:** 05

Replaces Permit A052-253215, issued 11/23/94.

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253215A  
Project: Bartow Peaking Unit  
No. 1

**SPECIFIC CONDITIONS:**

1. A part of this permit is the attached GENERAL CONDITIONS. [Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

**EMISSION LIMITATIONS**

3. Visible emissions from Bartow Peaking Unit No. 1 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

**OPERATION LIMITATIONS**

4. The hours of operation for Bartow Peaking Unit No. 1 are not restricted (8760 hours per year). [Specified in permit application]
5. The peak heat input rate of the Bartow Peaking Unit No. 1 turbine shall be determined from the graph of *Fuel Heat Input versus Ambient Temperature* shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]
6. The Bartow Peaking Unit No. 1 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

**TESTING AND COMPLIANCE REQUIREMENTS**

7. Test the Bartow Peaking Unit No. 1 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test can be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued On Next Page)

**SPECIFIC CONDITIONS:**

7. (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).  
[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 1 on Page 8 of this permit. The graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 1 is made a part of this permit. If it is not practical to test at the peak rate, then the source may be tested at less than the peak rate. In this case, subsequent source operation is then limited to 110 percent of the tested rate until a new test is conducted. Once the source is so limited, the maximum rate is then equal to 110 percent of the tested rate, and operation at a higher rate is only allowed for no more than 15 consecutive days for the purpose of additional compliance testing in order to regain the peak rate. Acceptance of a test by the Department of Environmental Protection will automatically amend this permit to a new maximum rate, but the new maximum rate shall not exceed the peak rate.  
[Rules 62-297.570(2), 62-297.570(3), and 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253215A  
Project: Bartow Peaking Unit  
No. 1

**SPECIFIC CONDITIONS:**

**MONITORING REQUIREMENTS**

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur limit of 0.5%, by weight is not exceeded, the permittee shall provide either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit A052-167172 and Rule 62-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content  
API Gravity  
Density  
Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167172 and Rule 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253215A  
Project: Bartow Peaking Unit  
No. 1

**SPECIFIC CONDITIONS:**

**NOTIFICATION REQUIREMENTS**

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

**REPORTING REQUIREMENTS**

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

	Emission Factors No. 2 Fuel Oil <u>Pounds per MMBtu</u>
Particulate Matter (PM)	0.061 (Total)
PM10	0.48PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued On Next Page)



Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253215A  
Project: Bartow Peaking Unit  
No. 1

**SPECIFIC CONDITIONS:**

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP-42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the original permit application the peak performance of the Bartow Peaking Unit No. 1. is:

Electrical Generating Rate:	55.7 MW per hour
Heat Input Rate:	714.0 MMBtu per hour
Fuel Usage Rate:	121.0 Barrels per hour

NOTE: For reference only, based on the original permit application, (714 MMBtu per hour) and AP-42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	<u>Pounds per Hour</u>	<u>Tons per Year</u>
Particulate Matter (Total)	43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
Nitrogen Oxides	498.37	2182.87
Hydrocarbons (TOC)	12.14	53.17

14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:

- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 1 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253215A  
Project: Bartow Peaking Unit  
No. 1

**SPECIFIC CONDITIONS:**

**RECORDKEEPING REQUIREMENTS**

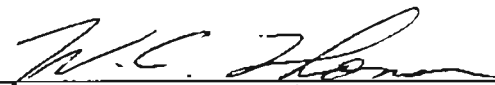
15. Florida Power Corporation shall maintain a monthly record of the hours of operation of the peaking unit. This record shall be updated monthly and shall be completed by the end of the following month. The records shall be maintained at the facility for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167172 and Rule 62-4.070(3), F.A.C.]

**PERMIT RENEWAL**

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

17. Florida Power Corporation is subject to the permitting requirements of Rule 62-213.420, F.A.C. - *Operation Permits for Major Sources of Air Pollution, Permit Applications*, and shall apply for a Title V operation permit by submitting a completed application, DEP Form 62-210.900(1), to the Division of Air Resources Management, Bureau of Air Regulation, Department of Environmental Protection (Tallahassee) by the appropriate date referenced in Rule 62-213.420(1)(a), F.A.C. The application shall include the test results from Specific Condition No. 16. A copy of the application and the test results from Specific Condition No. 16 shall also be submitted to the Air Permitting Section of the Southwest District Office (Tampa), the Department of Environmental Protection and to the Pinellas County Department of Environmental Management, Air Quality Division. [Rules 62-4.090(1) and 62-213.420, F.A.C.]

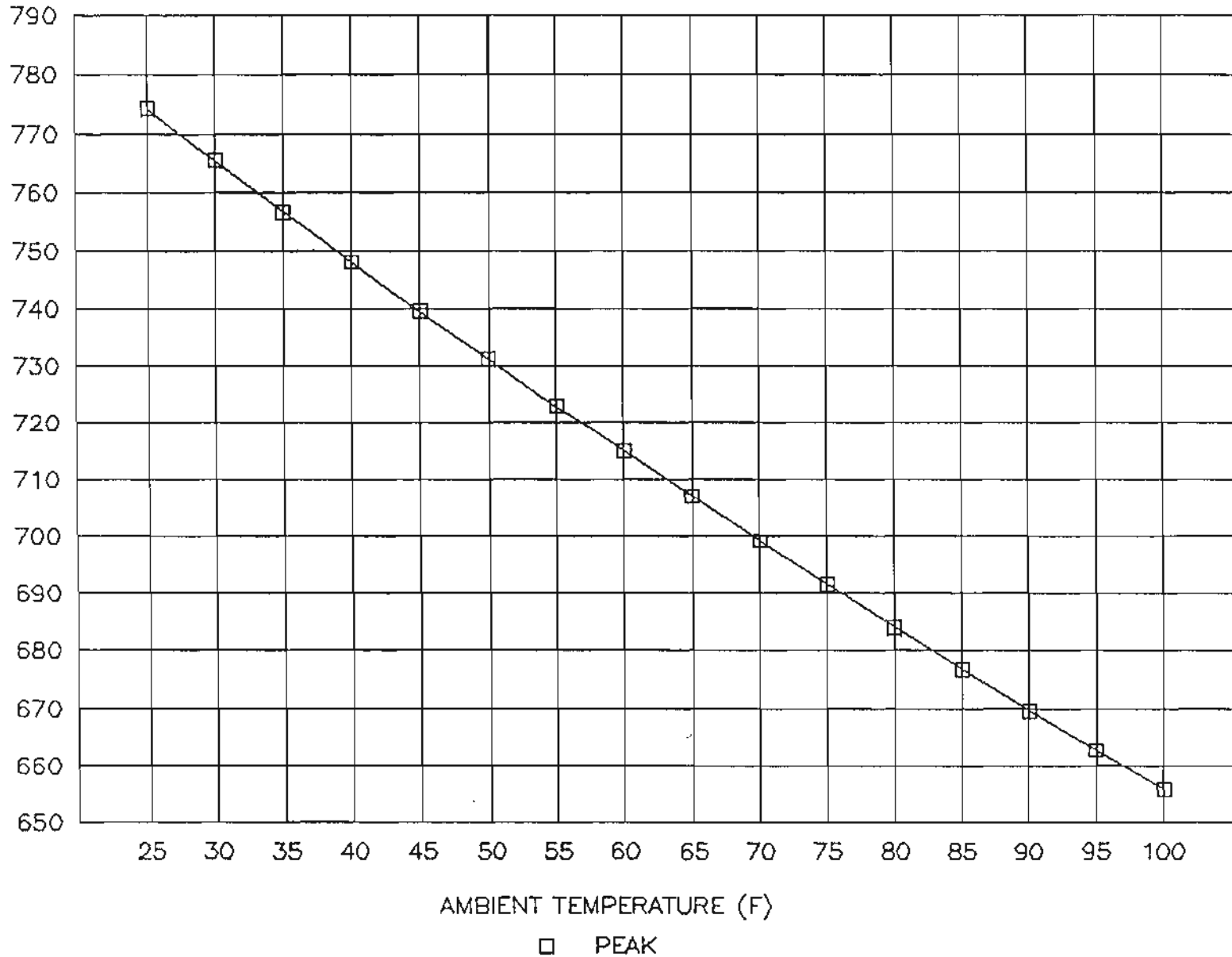
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

5fpc215a.pmt

# BARTOW COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



HEAT INPUT (MBTU/HOUR)

**ATTACHMENT - GENERAL CONDITIONS:**

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

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

**GENERAL CONDITIONS:**

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

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



# Department of Environmental Protection

RECEIVED

JUN 20 1995

Environmental Svcs  
Department

Virginia B. Wetherell  
Secretary

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**PERMITTEE:**

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, Florida 33733

**PERMIT/PROJECT:**

Permit: A052-253216A  
County: Pinellas  
Original Issue: 11/23/95  
Amended Date: 06/19/95  
Expiration Date: 11-01-99  
Project: Bartow Peaking Unit  
No. 2

This amended permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 2 and is composed of a General Electric Company, Serial No. 335X114 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217711 gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of *Fuel Heat Input versus Ambient Temperature* included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: Weedon Island, St. Petersburg, Pinellas County  
UTM: 17-342.18 E 3082.87 N  
NEDS No: 0011  
Point ID: 06

Replaces Permit A052-253216, issued 11/23/94

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

1. A part of this permit is the attached GENERAL CONDITIONS. [Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

**EMISSION LIMITATIONS**

3. Visible emissions from Bartow Peaking Unit No. 2 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

**OPERATION LIMITATIONS**

4. The hours of operation for Bartow Peaking Unit No. 2 are not restricted (8760 hours per year). [Specified in permit application]
5. The peak heat input rate of the Bartow Peaking Unit No. 2 turbine shall be determined from the graph of *Fuel Heat Input versus Ambient Temperature* shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]
6. The Bartow Peaking Unit No. 2 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

**TESTING AND COMPLIANCE REQUIREMENTS**

7. Test the Bartow Peaking Unit No. 2 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test can be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued On Next Page)



Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

7. (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).  
[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 2 on Page 8 of this permit. The graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 2 is made a part of this permit. If it is not practical to test at the peak rate, then the source may be tested at less than the peak rate. In this case, subsequent source operation is then limited to 110 percent of the tested rate until a new test is conducted. Once the source is so limited, the maximum rate is then equal to 110 percent of the tested rate, and operation at a higher rate is only allowed for no more than 15 consecutive days for the purpose of additional compliance testing in order to regain the peak rate. Acceptance of a test by the Department of Environmental Protection will automatically amend this permit to a new maximum rate, but the new maximum rate shall not exceed the peak rate.  
[Rules 62-297.570(2), 62-297.570(3), and 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

**MONITORING REQUIREMENTS**

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur limit of 0.5%, by weight is not exceeded, the permittee shall provide either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit A052-167173 and Rule 62-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content  
API Gravity  
Density  
Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167173 and Rule 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

**NOTIFICATION REQUIREMENTS**

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

**REPORTING REQUIREMENTS**

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", including the *Emissions Report*, for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

The *Annual Operating Report* shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the *Annual Operating Report*, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors  
No. 2 Fuel Oil  
Pounds per MMBtu

Particulate Matter (PM)	0.061 (Total)
PM10	0.48PM
Carbon Monoxide	0.048
Nitrogen Oxides	0.698
Sulfur Dioxide	1.01s
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued On Next Page)

Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP-42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the original permit application the peak performance of the Bartow Peaking Unit No. 2. is:

Electrical Generating Rate:	55.7 MW per hour
Heat Input Rate:	714.0 MMBtu per hour
Fuel Usage Rate:	121.0 Barrels per hour

NOTE: For reference only, based on the original permit application, (714 MMBtu per hour) and AP-42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	<u>Pounds per Hour</u>	<u>Tons per Year</u>
Particulate Matter (Total)	43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
Nitrogen Oxides	498.37	2182.87
Hydrocarbons (TOC)	12.14	53.17

14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:

- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 2 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253216A  
Project: Bartow Peaking Unit  
No. 2

**SPECIFIC CONDITIONS:**

**RECORDKEEPING REQUIREMENTS**

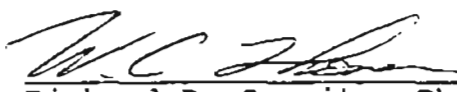
15. Florida Power Corporation shall maintain a monthly record of the hours of operation of the peaking unit. This record shall be updated monthly and shall be completed by the end of the following month. The records shall be maintained at the facility for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167173 and Rule 62-4.070(3), F.A.C.]

**PERMIT RENEWAL**

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

17. Florida Power Corporation is subject to the permitting requirements of Rule 62-213.420, F.A.C. - *Operation Permits for Major Sources of Air Pollution, Permit Applications*, and shall apply for a Title V operation permit by submitting a completed application, DEP Form 62-210.900(1), to the Division of Air Resources Management, Bureau of Air Regulation, Department of Environmental Protection (Tallahassee) by the appropriate date referenced in Rule 62-213.420(1)(a), F.A.C. The application shall include the test results from Specific Condition No. 16. A copy of the application and the test results from Specific Condition No. 16 shall also be submitted to the Air Permitting Section of the Southwest District Office (Tampa), the Department of Environmental Protection and to the Pinellas County Department of Environmental Management, Air Quality Division. [Rules 62-4.090(1) and 62-213.420, F.A.C.]

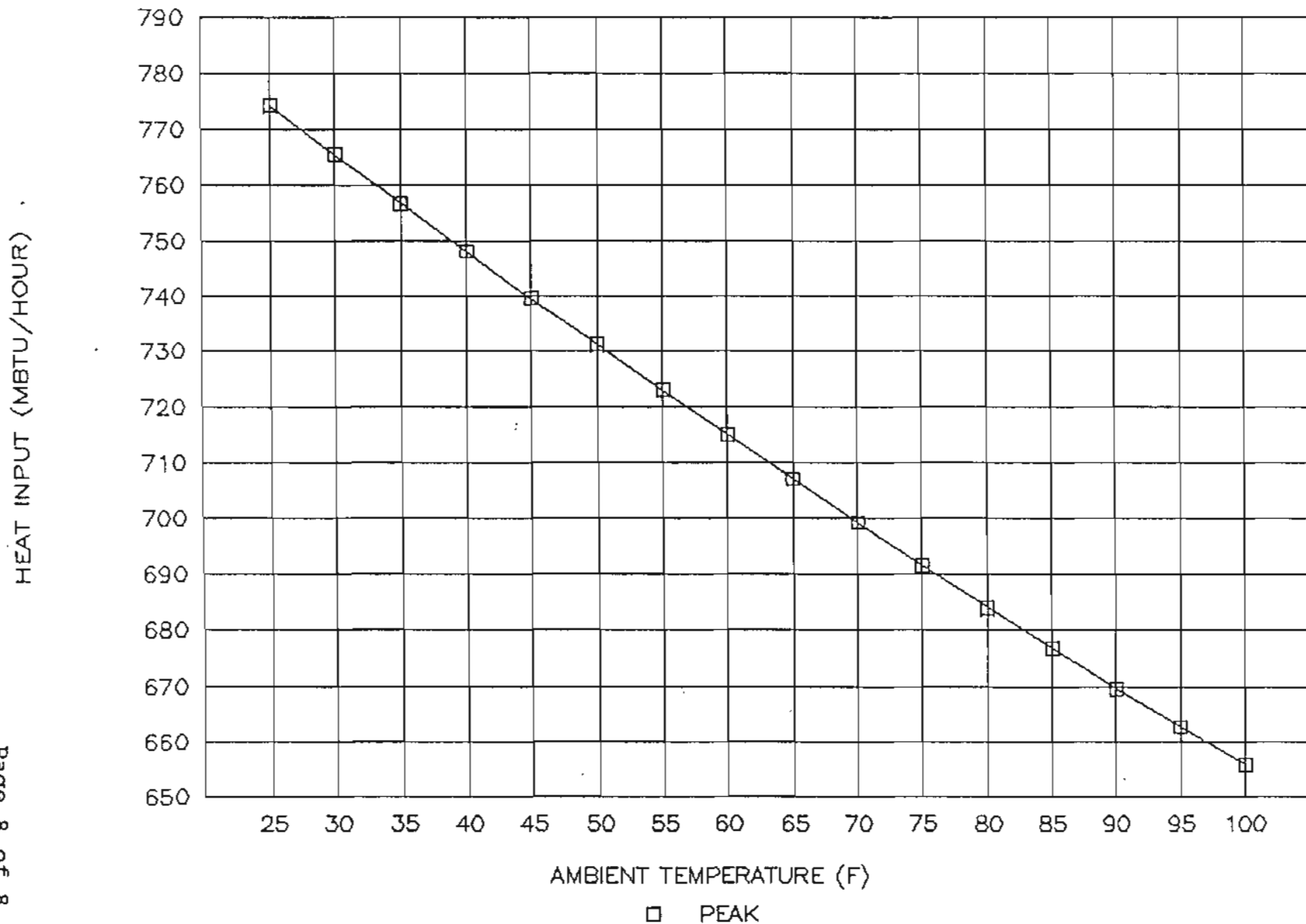
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

5fpc216a.pmt

# BARTOW COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



**ATTACHMENT - GENERAL CONDITIONS:**

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

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.



**GENERAL CONDITIONS:**

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

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

b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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



# Department of Environmental Protection

RECEIVED

JUN 20 1995

Environmental Svcs  
Department

Virginia B. Wetherell  
Secretary

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**PERMITTEE:**

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, Florida 33733

**PERMIT/PROJECT:**

Permit: AO52-253217A  
County: Pinellas  
Original Issue: 11/23/95  
Amended Date: 06/19/95  
Expiration Date: 11-01-99  
Project: Bartow Peaking Unit  
No. 3

This amended permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 3 and is composed of a General Electric Company, Serial No. 335X117 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217710 gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of *Fuel Heat Input versus Ambient Temperature* included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: Weedon Island, St. Petersburg, Pinellas County  
UTM: 17-342.18 E 3082.87 N  
NEDS No: 0011  
Point ID: 07

Replaces Permit AO52-253217, issued 11/23/94.

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

1. A part of this permit is the attached GENERAL CONDITIONS.  
[Rule 62-4.160, F.A.C.]

2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

**EMISSION LIMITATIONS**

3. Visible emissions from Bartow Peaking Unit No. 3 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

**OPERATION LIMITATIONS**

4. The hours of operation for Bartow Peaking Unit No. 3 are not restricted (8760 hours per year). [Specified in permit application]

5. The peak heat input rate of the Bartow Peaking Unit No. 3 turbine shall be determined from the graph of *Fuel Heat Input versus Ambient Temperature* shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]

6. The Bartow Peaking Unit No. 3 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

**TESTING AND COMPLIANCE REQUIREMENTS**

7. Test the Bartow Peaking Unit No. 3 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test can be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued On Next Page)

Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

7. (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).

[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 3 on Page 8 of this permit. The graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 3 is made a part of this permit. If it is not practical to test at the peak rate, then the source may be tested at less than the peak rate. In this case, subsequent source operation is then limited to 110 percent of the tested rate until a new test is conducted. Once the source is so limited, the maximum rate is then equal to 110 percent of the tested rate, and operation at a higher rate is only allowed for no more than 15 consecutive days for the purpose of additional compliance testing in order to regain the peak rate. Acceptance of a test by the Department of Environmental Protection will automatically amend this permit to a new maximum rate, but the new maximum rate shall not exceed the peak rate.

[Rules 62-297.570(2), 62-297.570(3), and 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

**MONITORING REQUIREMENTS**

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur limit of 0.5%, by weight is not exceeded, the permittee shall provide either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit A052-167174 and Rule 62-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content  
API Gravity  
Density  
Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167174 and Rule 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

**NOTIFICATION REQUIREMENTS**

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

**REPORTING REQUIREMENTS**

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors  
No. 2 Fuel Oil  
Pounds per MMBtu

Particulate Matter (PM)	0.061 (Total)
PM10	0.48PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued On Next Page)

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP-42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the original permit application the peak performance of the Bartow Peaking Unit No. 3. is:

Electrical Generating Rate:	55.7 MW per hour
Heat Input Rate:	714.0 MMBtu per hour
Fuel Usage Rate:	121.0 Barrels per hour

NOTE: For reference only, based on the original permit application, (714 MMBtu per hour) and AP-42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	<u>Pounds per Hour</u>	<u>Tons per Year</u>
Particulate Matter (Total)	43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
Nitrogen Oxides	498.37	2182.87
Hydrocarbons (TOC)	12.14	53.17

14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:

- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 3 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253217A  
Project: Bartow Peaking Unit  
No. 3

**SPECIFIC CONDITIONS:**

**RECORDKEEPING REQUIREMENTS**

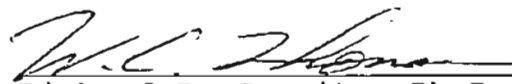
15. Florida Power Corporation shall maintain a monthly record of the hours of operation of the peaking unit. This record shall be updated monthly and shall be completed by the end of the following month. The records shall be maintained at the facility for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167174 and Rule 62-4.070(3), F.A.C.]

**PERMIT RENEWAL**

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

17. Florida Power Corporation is subject to the permitting requirements of Rule 62-213.420, F.A.C. - *Operation Permits for Major Sources of Air Pollution, Permit Applications*, and shall apply for a Title V operation permit by submitting a completed application, DEP Form 62-210.900(1), to the Division of Air Resources Management, Bureau of Air Regulation, Department of Environmental Protection (Tallahassee) by the appropriate date referenced in Rule 62-213.420(1)(a), F.A.C. The application shall include the test results from Specific Condition No. 16. A copy of the application and the test results from Specific Condition No. 16 shall also be submitted to the Air Permitting Section of the Southwest District Office (Tampa), the Department of Environmental Protection and to the Pinellas County Department of Environmental Management, Air Quality Division. [Rules 62-4.090(1) and 62-213.420, F.A.C.]

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

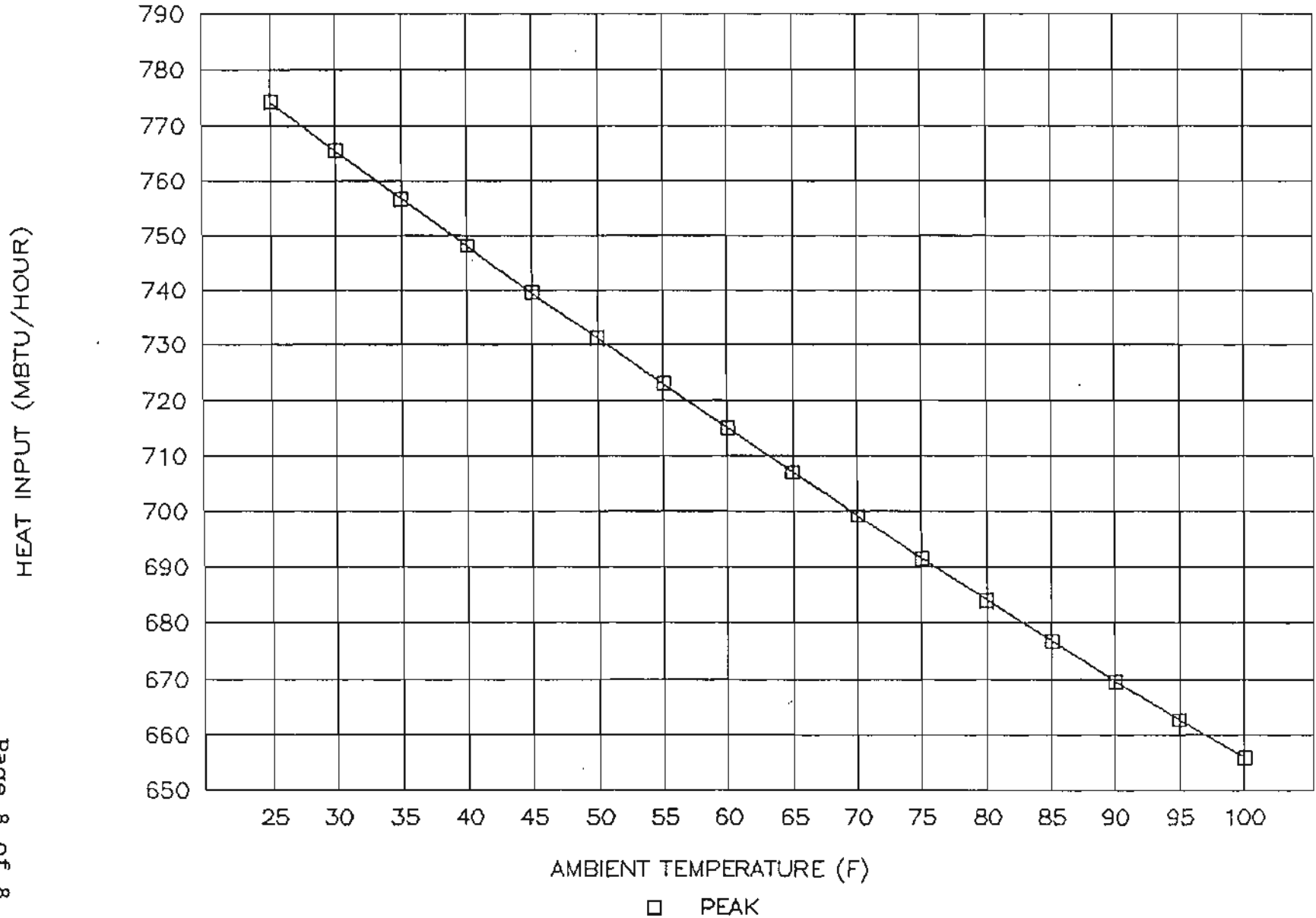
  
Richard D. Garrity, Ph.D.  
Director of District Management  
Southwest District

5fpc217a.pmt



# BARTOW COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



**ATTACHMENT - GENERAL CONDITIONS:**

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

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

**GENERAL CONDITIONS:**

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

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



# Department of Environmental Protection

RECEIVED

JUN 20 1995

Environmental Svcs  
Department

Virginia B. Wetherell  
Secretary

Lawton Chiles  
Governor

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619

**PERMITTEE:**

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, Florida 33733

**PERMIT/PROJECT:**

Permit: A052-253218A  
County: Pinellas  
Original Issue: 11/23/95  
Amended Date: 06/19/95  
Expiration Date: 11-01-99  
Project: Bartow Peaking Unit  
No. 4

This amended permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 4 and is composed of a General Electric Company, Serial No. 335X118 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217712 gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of *Fuel Heat Input versus Ambient Temperature* included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: Weedon Island, St. Petersburg, Pinellas County  
UTM: 17-342.18 E 3082.87 N  
NEDS No: 0011  
Point ID: 08

Replaces Permit A052-253218, issued 11/23/94.

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

1. A part of this permit is the attached GENERAL CONDITIONS. [Rule 62-4.160, F.A.C.]
2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

**EMISSION LIMITATIONS**

3. Visible emissions from Bartow Peaking Unit No. 4 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

**OPERATION LIMITATIONS**

4. The hours of operation for Bartow Peaking Unit No. 4 are not restricted (8760 hours per year). [Specified in permit application]
5. The peak heat input rate of the Bartow Peaking Unit No. 4 turbine shall be determined from the graph of *Fuel Heat Input versus Ambient Temperature* shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]
6. The Bartow Peaking Unit No. 4 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

**TESTING AND COMPLIANCE REQUIREMENTS**

7. Test the Bartow Peaking Unit No. 4 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test can be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued On Next Page)

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

7. (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).  
[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., *Stationary Sources - Emission Monitoring* and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 4 on Page 8 of this permit. The graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 4 is made a part of this permit. If it is not practical to test at the peak rate, then the source may be tested at less than the peak rate. In this case, subsequent source operation is then limited to 110 percent of the tested rate until a new test is conducted. Once the source is so limited, the maximum rate is then equal to 110 percent of the tested rate, and operation at a higher rate is only allowed for no more than 15 consecutive days for the purpose of additional compliance testing in order to regain the peak rate. Acceptance of a test by the Department of Environmental Protection will automatically amend this permit to a new maximum rate, but the new maximum rate shall not exceed the peak rate.  
[Rules 62-297.570(2), 62-297.570(3), and 62-4.070(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

**MONITORING REQUIREMENTS**

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur limit of 0.5%, by weight is not exceeded, the permittee shall provide either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit AO52-167175 and Rule 62-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content  
API Gravity  
Density  
Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit AO52-167175 and Rule 62-4.070(3), F.A.C.]



Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

**NOTIFICATION REQUIREMENTS**

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

**REPORTING REQUIREMENTS**

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

	Emission Factors No. 2 Fuel Oil <u>Pounds per MMBtu</u>
Particulate Matter (PM)	0.061 (Total)
PM10	0.48PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued On Next Page)

Florida Power Corporation  
St. Petersburg, Florida

Permit: AO52-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP-42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the original permit application the peak performance of the Bartow Peaking Unit No. 4. is:

Electrical Generating Rate:	55.7 MW per hour
Heat Input Rate:	714.0 MMBtu per hour
Fuel Usage Rate:	121.0 Barrels per hour

NOTE: For reference only, based on the original permit application, (714 MMBtu per hour) and AP-42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	<u>Pounds per Hour</u>	<u>Tons per Year</u>
Particulate Matter (Total)	43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
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Hydrocarbons (TOC)	12.14	53.17

14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:

- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of *Fuel Heat Input versus Ambient Temperature* for Peaking Unit No. 4 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Florida Power Corporation  
St. Petersburg, Florida

Permit: A052-253218A  
Project: Bartow Peaking Unit  
No. 4

**SPECIFIC CONDITIONS:**

**RECORDKEEPING REQUIREMENTS**

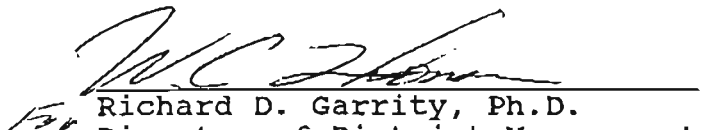
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**PERMIT RENEWAL**

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

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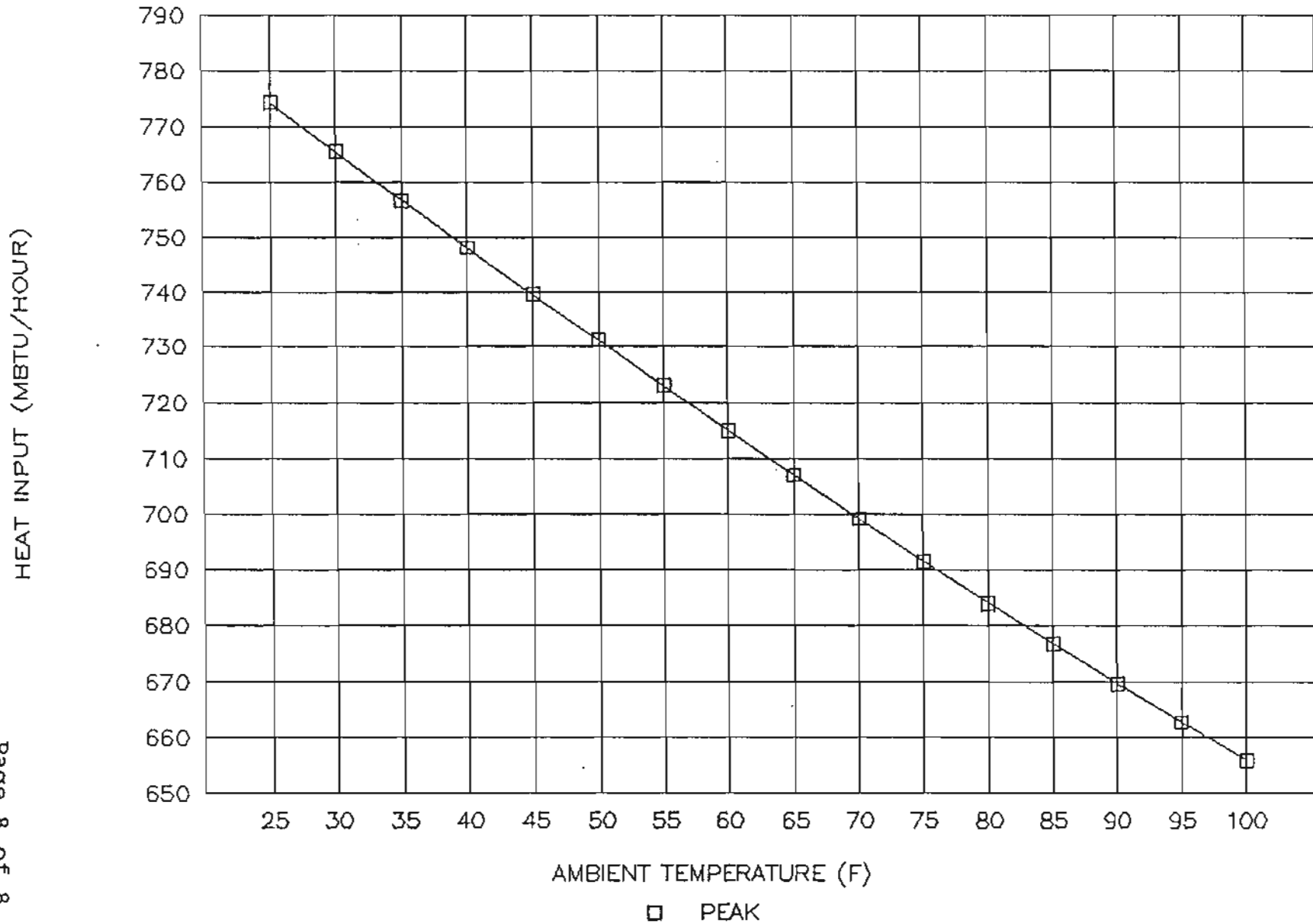
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

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# BARTOW COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



**ATTACHMENT - GENERAL CONDITIONS:**

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4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

**GENERAL CONDITIONS:**

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. a description of and cause of non-compliance; and
- b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

GENERAL CONDITIONS:

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
  - the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the dates analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

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

**ATTACHMENT BA-EU5-L13**  
**COMPLIANCE ASSURANCE MONITORING PLAN**



**ATTACHMENT BA-EU5-L13**

Compliance Assurance Monitoring Plan to be submitted to implementing agency by required date.  
See Section E, Pollutant Emission, for Method of Compliance for specific pollutant.

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Bartow No.1-Fly Ash System</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown <b>009</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters):          		

Emissions Unit Control Equipment Information

A.

1. Description (limit to 200 characters):  <b>Fabric Filter - Low Temperature</b>
2. Control Device or Method Code: <b>18</b>

B.

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C.

1. Description (limit to 200 characters):
2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:		
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer: <b>Flakt/Flex Kleen, Inc.</b>	Model Number: <b>90-VKE-16</b>	
4. Generator Nameplate Rating: <b>MW</b>		
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:	<b>4,000</b>	lb/hr
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
<b>Design fly ash transfer capacity</b>		

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
<b>24</b> hours/day		<b>7</b> days/week
<b>52</b> weeks/yr		<b>8,760</b> hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

**Not Applicable**

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU6-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: EU6	
2. Emission Point Type Code: <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <b>Emissions exhaust through a single stack</b>	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: <b>Not Applicable</b>	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	<b>25</b> feet
7. Exit Diameter:	<b>0.9</b> feet
8. Exit Temperature:	<b>77</b> °F



9. Actual Volumetric Flow Rate:	5 acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates:	
Zone: 17	East (km): 342.4      North (km): 3082.6
14. Emission Point Comment (limit to 200 characters):	

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Mineral Products - Bulk materials, storage bins</b>	
2. Source Classification Code (SCC):  <b>3-05-102-99</b>	
3. SCC Units:  <b>Tons Processed</b>	
4. Maximum Hourly Rate:  <b>2</b>	5. Maximum Annual Rate:  <b>17,520</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
PM	018		EL

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>PM</b>	
2. Total Percent Efficiency of Control:	<b>99 %</b>
3. Potential Emissions:	<b>1 lb/hour                      0.35 tons/year</b>
4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor:	<b>1 lb/hr</b>
Reference: <b>Vendor</b>	
7. Emissions Method Code:  <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>Permit condition</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Qualifies for RACT exemption with emission limit.</b>	

Emissions Unit Information Section 6 of 8**Allowable Emissions (Pollutant identified on front page)**

A.

1. Basis for Allowable Emissions Code: <b>OTHER</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>1 lb/hr</b>		
4. Equivalent Allowable Emissions:	<b>1 lb/hour</b>	<b>0.35 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Opacity limit, 5% or less</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Permit limit, RACT exemption, Rule 17-296.700(2)(c), F.A.C.; VE accepted by Rule 62-297.620(4).</b>		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype: <b>VE05</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>5</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>Annual compliance test - EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>VE test duration 30 minutes. Rule 62-297.620(4), F.A.C. VE test conducted when hoppers are full and unit is soot-blowing.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation \_\_\_\_ of \_\_\_\_

1.	Visible Emissions Subtype:
2.	Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:      %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance:
5.	Visible Emissions Comment (limit to 200 characters):

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

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	



**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
	SO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
	NO <sub>2</sub>	<input type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	0 lb/hour	0	tons/year
	NO <sub>2</sub>		0	tons/year
5.	PSD Comment (limit to 200 characters):			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU6-L1</u>	<input type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
2.	Fuel Analysis or Specification	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
3.	Detailed Description of Control Equipment	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU6-L3</u>	<input type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
4.	Description of Stack Sampling Facilities	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	<input type="checkbox"/> Waiver Requested
5.	Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Previously Submitted, Date: <u>22 Feb 1996</u>	<input type="checkbox"/> Not Applicable
6.	Procedures for Startup and Shutdown	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU6-L7</u>	<input type="checkbox"/> Not Applicable	
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable	

**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: <b>BA-EU6-L12</b> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU6-D**  
**EMISSION UNIT REGULATIONS**

**ATTACHMENT BA-EU6-D**

**EMISSION UNIT REGULATIONS**

Master Applicable Requirements Listing - Power Plants (5/13/96)

EMISSION UNIT: EU6: Unit 1 Fly Ash System- FPC Bartow Plant

FDEP Rules:

Stationary Sources-General:

- 62-210.650 - Circumvention
- 62-210.700(1)
- 62-210.700(4) - Maintenance
- 62-210.700(6)

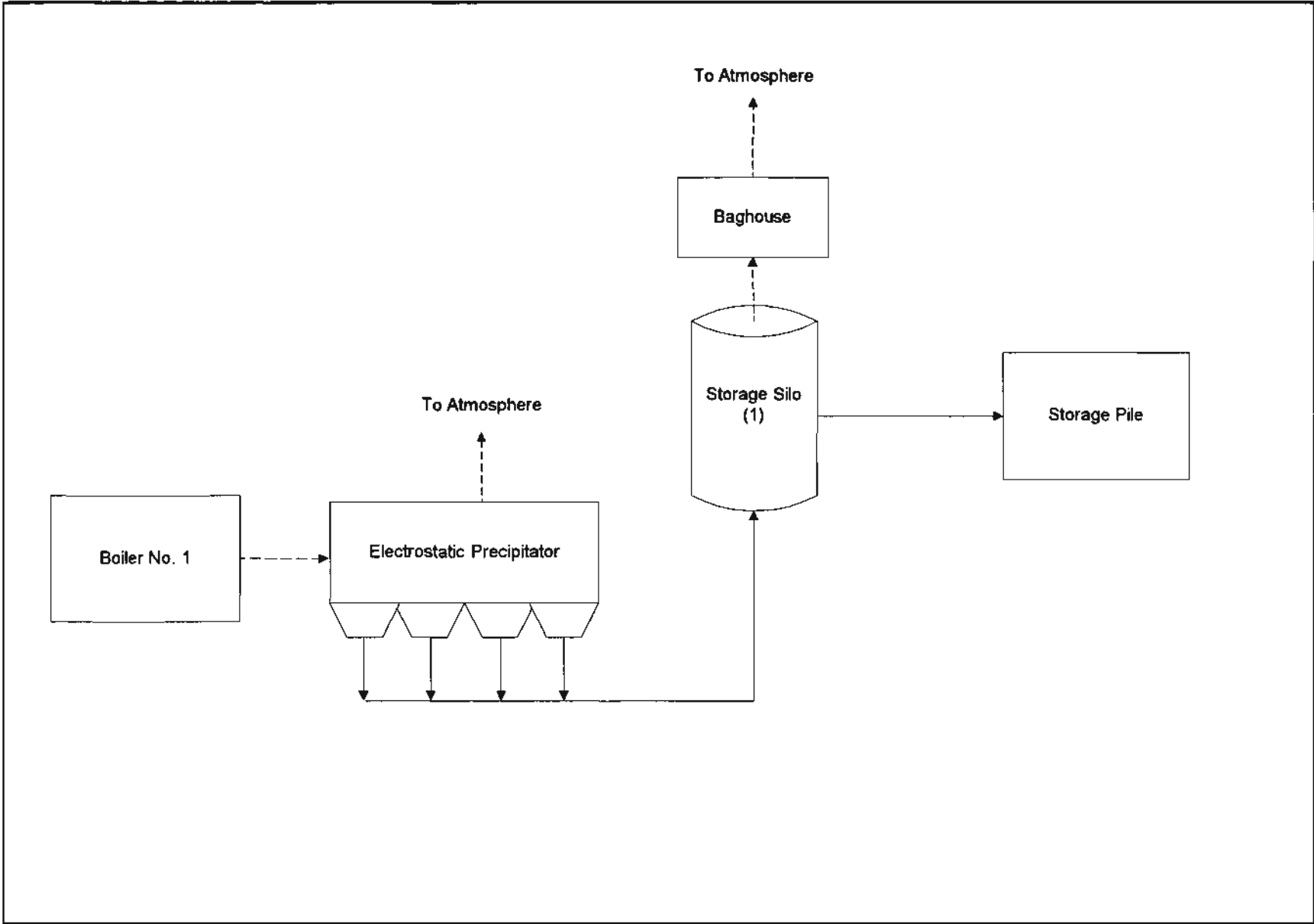
Stationary Sources-Emission Standards/RACT:

- 62-296.320(4)(a)(State Only)- Process Weight- (Unit has specific Limit for RACT)
- 62-296.320(4)(b)(State Only)- General VE

Stationary Sources-Emission Monitoring:

- 62-297.310(2)(b) - Operating Rate
- 62-297.310(4)(a)2. - Applicable Test Procedures;Sampling time
- 62-297.310(5) - Determination of Process Variables
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4.
- 62-297.310(7)(a)9. - FDEP Notification - 15 days
- 62-297.310(8) - Test Reports
- 62-297.620(4) - 5% Opacity in lieu of PM test

**ATTACHMENT BA-EU6-L1**  
**PROCESS FLOW DIAGRAM**



Process Flow Legend	
	Steam Flow
	Gas Flow
	Solid / Liquid Flow

Florida Power Corporation,  
Bartow Plant  
Process Flow Diagram

Emission Unit: Boiler No. 1 Fly Ash System
Process Area: Overall Plant
Filename: FPCBA.VSD
Latest Revision Date: 6/4/96 02:05 PM



Engineering and Applied Sciences, Inc.



**ATTACHMENT BA-EU6-L3**

**DETAILED DESCRIPTION OF CONTROL EQUIPMENT**

**ATTACHMENT BA-EU6-L3**

**DETAILED DESCRIPTION OF CONTROL EQUIPMENT**

**Bartow Unit 1 Fly Ash System Silo**

The silo is located in an area south of the plant in a control discharge area for fly ash.

The emissions from the silo is controlled by a Flakt/Flex Kleen, Inc. Model 90 uke-16-cloth filtration bag house. This system has the following parameters:

Area of filtration:	157 sq. ft.
Number of bags:	16
Fan capacity:	235 cu. ft.
Pressure across bags:	17 in H <sub>2</sub> O
Removal Efficiency:	99.9%
System Capacity:	4,000 lb/hr

**ATTACHMENT BA-EU6-L7**  
**OPERATION AND MAINTENANCE PLAN**

**[See Attachment BA-EU6-L12, Air Operating Permit No. AO52-232464,  
Specific Condition No. 12 and Amendments]**

**ATTACHMENT BA-EU6-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT AMENDMENT

RECEIVED

JAN 21 1994

Environmental Svcs  
Department

### CERTIFIED MAIL

Mr. W. Jeffrey Pardue  
Manager, Environmental Programs  
Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, FL 33733 /

Dear Mr. Pardue:

Re: Pinellas County - AP  
Bartow Plant Unit No. 1 Fly Ash System  
Permit Amendment  
A052-232464

The Department is in receipt of a request dated 9/14/93 from Mr. Scott H. Osbourn, Senior Environmental Engineer, Florida Power Corporation, to amend the above referenced air operation permit which was issued on 8/30/93. The permit has been amended as follows:

### DESCRIPTION, Changed to read as follows:

For the operation of Bartow Plant Unit No. 1 Fly Ash System. The design fly ash transfer capacity of the system to the storage silo is 4,000 pounds/hour. Emissions from the storage silo are controlled by a Flakt/Flex Kleen, Inc., Model 90-UKE-16 baghouse having a set of 16 filter bags. Each filter bag has a cloth filtration area of 157.0 square feet. The storage silo operates with a fan vent capacity of 235.0 scfm.

### SPECIFIC CONDITION NO. 4, Changed to read as follows:

4. The fly ash system storage silo shall be tested for visible emissions annually within 60 days prior to May 01. The compliance test report shall be submitted within 45 days after completion of the test to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rules 17-297.340(1)(a) and 17-297.450(2), F.A.C.).

### REVISED O & M PLAN:

The revised O & M Plan submitted on 9/14/93 for this source is being incorporated into the permit, replacing the existing O & M Plan.

A person whose substantial interests are affected by this permit amendment may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400 within 14 days of receipt of this permit amendment.

Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative proceeding (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department's Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the department's action or proposed action.


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

This permit amendment is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for an extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, Florida Administrative Code.

Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department. When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellant Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

This amendment letter must be attached to and becomes a part of permit number A052-232464. If you have any questions, please contact George Richardson in the Air Permitting Section at (813)744-6100, Ext. 420.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

3804 Coconut Palm Drive  
Tampa, FL 33619-8318  
(813)744-6100

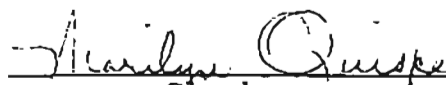
cc: Pinellas County Department of Environmental Management  
Albert W. Morneault, P.E., Florida Power Corporation  
Scott H. Osbourn, Florida Power Corporation

CERTIFICATE OF SERVICE

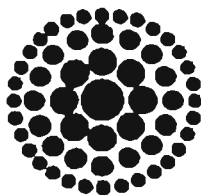
The undersigned duly designated Deputy Department Clerk hereby certifies that this Notice of Permit Amendment and all copies were mailed by certified mail before the close of business on JAN 18 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to Paragraph 120.52(11), Florida Statutes, with the designated Deputy Department Clerk, receipt of which is hereby acknowledged.

  
Clerk JAN 18 1994  
Date





**Florida  
Power**  
CORPORATION

bcc: B. J. Covey  
C. M. Forte  
G. E. Marks

File: BARA.1.1(3)

September 14, 1993

Dr. Richard Garrity  
Florida Department of Environmental Protection  
Southwest District  
3804 Coconut Palm Dr.  
Tampa, Florida 33619

Dear Dr. Garrity:

Re: Renewal of Air Permit for Florida Power Corporation Bartow Unit 1 Fly Ash System  
(Permit No. AO52-232464)

On September 1, 1993, Florida Power Corporation (FPC) received from the Department a renewed air permit for the above-referenced facility. This letter serves to transmit FPC's comments on the air operating permit renewal.

On page 1 of 4, the DEP made several changes in the description of the fly ash and storage silo system. Apparently, these changes are reflective of additional information submitted on these systems by FPC in fulfillment of the DEP's RACT O&M requirement. The second paragraph currently reads as follows: "Emissions from the storage silo are controlled by a Flakt, Inc. Model 90-UKE-16 Arrangement II baghouse having a set of 16 filter bags." This sentence should be revised to read: "Emissions from the storage silo are controlled by a Flakt/Flex Kleen, Inc. Model 90-UKE-16 baghouse having a set of 16 filter bags."

Specific Condition 4 currently states that the fly ash system storage silo shall be tested for visible emissions annually within 60 days *prior* to March 16. FPC requests that the wording be changed to state "within 60 days *of* March 16."

Finally, FPC has attached a revised O&M plan for inclusion in the permit. The only changes made were to revise the permit number in the title heading of the O&M Plan and to clean up the tabular format on the maintenance frequency section.

Dr. Garrity  
Page 2  
September 14, 1993

If you should have any questions or require additional information, please do not hesitate to contact me at (813)866-5158.

Sincerely,



Scott H. Osbourn  
Senior Environmental Engineer

Attachment

cc: George Richardson, Southwest District DEP  
Gary Robbins, Pinellas County  
Al Morneault, P.E., FPC

Bartow Flyash System  
Operation and Maintenance Plan  
Permit Number A052-232464

Operating Parameters and Operational Checks

Flyash Air Compressors supply air as the conveying medium for flyash transport to the silo and air for instrumentation. The compressors are Ingersoll-Rand Model SSR-1000 rotary screw type. The air supply system design pressure is 100 psi with air consumption of 92 scfm average and 117 scfm peak.

Design flyash transport capacity is a maximum of 4,000 lb/hr.

The silo operates with a vent fan capacity of 235 scfm. The silo operates at approximately 4"WG vacuum. The silo exhausts to a set of 16 FLAKT/Flex Kleen 90-UKE-16 filter bags. Each filter bag has a cloth area of 157 sq. ft. designed for pressures of + or - 17"WG.

The rotary feeder, dustless unloader and belt conveyor have a design capacity of 5 tons per hour. Water is supplied to the dustless unloader at 40 psig.

Operational checks made every shift are shown below.

Flyash Compressors/Air Supply

- Check oil levels and check for oil leaks
- Check for proper discharge pressures (120-140 psig)
- Check for air dryer and filter operation @ pressure drop less than 10 psi
- Check that backup compressor and dryer are ready for service
- Check for proper pressure from receiver tank to system (80 to 100 psi)
- Check for receiver tank air leaks

Flyash Storage Silo

- Check for continuous operation of silo vent fan and shaker
- Check controls for rotary and dustless unloaders and belt conveyor
- Check for leaks around silo and ash transport lines
- Clean area after operation of system

## Maintenance Plan

The maintenance intervals shown below are in accordance with manufacturer's recommendations. It should be noted that manufacturers do not specify exact intervals, but give guidance depending on site-specific variables.

	<u>Mthly</u>	<u>Qrtly</u>	<u>4 mos</u>	<u>6 mos</u>	<u>Annual.</u>
<b>Flyash Compressors</b>					
- Drain oil from separator/refill				X	
- Clean separator				X	
- Replace element inside separator				X	
- Change oil and air filters				X	
- Clean scavenger orifice screen				X	
- Check bolts and condensate trap				X	
-Grease bearings and electrical checks on motors*					
 <b>Receiver Tank</b>					
-Clean inside		X			
-Replace door gasket		X			
 <b>Air Supply System</b>					
-Dig transport lines	X				
-Change in-line filters/air dryers	X				
-Check drain lines/clean as necessary	X				
 <b>Flyash Storage Silo</b>					
-Filter bags (16) inspect and or replace			X		
-Bearings on conveyor - grease		X			
-Bearings on unloader - grease		X			
-Bearings on all motors - grease*					
-Rotary valve bearings - grease					X

\*Varies per manufacturer

## Spare Parts

The following is a list of major items stocked for critical pieces of equipment. There are many small parts such as switches, small valves, gaskets, fasteners, seals, instrumentation etc., that are too numerous to list. Quantities of spare parts vary with time of the year, determination of need as equipment ages and economic reorder quantities (ie: pricing in quantities).

Fly Ash Compressors (most major replacement parts are stocked)

- Coolant in 5 gallon containers
- Seal Oil
- Air dryer filters
- Orifices
- Pressure regulator
- Separator element
- Scavenge screen
- Moisture trap

Ash Transmitters/Silo/Vent Fan/Unloader/Conveyor

- Transmitter isolation and safety relief valves
- Rotary feeder worm gears, shafts and bearings
- Conveyor belt 109 foot section
- Conveyor drive pulley and roller
- Dustless unloader bearings, bearing housing, drive socket
- Silo filter bags - approximately 80 kept on hand



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

RECEIVED

SEP 01 1993

Environmental Svcs  
Department

### CERTIFIED MAIL

Mr. W. Jeffrey Pardue  
Manager, Environmental Programs  
Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, FL 33733 /

DER File No.: A052-232464  
County: Pinellas

Enclosed is Permit Number A052-232464 to operate Bartow Plant Unit No. 1 Fly Ash System, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 297 & 17-4.

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

The Petition shall contain the following information:

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

Mr. W. Jeffrey Pardue  
St. Petersburg, FL 33733

Page Two

(d) A statement of the material facts disputed by petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

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

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

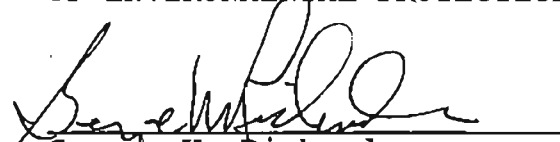
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of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

Mr. W. Jeffrey Pardue  
St. Petersburg, FL 33733

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
George W. Richardson  
Air Permitting Engineer  
Southwest District

3804 Coconut Palm Drive  
Tampa, FL 33619-8318  
(813)744-6100, Ext. 420

813 744-6083 FAX

cc: Albert W. Morneault, P.E., Florida Power Corporation  
Pinellas County Department of Environmental Management

Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on AUG 30 1993 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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

  
Clerk

AUG 30 1993  
Date





Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Southwest District  
3804 Coconut Palm Drive  
Tampa, Florida 33619  
813-744-6100

Virginia B. Wetherell  
Secretary

PERMITTEE:

Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, FL 33733 /

PERMIT/CERTIFICATION

Permit No: A052-232464  
County: Pinellas  
Expiration Date: 8-26-98  
Project: Bartow Plant Unit  
No. 1 Fly Ash System

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 299 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of Bartow Plant Unit No. 1 Fly Ash System. The design fly ash transfer capacity of the system to the storage silo is 4,000 pounds/hour. Emissions from the storage silo are controlled by a Flakt, Inc. Model 90-UKE-16 Arrangement II baghouse having a set of 16 filter bags. Each filter bag has a cloth filtration area of 157.0 square feet. The storage silo operates with a vent fan capacity of 235.0 scfm.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-342.3 E 3082.7 N NEDS NO: 0011 Point ID: 09

Replaces Permit No.: A052-149203

PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-232464  
Project: Bartow Plant Unit  
No. 1 Fly Ash System

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. At the request of Florida Power Corporation the maximum allowable emission rate of particulate matter from the fly ash system shall not exceed 1.0 pounds/hour and 0.35 tons/year in order to qualify for the particulate RACT exemption as specified in Rule 17-296.700(2)(c), F.A.C.
3. Due to the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.
4. The fly ash system storage silo shall be tested for visible emissions annually within 60 days prior to March 16. The test report shall be submitted within 45 days after the test is completed to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rules 17-297.340(1)(a) and 17-297.450(2), F.A.C.).
5. Compliance with the visible emissions limitation of Specific Condition No. 3 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The fly ash transfer rate to the storage silo during the compliance test shall be specified in the test report. The minimum requirements for source sampling and reporting shall be in accordance with Rule 17-297, F.A.C.
6. Testing of emissions must be conducted within 90-100% of the maximum permitted fly ash system transfer capacity to the storage silo of 4,000 pounds/hour. A compliance test submitted at an operating rate less than 90% of maximum permitted rate will automatically constitute an amended permit at the lesser rate until another test showing compliance at a higher rate, not to exceed 4,000 pounds/hour, is submitted. Failure to submit the fly ash transfer rate to the storage silo and actual operating conditions may invalidate the test (Rule 17-4.070(3), F.A.C.).
7. Florida Power Corporation shall notify the Pinellas County Department of Environmental Management, Air Quality Division at least 15 days prior to the date on which each formal compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).
8. Bartow Plant Unit No. 1 Fly Ash System is permitted to operate continuously, 8,760 hours/year.

PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-232464  
Project: Bartow Plant Unit  
No. 1 Fly Ash System

9. Should the Department or the Pinellas County Department of Environmental Management, Air Quality Division have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C (Rule 17-297.620(4), F.A.C.).

10. The maximum permitted fly ash transfer capacity to the storage silo shall not exceed 4,000 pounds/hour (permit application dated 6/3/93).

11. Submit to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division each calendar year on or before March 1, completed DER Form 17-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding year (Rule 17-210.370(2), F.A.C.).

12. Florida Power Corporation shall follow the Operation & Maintenance (O&M) Plan submitted with the renewal application received June 4, 1993 for Bartow Plant Unit No. 1 Fly Ash System, in accordance with Pinellas County Ordinance 89-70, Section 3, Part 2.230(1)&(2), adopted January 2, 1990. The submitted O&M Plan is made a part of this permit. The O&M Plan documentation logs shall be maintained for a minimum of two years. At a minimum the O&M Plan shall include:

- A. The operating parameters of the pollution control device.
- B. Time table for the routine maintenance of the pollution control device as specified by the manufacturer.
- C. Time table for routine weekly, bi-weekly, or monthly observations of the pollution control device.
- D. A list of the type and quantity of the required spare parts for the pollution control device which are stored on the premises.
- E. A record log which will indicate, at a minimum:
  - 1. When maintenance was performed.
  - 2. What maintenance was performed.
  - 3. Who performed the maintenance.

13. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling.

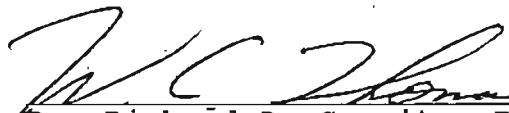
PERMITTEE:  
Florida Power Corporation

Permit No.: A052-232464  
Project: Bartow Plant Unit  
No. 1 Fly Ash System

14. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210.300, F.A.C.).

15. Three applications for the renewal of this operating permit shall be submitted to the Air Section of the Department's Southwest District Office and one copy of the application shall be submitted to the Pinellas County Department of Environmental Management, Air Quality Division at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

3804 Coconut Palm Drive  
Tampa, FL 33619-8318  
(813)744-6100

ATTACHMENT - GENERAL CONDITIONS:

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

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
- (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit;
- (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- ( ) Determination of Best Available Control Technology (BACT)
- ( ) Determination of Prevention of Significant Deterioration (PSD)
- ( ) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- ( ) Compliance with New Source Performance Standard

14. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
  1. the date, exact place, and time of sampling or measurements;
  2. the person responsible for performing the sampling or measurements;
  3. the dates analyses were performed;
  4. the person responsible for performing the analyses;
  5. the analytical techniques or methods used;
  6. the results of such analyses.

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

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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



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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Facility-wide Fugitive/DeMinimis Emissions</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input checked="" type="checkbox"/> Unknown		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>See Attachment BA-EU7-B6</b>		

**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment 1 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Petroleum Product Storage - Fugitive Emissions (Storage)</b>	
2. Source Classification Code (SCC):  <b>4-03-888-01</b>	
3. SCC Units:  <b>Thousand Gallons Stored</b>	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:  <b>46,450</b>	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):  <b>Segment refers to combined storage capacity of various petroleum product storage tanks contained in emission unit at time permit appl. submittal. See Attachment BA-EU7-B6 for list.</b>	

**Segment Description and Rate:** Segment 2 of 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): <b>Petroleum Product Storage - Fugitive Emissions (Throughput)</b>	
2. Source Classification Code (SCC): <b>4-03-999-99</b>	
3. SCC Units: <b>Thousand Gallons Throughput</b>	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: <b>1,361,200</b>	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters): <b>Segment refers to combined throughput of various petroleum product storage tanks contained in emission unit at time permit appl. submittal. See Attachment BA-EU7-B6 for list.</b>	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- ] 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 the source 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 the source 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 the 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	<input type="checkbox"/> ] C	<input type="checkbox"/> ] E <input checked="" type="checkbox"/> ] Unknown
	SO <sub>2</sub>	<input type="checkbox"/> ] C	<input type="checkbox"/> ] E <input checked="" type="checkbox"/> ] Unknown
	NO <sub>2</sub>	<input type="checkbox"/> ] C	<input type="checkbox"/> ] E <input checked="" type="checkbox"/> ] Unknown
4.	Baseline Emissions:		
	PM	lb/hour	tons/year
	SO <sub>2</sub>	lb/hour	tons/year
	NO <sub>2</sub>		tons/year
5.	PSD Comment (limit to 200 characters):		
	<b>Baseline emissions not known.</b>		

**ATTACHMENT BA-EU7-B6**  
**EMISSIONS UNIT COMMENT**



### **TRIVIAL ACTIVITIES**

The trivial activities identified in this application are provided for information only and are identified as examples of, but not limited to, the trivial activities identified by the Division of Air Resources Management's (DARM's) guidance. It is understood that such activities do not have to be included in with the Title V Application. The trivial activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in DARM's guidance.

### **NOTIFICATION OF TEMPORARY EXEMPTIONS**

Pursuant to Rule 62-210.300(3)(b)1., notice is herein provide that the emissions units listed below are not subject to a permit issued by the Department of Environmental Protection and are exempt from permitting until a final determination is made under the Title V permitting requirements (Rule 62-213 F.A.C.). These units would not have triggered review under Rules 62-212.400 or 62-212.500 or any new source performance standard listed in Rule 62-204.800 F.A.C.

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
Administrative Offices	Office Equipment Operation	TR
	Routine Repairs	TR
	Heating & Cooling Systems	TR (Except Part 82)
Water Laboratory	Solvent Use and Hood- chemical analyses for water	TR/ER
	Flammable chemical cabinet- storage, closed - flammables, HCl, ammonia, etc.	TR/ER
Water Treatment	Sulfuric acid tank - 3,041 gal. (w/ demister)	TR
	Caustic tank - 2,233 gal. (w/ demister)	TR
	Flammable liquid cabinet- chemicals	TR
	Demineralizer system- carbon filter chemical cabinet (molybdate, ammonium hydroxide, etc.)	TR
	Reverse osmosis system	TR
	Reverse Osmosis Water Tank (1)- near warehouse	TR
	Reverse Osmosis Water Tanks (2)- north Unit 3	TR
Machine shop	Sand blaster, drill press, welding, lathes, hand- -held tools, etc.	ER/TR
	Cabinets with solvents, oils, flammables, etc.	TR
	Routine maintenance	TR
	Parts washer- light oil	TR
	Cylinders (acetylene, N2, O2, argon, CO2., etc.)	TR
General Boiler Building-	Boiler Treatment (basement)- Eliminox (oxygen scavenger)- 55 gal. drums Morpholene- 55 gal. drums	TR
	Emergency diesel generator (basement)- fuel oil tank (300 gal.)	UR

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
	Waste oil recovery- 55 gal. drums Used oil recovery- 55 gal.	TR
	Electric shop flammable liquid cabinet (oils, solvents, paints)	TR
	Sand blaster, drill press, welding, lathes, hand- -held tools, etc.	TR
	Cabinets with solvents, oils, flammables, etc.	TR
	Flammable liquid cabinets (oils, solvents, paints, etc.)	TR
	Paint cabinets- closed	TR
	Fire protection equipment	ER/TR
Steam Unit 1	Various Steam Vents & Pressure Relief Valves	TR
	Condensate and Blow- down vents	TR
	Building Ventilation	TR
	Condensate Tank	TR
	Turbine lube oil reservoir tank	TR
	Waste oil sump and recovery tank	TR
	Oil gun cleaning station (No. 2 oil used)	TR
Steam Unit 2	Various Steam Vents & Pressure Relief Valves	TR
	Condensate and Blow- down vents	TR
	Building Ventilation	TR
	Condensate Tank	TR
	Turbine lube oil reservoir tank	TR
	Waste oil sump and recovery tank	TR

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
Steam Unit 3	Oil gun cleaning station (No. 2 oil used)	TR
	Various Steam Vents & Pressure Relief Valves	TR
	Condensate and Blow-down vents	TR
	Building Ventilation	TR
	Condensate Tank	TR
	Turbine lube oil reservoir tank	TR
	Waste oil sump and recovery tank	TR
North Terminal	Oil gun cleaning station (No. 2 oil used)	TR
	Pump Building Transfer pumps (electric)- move oil to plant, tank to tank	TR
	Outdoor Yard Maintenance Building Emergency oil boom, boat storage	TR
	Lawn mowers, maintenance equipment; lawn maintenance	TR
	Diesel fire pump building Flammable liquid cabinet, hydraulic oil	ER
	Diesel engine- Cummings 175 hp No. 2 oil tank - 150 gal.	UR/ER
	Batteries	TR
	Transformers	
	Foam Building Nat. foam XL- 3%; 2,600 gal.	ER/TR
	Fuel Forwarding Pumps	TR
South Terminal	Stores Department Flammable storage cabinets	TR
	Gasoline tank, filling station	UR

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
	Bulk storage- equipment	TR
	Machine shop (rear of building) Sand blaster, drill press, welding, lathes, hand- -held tools, etc.	ER/TR
	Cabinets with solvents, oils, flammables, etc.	TR
	Routine maintenance	TR
	Cylinders (acetylene, N2, O2, argon, CO2., etc.)	TR
	Storage Building Sealed drums- oil, lumin-ox	TR
	Oil Pump House Heater	TR
	No. 2 oil storage tank	UR
Turbine- Maintenance	Sand blaster, drill press, welding, lathes, hand- -held tools, etc.	TR
Turbine- Storage shed	Paints, spray pints- closed containers	TR
Turbine- Fire protection	CO2 Fire System	ER/TR
Turbine- Solvent storage	Navee cleaner storage tank (4 x 4 x 4)	TR/UR
Gas Turbine 1 (GT 2, 3, 4)	One GT per Generator	
	Lube Oil Vent with demister	UR
	Lube oil storage tank (underground)- 2600 gal.	UR
	Waste oil storage tank- 500 gal.	UR
	Ventilation	TR
	Turbine cooling- 175 gal. 50% glycol/50% water mix.	TR
	Batteries (14)	TR
	Routine Maintenance	TR
Turbine- wastewater runoff	Underground cable trays, pumped to ww system 500 gal. holding tank	TR

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
Fuel Storage	Tank No.1- No. 6 Fuel Oil 150,000 bbls	UR
	Tank No.2- No. 6 Fuel Oil 150,000 bbls	UR
	Tank No.3- No. 6 Fuel Oil 150,000 bbls	UR
	Tank No.4- No. 6 Fuel Oil 200,000 bbls	UR
	Tank No.5- No. 6 Fuel Oil 200,000 bbls	UR
	Tank No.6- No. 2 Fuel Oil 100,000 bbls	UR
	Tank No.7- No. 6 Fuel Oil 259,000 bbls	UR
	Tank No.8- No. 6 Fuel Oil 259,000 bbls	UR
	Foam Fire Protection System	ER
Flyash Handling System	Fly ash disposal	UR
General Site	Surface Coating < 6.0 gal/day	ER
	Brazing, Soldering or Welding	ER
	Plant Grounds Maintenance	TR
	Routine Maintenance	TR
	Oil water separators	TR
	CEM Equipment & Calibration (near Unit 2) SO <sub>2</sub> , NO <sub>2</sub> , calibration gases	TR
	Cylinder tank storage area (near Unit 3) acetylene, N <sub>2</sub> , O <sub>2</sub> , argon, CO <sub>2</sub> , etc.	TR

Attachment BA-EU7-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Bartow Plant, Unregulated Emissions Unit

Area	Emission Unit Description	Status
	Liquid propane gas tanks (2- 500 gal.) used to light off ignitors for Units 2, 3	UR
	Compressed Air System & Misc. Compressors	TR
Substation	Transformers and Associated Equipment	TR
Parking Lot	Vehicles	ER/TR

Note: ER = Exempt by Rule 62-210.300(3)(a); TR = Trivial; UR = Unregulated.

Attachment BA-EU7-B6  
General Emissions Unit Information

Table 2. FPC, Bartow Plant, Petroleum Product Storage and Throughput Operations

FPC Tank No.	Storage Product	Storage Tank Size (gallons)	Potential Annual Throughput (gallons)
CT #01(2R)	Waste oil	5,509	1100
CT #02 (3R)	Waste oil	5,509	1100
CT #03 (4R)	Waste oil	5,509	1100
CT #04 (5R)	Waste oil	5,509	1100
CT #6 (11)	No. 2 fuel oil	4,118,142	178,704,000
CT #7, #8	Empty		Empty
#1 (1R)	Unleaded gas	1,008	22,000
#2 (16)	No. 2 fuel oil	34,128	Empty
#4 (7)	No. 6 fuel oil	6,354,768	274,836,200
#5 (8)	COM (abandoned)		Empty
#9 (18)	Fuel oil additive (abandoned)		Empty
#12	Diesel (emerg. fire pump)	100	200
#13	Diesel (emerg. gen.)	200	400
#15 (6)	Diesel (vehicle)	550	5,000
#16 (19)	Fuel additive	5,460	80,000
Boiler Day Tk (15)	No. 2 fuel oil	18675	20,000
Terminal #1 (9)	No. 6 fuel oil	6,329,232	150,000,000
Terminal #2 (10)	No. 6 fuel oil	8,447,544	195,000,000
Terminal #3 (12)	No. 6 fuel oil	10,540,740	300,000,000
Terminal #4 (13)	No. 6 fuel oil	10,542,294	262,500,000
Terminal #5 (14)	Scheduled for demolish.		
Substation #1	Cable oil	16,002	0
Substation #2	Cable oil	16,002	0
	TOTAL	46,446,881	1,361,172,200



**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

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

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

**Emissions Unit Description and Status**

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>3-820 kw Diesel Generators (Relocatable)</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input checked="" type="checkbox"/> Unknown		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Emissions Unit Major Group SIC Code: <b>49</b>
6. Emissions Unit Comment (limit to 500 characters): <b>Generators may be located at one of seven FPC plants</b>		

**Emissions Unit Control Equipment Information**

**A.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**B.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C.**

1. Description (limit to 200 characters):
2. Control Device or Method Code:

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

**Emissions Unit Details**

1. Initial Startup Date:		
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer: <b>Caterpillar</b>	Model Number: <b>3508-DITA</b>	
4. Generator Nameplate Rating: <b>MW</b>		
5. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	<b>9</b>	mmBtu/hr
2. Maximum Incineration Rate:	lbs/hr	tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Operating Capacity Comment (limit to 200 characters):		
<p><b>Generator Nameplate Rating: 0.82 MW. Maximum Heat Input Rate = 8.58 MMBtu/hr (rounded to 9 MMBtu/hr). Per unit; hours of operation is sum of individual hours of each generator.</b></p>		

**Emissions Unit Operating Schedule**

1. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/yr	<b>2,970</b> hours/yr

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

**Rule Applicability Analysis** (Required for Category II Applications and Category III applications involving non Title-V sources. See Instructions.)

[Empty box for Rule Applicability Analysis]

**List of Applicable Regulations** (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

See Attachment BA-EU8-D

**E. EMISSION POINT (STACK/VENT) INFORMATION**  
**(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram:	
2. Emission Point Type Code:  <input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4	
3. Descriptions of Emissions 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:	
5. Discharge Type Code: <input type="checkbox"/> D <input type="checkbox"/> F <input type="checkbox"/> H <input type="checkbox"/> P <input type="checkbox"/> R <input checked="" type="checkbox"/> V <input type="checkbox"/> W	
6. Stack Height:	15 feet
7. Exit Diameter:	1 feet
8. Exit Temperature:	1,004 °F

9. Actual Volumetric Flow Rate:	7,283 acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	feet
13. Emission Point UTM Coordinates:	
Zone:	East (km): North (km):
14. Emission Point Comment (limit to 200 characters):	



**F. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(Regulated and Unregulated Emissions Units)**

**Segment Description and Rate:** Segment  1  of  1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Internal Combustion Engine, Electric Generation, Distillate Oil (diesel)</b>	
2. Source Classification Code (SCC):  <p style="text-align: center;"><b>2-01-001-02</b></p>	
3. SCC Units:  <p style="text-align: center;"><b>Thousand Gallons Burned</b></p>	
4. Maximum Hourly Rate:  <p style="text-align: center;"><b>62.1</b></p>	5. Maximum Annual Rate:  <p style="text-align: center;"><b>184</b></p>
6. Estimated Annual Activity Factor:  	
7. Maximum Percent Sulfur:  <p style="text-align: center;"><b>0.5</b></p>	8. Maximum Percent Ash:  <p style="text-align: center;"><b>0.1</b></p>
9. Million Btu per SCC Unit:  <p style="text-align: center;"><b>138</b></p>	
10. Segment Comment (limit to 200 characters):  <p style="text-align: center;"><b>Million Btu per SCC Unit = 138.24 (rounded to 138). Max annual rate based on total for 3 units (2,970 hours).</b></p>	

**Segment Description and Rate:** Segment \_\_\_\_\_ of \_\_\_\_\_

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):	
2. Source Classification Code (SCC):	
3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit:	
10. Segment Comment (limit to 200 characters):	

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO <sub>2</sub>			EL
NO <sub>x</sub>			NS
CO			NS

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

**Pollutant Detail Information:**

1. Pollutant Emitted: <b>SO2</b>	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	<b>4.47 lb/hour                      6.64 tons/year</b>
4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive/Other Emissions:  <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3    _____ to _____ tons/yr	
6. Emission Factor: <b>0.5 %Sulfur Content</b>  Reference: <b>Permit Limit</b>	
7. Emissions Method Code:  <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters):  <b>From Manufacturer</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>LB/HR - 1 unit; Tons/yr - 1 unit at 2,970 hours (total limit for 3 units)</b>	

Emissions Unit Information Section 8 of 8  
Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code: <b>OTHER</b>		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units: <b>0.5 %Sulfur Content</b>		
4. Equivalent Allowable Emissions:	<b>4.47</b> lb/hour	<b>6.64</b> tons/year
5. Method of Compliance (limit to 60 characters): <b>Fuel Analysis</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Permit Limit</b>		

B.

1. Basis for Allowable Emissions Code:		
2. Future Effective Date of Allowable Emissions:		
3. Requested Allowable Emissions and Units:		
4. Equivalent Allowable Emissions:	lb/hour	tons/year
5. Method of Compliance (limit to 60 characters):		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):		

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

**Visible Emissions Limitations:** Visible Emissions Limitation 1 of 1

1.	Visible Emissions Subtype: <b>VE20</b>
2.	Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions: <b>20</b> %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance: <b>EPA Method 9, annual</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>Rule 62-296.320(4)(b)1.</b>

**Visible Emissions Limitations:** Visible Emissions Limitation \_\_\_\_\_ of \_\_\_\_\_

1.	Visible Emissions Subtype:
2.	Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3.	Requested Allowable Opacity Normal Conditions:      %      Exceptional Conditions:      % Maximum Period of Excess Opacity Allowed:      min/hour
4.	Method of Compliance:
5.	Visible Emissions Comment (limit to 200 characters):

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

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**Continuous Monitoring System** Continuous Monitor \_\_\_\_\_ of \_\_\_\_\_

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement: [ ] Rule [ ] Other	
4. Monitor Information: Monitor Manufacturer: Model Number:	Serial Number:
5. Installation Date:	
6. Performance Specification Test Date:	
7. Continuous Monitor Comment (limit to 200 characters):	

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT  
TRACKING INFORMATION  
(Regulated and Unregulated Emissions Units)**

**PSD Increment Consumption Determination**

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

- ] 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 the 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 the 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?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

- 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 the source 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 the source 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 the 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	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
	SO <sub>2</sub>	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
	NO <sub>2</sub>	<input checked="" type="checkbox"/> C	<input type="checkbox"/> E	<input type="checkbox"/> Unknown
4.	Baseline Emissions:			
	PM	lb/hour		tons/year
	SO <sub>2</sub>	lb/hour		tons/year
	NO <sub>2</sub>			tons/year
5.	PSD Comment (limit to 200 characters):			
	<b>Relocatable source</b>			

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION**  
**(Regulated Emissions Units Only)**

**Supplemental Requirements for All Applications**

1.	Process Flow Diagram	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU8-L1</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
2.	Fuel Analysis or Specification	<input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU8-L2</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
3.	Detailed Description of Control Equipment	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
4.	Description of Stack Sampling Facilities	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Waiver Requested
		<input checked="" type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
		<input type="checkbox"/> Previously Submitted, Date: _____	
6.	Procedures for Startup and Shutdown	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
8.	Supplemental Information for Construction Permit Application	<input type="checkbox"/> Attached, Document ID: _____	<input checked="" type="checkbox"/> Not Applicable
9.	Other Information Required by Rule or Statute	<input type="checkbox"/> Attached, Document ID: _____	<input type="checkbox"/> Not Applicable

**Additional Supplemental Requirements for Category I Applications Only**

10. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements <input checked="" type="checkbox"/> Attached, Document ID: <u>BA-EU8-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Acid Rain Permit Application (Hard Copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**ATTACHMENT BA-EU8-D**  
**EMISSION UNIT REGULATIONS**

**ATTACHMENT BA-EU8-D**

**EMISSION UNIT REGULATIONS**

**Applicable Requirements Listing - Power Plants**

**EMISSION UNIT: EU8: Three 820 kW Diesel Generators- FPC Bartow Plant**

**FDEP Rules:**

**Stationary Sources-General:**

- 62-210.700(1)
- 62-210.700(4) - Maintenance
- 62-210.700(6)

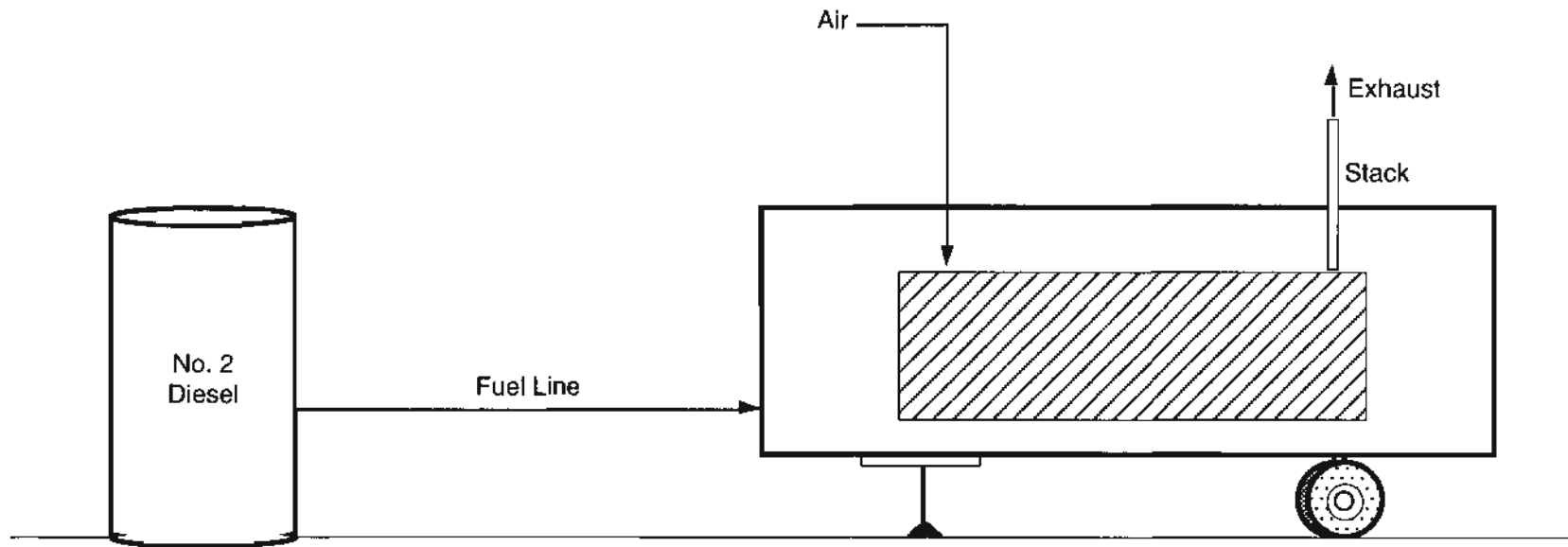
**Stationary Sources-Emission Standards/RACT:**

62-296.320(4)(b)(State Only)- General VE

**Stationary Sources-Emission Monitoring:**

- 62-297.310(2)(b) - Operating Rate
- 62-297.310(4)(a)2. - Applicable Test Procedures;Sampling time
- 62-297.310(5) - Determination of Process Variables
- 62-297.310(7)(a)3. - Permit Renewal Test Required
- 62-297.310(7)(a)4.a. - Annual Test
- 62-297.310(7)(a)9. - FDEP Notification - 15 days
- 62-297.310(8) - Test Reports

**ATTACHMENT BA-EU8-L1**  
**PROCESS FLOW DIAGRAM**



Caterpillar Model 3508-DITA, 820 kW, 1220 hp at 1,800 rpm

Attachment BA-EU8-L1  
Flow Diagram of Diesel Engine/Generator Set



**ATTACHMENT BA-EU8-L2**  
**FUEL ANALYSIS OR SPECIFICATION**



ATTACHMENT BA-EU8-L2

FUEL ANALYSIS

No. 2 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	30 <sup>1</sup>	-
Relative density	7.1 lb/gal <sup>2</sup>	
Heat content	19,500 Btu / lb (HHV)	
% sulfur	0.04 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.1 <sup>1</sup>

Note: The values listed are "typical" values based upon 1) information gathered by laboratory analysis, and 2) FPC's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

<sup>1</sup> Data taken from the FPC fuel procurement specification

<sup>2</sup> Data from laboratory analysis

<sup>3</sup> Data from current air permit.

**ATTACHMENT BA-EU8-L12**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

### **ADDITIONAL APPLICABLE REQUIREMENTS**

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g., emission limitations).



# Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347  
Lawton Chiles, Governor 813-620-6100 Carol M. Browner, Secretary

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: A009-205952  
Counties: Citrus, Pasco,  
Pinellas, Polk, Sumter  
Expiration Date: 03/31/97  
Project: Three 820 Kilowatt  
Diesel Generators

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

For the operation of three Caterpillar Model 3508-DITA 820 kilowatt diesel generators. The maximum heat input rate to each diesel generator is 8.58 million Btu per hour (62.1 gallons of diesel fuel per hour). The diesel generators burn new/virgin No. 2 diesel fuel oil with a maximum sulfur content of 0.5% by weight. The diesel generators may be located at any Florida Power Corporation facility listed below.

- Locations:
- (1) The Crystal River Plant, Powerline Road, Red Level, Citrus County.
  - (2) The Anclote Plant, Anclote Road, west of Alternate 19, Tarpon Springs, Pasco County.
  - (3) The Bartow Plant, Weedon Island, St. Petersburg, Pinellas County.
  - (4) The Higgins Plant, Shore Drive, Oldsmar, Pinellas County.
  - (5) The Bayboro Plant, 13th Ave. & 2nd St. South, St. Petersburg, Pinellas County.
  - (6) The Wildwood Reclamation Facility, State Road 462, 1 mile east of U.S. 301, Wildwood, Sumter County.
  - (7) The future FPC Polk County Site, County Road 555, 1 mile southwest of Homeland, Polk County.

UTM: 17-334.4 E 3204.2 N NEDS NO: 0004 Point ID: 12  
(Original Citrus County Location)

Replaces Permit No.: AC09-202080

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: A009-205952  
Expiration Date: 03/31/97  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from each diesel generator shall not be equal to or greater than 20% opacity.  
[Rule 17-2.610(2)(a), F.A.C.].
3. Florida Power Corporation shall not discharge air pollutants which cause or contribute to an objectionable odor.  
[Rule 17-2.620(2), F.A.C.].
4. The hours of operation expressed as "engine-hours" shall not exceed 2,970 in any consecutive 12 month period. The hours of operation expressed as "engine-hours" shall be the summation of the individual hours of operation of each diesel generator.  
[Permit AC09-202080].
5. Florida Power Corporation is permitted to burn only new/virgin No. 2 diesel fuel oil with a maximum sulfur content of 0.5% by weight in the diesel generators. [Permit AC09-202080].
6. The heat input rate to each diesel generator shall not exceed 8.58 million Btu per hour (62.1 gallons per hour).  
[Permit AC09-202080].
7. Florida Power Corporation shall notify the Department, in writing, at least 15 days prior to the date on which any diesel generator is to be relocated. The notification shall specify,
  - (A) which diesel generator, by serial number, is being relocated,
  - (B) which location the diesel generator is being relocated from,
  - (C) which location the diesel generator is being relocated to, and
  - (D) the approximate startup date at the new location.

If a diesel generator is to be relocated within Pinellas County, then Florida Power Corporation shall provide the same notification to the Air Quality Division of the Pinellas County Department of Environmental Management.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: A009-205952  
Expiration Date: 03/31/97  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

8. Test each diesel generator for the following pollutants on an annual basis within 30 days of the date October 25. The test reports shall be submitted to the Air Section of the Southwest District Office of the Department within 45 days of testing. A copy of the test reports shall be submitted to the Air Quality Division of the Pinellas County Department of Environmental Management for each diesel generator located in Pinellas County. [Rules 17-2.700(2)(a)1. and 17-2.700(7), F.A.C.].

- (X) Opacity
- (X) Fuel Sulfur Analysis

9. After each relocation, test each relocated diesel generator for the following pollutants within 30 days of startup. The test reports shall be submitted to the Air Section of the Southwest District Office of the Department within 45 days of testing. A copy of the test reports shall be submitted to the Air Quality Division of the Pinellas County Department of Environmental Management for each diesel generator located in Pinellas County. [Rules 17-4.070(3), 17-2.700(2)(a)1. and 17-2.700(7), F.A.C.].

- (X) Opacity
- (X) Fuel Sulfur Analysis

10. Compliance with the emission limitation of specific condition #2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A, and adopted by reference in Rule 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60.

11. Testing of each diesel generator emissions must be accomplished while operating the diesel generator within  $\pm 10\%$  of the maximum fuel firing rate of 62.1 gallons per hour. Failure to submit the actual operating rate may invalidate the test. [Rule 17-4.070(3), F.A.C.].

12. Florida Power Corporation shall notify the Department at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. For each diesel generator located in Pinellas County, Florida Power Corporation shall provide the same notification to the Air Quality Division of the Pinellas County Department of Environmental Management. [Rule 17-2.700(2)(a)9., F.A.C.].

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: A009-205952  
Expiration Date: 03/31/97  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

13. Compliance with specific condition #4 shall be documented by record keeping. At a minimum, the records shall indicate the daily hours of operation for each individual diesel generator, the daily hours of operation expressed as "engine-hours", and a cumulative total hours of operation expressed as "engine-hours" for each month. The records shall be maintained for a minimum of 2 years and made available to the Department or the Pinellas County Department of Environmental Management upon request. [Rule 17-4.070(3), F.A.C.].

14. In order to document continuing compliance with specific condition #5, records of the sulfur content, in percent by weight, of all the fuel burned shall be kept based on either vendor provided as-shipped analyses or on analyses of as-received samples. The records shall be maintained for a minimum of 2 years and shall be made available to the Department or the Pinellas County Department of Environmental Management upon request. [Rule 17-4.070(3), F.A.C.].

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

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

17. Construction permit number AC09-202080 might have been subject to the new source review (NSR) requirements of Rule 17-2.500, F.A.C. if any of the federally enforceable limits in the permit had been relaxed. If Florida Power Corporation requests relaxation of any of the federally enforceable limits, then the Department will determine whether the NSR requirements of Rule 17-2.500, F.A.C. shall apply as though construction had not yet commenced. [Rule 17-2.500(2)(g), F.A.C.].

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: A009-205952  
Expiration Date: 03/31/97  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

18. Florida Power Corporation shall submit, for these diesel generators, on or before March 1, an emission report for the preceding calendar year containing the following information pursuant to Section 403.061(13), Florida Statutes.

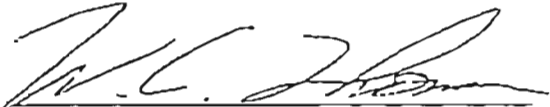
- (A) The location of each diesel generator, by serial number, at the end of the preceding calendar year.
- (B) The annual amount of fuel burned in each diesel generator, by serial number.
- (C) The annual hours of operation of each diesel generator, by serial number.
- (D) The annual hours of operation expressed in "engine-hours", as defined in specific condition 4.
- (E) A copy of the fuel sulfur content records required by specific condition 14 for the preceding calendar year.
- (F) Annual emissions of particulate,  $PM_{10}$ , carbon monoxide,  $SO_2$ , and  $NOx$  based upon actual diesel generator operation and fuel use (provide a copy of the calculation sheets and the basis for the calculations).
- (G) Any changes in the information contained in the permit application.

If any diesel generator operated within Pinellas County at any time during the preceding calendar year, then Florida Power Corporation shall provide a copy of the emission report to the Air Quality Division of the Pinellas County Department of Environmental Management.

19. Three applications to renew this operation permit shall be submitted to the Department of Environmental Regulation, and one copy shall be submitted to the Air Quality Division of the Pinellas County Department of Environmental Management, by January 30, 1997.

[Rules 17-4.090 and 17-4.050(2), F.A.C. and Pinellas County Ordinance 89-70 as amended by 90-63, Subpart 2.210].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dr. Richard D. Garrity  
Director of District Management





# Florida Department of Environmental Regulation

Southwest District • 4520 Oak Fair Boulevard • Tampa, Florida 33610-7347  
Lawton Chiles, Governor • 813-623-5561 • Carol M. Browner, Secretary

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL. 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
County: Citrus  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

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

For construction (installation) of three Caterpillar Model 3508-DITA 820 kilowatt diesel generators. The maximum heat input rate to each diesel generator will be 8.58 million Btu per hour (62.1 gallons of diesel fuel per hour). The diesel generators will burn new/virgin No. 2 diesel fuel oil with a maximum sulfur content of 0.5% by weight.

Location: Florida Power Corporation's Crystal River Facility.  
Powerline Road. Red Level, Florida.

UTM: 17-334.4 E 3204.2 N NEDS NO: 0004 Point ID: 12

Replaces Permit No.: Not Applicable, New Construction.

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL. 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
County: Citrus  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from each diesel generator shall not be equal to or greater than 20% opacity.  
[Rule 17-2.610(2)(a), F.A.C.].
3. Florida Power Corporation shall not discharge air pollutants which cause or contribute to an objectionable odor.  
[Rule 17-2.620(2), F.A.C.].
4. In order to exempt this construction permit from the new source review requirements of Rule 17-2.500, F.A.C., the hours of operation expressed as "engine-hours" shall not exceed 2,970 in any consecutive 12 month period. The hours of operation expressed as "engine-hours" shall be the summation of the individual hours of operation of each diesel generator.  
[Requested in the permit application].
5. Florida Power Corporation is permitted to burn only new/virgin No. 2 diesel fuel oil with a maximum sulfur content of 0.5% by weight in the diesel generators.  
[Requested in the permit application].
6. The heat input rate to each diesel generator shall not exceed 8.58 million Btu per hour (62.1 gallons per hour).  
[Requested in the permit application].
7. Test each diesel generator for the following pollutants within 30 days of startup. The test reports shall be submitted to the Air Section of the Southwest District Office of the Department within 45 days of testing in conjunction with a Certificate of Completion of Construction, DER Form 17-1.202(3).  
[Rules 17-2.700(2)(a)1. and 17-2.700(7), F.A.C.].

- (X) Opacity
- (X) Fuel Sulfur Analysis

8. Compliance with the emission limitation of specific condition #2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A, and adopted by reference in Rule 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60.

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL. 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
County: Citrus  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

9. Testing of each diesel generator emissions must be accomplished while operating the diesel generator within  $\pm 10\%$  of the maximum fuel firing rate of 62.1 gallons per hour. Failure to submit the actual operating rate may invalidate the test. [Rule 17-4.070(3), F.A.C.].

10. Florida Power Corporation shall notify the Department at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. [Rule 17-2.700(2)(a)9., F.A.C.].

11. Compliance with specific condition #4 shall be documented by record keeping. At a minimum, the records shall indicate the daily hours of operation for each individual diesel generator, the daily hours of operation expressed as "engine-hours", and a cumulative total hours of operation expressed as "engine-hours" for each month. The records shall be maintained for a minimum of 2 years and made available to the Department upon request. [Rule 17-4.070(3), F.A.C.].

12. In order to document continuing compliance with specific condition #5, records of the sulfur content, in percent by weight, of all the fuel burned shall be kept based on either vendor provided as-shipped analyses or on analyses of as-received samples. The records shall be maintained for a minimum of 2 years and shall be made available to the Department upon request. [Rule 17-4.070(3), F.A.C.].

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

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

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL. 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
County: Citrus  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

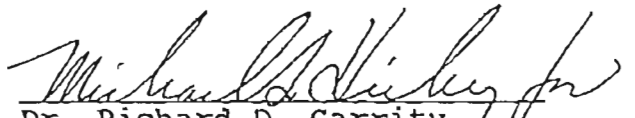
SPECIFIC CONDITIONS:

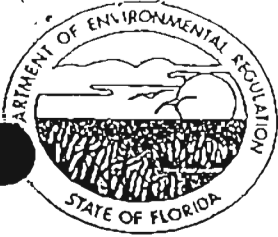
15. This construction permit may have been subject to the new source review (NSR) requirements of Rule 17-2.500, F.A.C. if any of the federally enforceable limits in this permit had been relaxed. If Florida Power Corporation requests relaxation of any of the federally enforceable limits in this permit, then the Department will determine whether the NSR requirements of Rule 17-2.500, F.A.C. shall apply as though construction had not yet commenced. [Rule 17-2.500(2)(g), F.A.C.].

16. Florida Power Corporation shall submit
- (A) four applications for an operating permit (Certificate of Completion of Construction),
  - (B) the appropriate application fee,
  - (C) the test reports required by specific condition #7, and
  - (D) an up-to-date copy of the records required by specific conditions #11 and #12,

to the Southwest District Office of the Department of Environmental Regulation within 45 days of compliance testing, or by May 1, 1992, whichever date is earliest.  
[Rule 17-4.090, F.A.C.].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
Dr. Richard D. Garrity  
Director of District Management  
4520 Oak Fair Boulevard  
Tampa, Florida 33610-7347  
Phone (813) 623-5561



# Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

PERMITTEE:  
Florida Power Corporation  
P.O. Box 14042  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
Counties: Citrus, Pasco  
Pinellas, Polk, Sumter  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

RECEIVED

APR 28 1992

Environmental Svcs  
Department

Issued: 10/07/91  
Amended: 04/27/92

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

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- Locations:
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  - (3) The Bartow Plant, Weedon Island, St. Petersburg, Pinellas County.
  - (4) The Higgins Plant, Shore Drive, Oldsmar, Pinellas County.
  - (5) The Bayboro Plant, 13th Ave. & 2nd St. South, St. Petersburg, Pinellas County.
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  - (7) The future FPC Polk County Site, County Road 555, 1 mile southwest of Homeland, Polk County.

UTM: 17-334.4 E 3204.2 N NEDS NO: 0004 Point ID: 12  
(Original Citrus County Location)

Replaces Permit No.: Not Applicable, New Construction.

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

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[Rule 17-2.620(2), F.A.C.].
4. In order to exempt this construction permit from the new source review requirements of Rule 17-2.500, F.A.C., the hours of operation expressed as "engine-hours" shall not exceed 2,970 in any consecutive 12 month period. The hours of operation expressed as "engine-hours" shall be the summation of the individual hours of operation of each diesel generator.  
[Requested in the permit application].
5. Florida Power Corporation is permitted to burn only new/virgin No. 2 diesel fuel oil with a maximum sulfur content of 0.5% by weight in the diesel generators.  
[Requested in the permit application].
6. The heat input rate to each diesel generator shall not exceed 8.58 million Btu per hour (62.1 gallons per hour).  
[Requested in the permit application].
7. Florida Power Corporation shall notify the Department, in writing, at least 15 days prior to the date on which any diesel generator is to be relocated. The notification shall specify,
  - (A) which diesel generator, by serial number, is being relocated,
  - (B) which location the diesel generator is being relocated from,
  - (C) which location the diesel generator is being relocated to, and
  - (D) the approximate startup date at the new location.

If a diesel generator is to be relocated within Pinellas County, then Florida Power Corporation shall provide the same notification to the Air Quality Division of the Pinellas County Department of Environmental Management.  
[Rule 17-4.070(3), F.A.C.].

PERMITTEE:  
Florida Power Corporation  
St. Petersburg, FL 33733

PERMIT/CERTIFICATION  
Permit No: AC09-202080  
Expiration Date: 06/30/92  
Project: Three 820 Kilowatt  
Diesel Generators

SPECIFIC CONDITIONS:

8. Test each diesel generator for the following pollutants within 30 days of initial startup. The test reports shall be submitted to the Air Section of the Southwest District Office of the Department within 45 days of testing in conjunction with a Certificate of Completion of Construction, DER Form 17-1.202(3). [Rules 17-2.700(2)(a)1. and 17-2.700(7), F.A.C.].

- (X) Opacity
- (X) Fuel Sulfur Analysis

9. After each relocation, test each relocated diesel generator for the following pollutants within 30 days of startup. The test reports shall be submitted to the Air Section of the Southwest District Office of the Department within 45 days of testing. A copy of the test reports shall be submitted to the Air Quality Division of the Pinellas County Department of Environmental Management for each diesel generator located in Pinellas County. [Rules 17-4.070(3), 17-2.700(2)(a)1. and 17-2.700(7), F.A.C.].

- (X) Opacity
- (X) Fuel Sulfur Analysis

10. Compliance with the emission limitation of specific condition #2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A, and adopted by reference in Rule 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Rule 17-2.700, F.A.C. and 40 CFR 60.

11. Testing of each diesel generator emissions must be accomplished while operating the diesel generator within  $\pm 10\%$  of the maximum fuel firing rate of 62.1 gallons per hour. Failure to submit the actual operating rate may invalidate the test. [Rule 17-4.070(3), F.A.C.].

12. Florida Power Corporation shall notify the Department at least 15 days prior to the date on which each formal compliance test is to begin of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted. For each diesel generator located in Pinellas County, Florida Power Corporation shall provide the same notification to the Air Quality Division of the Pinellas County Department of Environmental Management. [Rule 17-2.700(2)(a)9., F.A.C.].

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SPECIFIC CONDITIONS:

13. Compliance with specific condition #4 shall be documented by record keeping. At a minimum, the records shall indicate the daily hours of operation for each individual diesel generator, the daily hours of operation expressed as "engine-hours", and a cumulative total hours of operation expressed as "engine-hours" for each month. The records shall be maintained for a minimum of 2 years and made available to the Department or the Pinellas County Department of Environmental Management upon request. [Rule 17-4.070(3), F.A.C.]
14. In order to document continuing compliance with specific condition #5, records of the sulfur content, in percent by weight, of all the fuel burned shall be kept based on either vendor provided as-shipped analyses or on analyses of as-received samples. The records shall be maintained for a minimum of 2 years and shall be made available to the Department or the Pinellas County Department of Environmental Management upon request. [Rule 17-4.070(3), F.A.C.]
15. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Rule 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alterations, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.
16. Issuance of this permit does not relieve Florida Power Corporation from complying with applicable emission limiting standards or other requirements of Chapter 17-2, or any other requirements under federal, state, or local law. [Rule 17-2.210, F.A.C.]
17. This construction permit might have been subject to the new source review (NSR) requirements of Rule 17-2.500, F.A.C. if any of the federally enforceable limits in this permit had been relaxed. If Florida Power Corporation requests relaxation of any of the federally enforceable limits in this permit, then the Department will determine whether the NSR requirements of Rule 17-2.500, F.A.C. shall apply as though construction had not yet commenced. [Rule 17-2.500(2)(g), F.A.C.]



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Diesel Generators

SPECIFIC CONDITIONS:

18. Florida Power Corporation shall submit
- (A) four applications for an operating permit (Certificate of Completion of Construction),
  - (B) the appropriate application fee,
  - (C) the test reports required by specific condition #7, and
  - (D) an up-to-date copy of the records required by specific conditions #11 and #12,

to the Southwest District Office of the Department of Environmental Regulation within 45 days of compliance testing, or by May 1, 1992, whichever date is earliest.  
[Rule 17-4.090, F.A.C.].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*For*   
Dr. Richard D. Garrity  
Director of District Management