

FLORIDA POWER CORPORATION  
HIGGINS FACILITY

*Submitted to:*

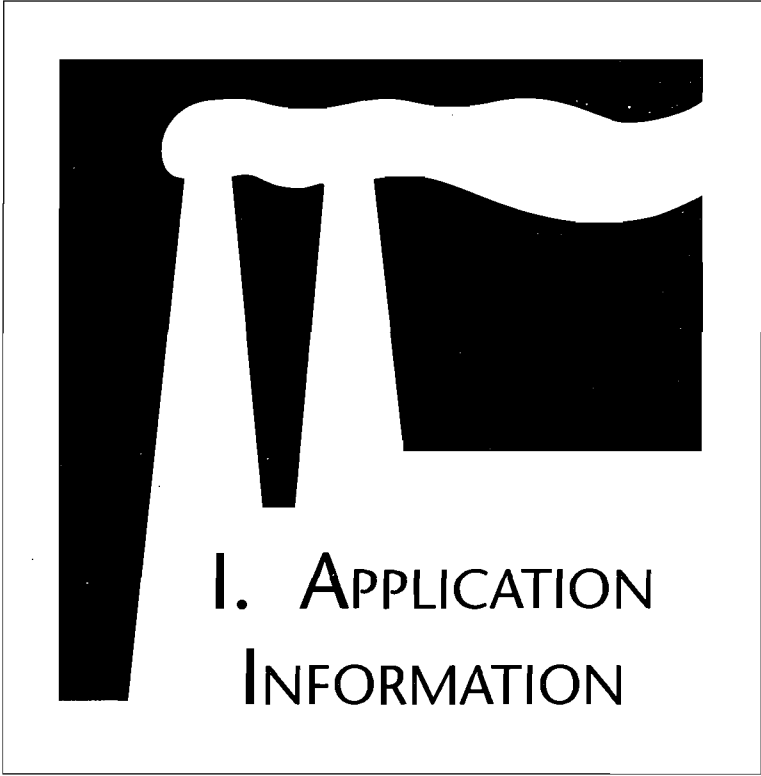
**Florida Department of  
Environmental Protection**

*Prepared by:*



KBN Engineering and Applied Sciences, Inc.  
Gainesville, Florida

TITLE V  
AIR OPERATING  
PERMIT APPLICATION



# 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>Higgins Plant</b>	
3. Facility Identification Number: <b>1030012</b> [ ] Unknown	
4. Facility Location Information: Street Address or Other Locator: <b>Shore Drive</b> City: <b>Oldsmar</b> County: <b>Pinellas</b> Zip Code: <b>34677</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:	6/13/96
2. Permit Number:	1030012-001-AV
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:

**W. Jeffrey Pardue, Director Environmental Services Dpt**

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

Organization/Firm: **Florida Power Corporation**

Street Address: **3201 34th Street South**

City: **St. Petersburg**

State: **FL**

Zip Code: **33711**

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

Telephone: **(813) 866-5151**

Fax: **(813) 866-4926**

4. Owner/Authorized Representative or Responsible Official Statement:

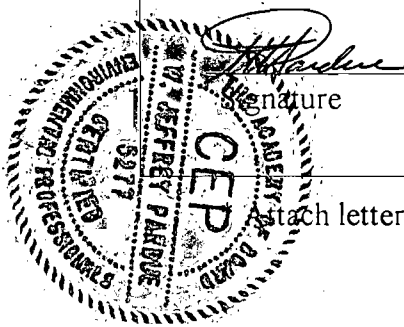
*I, the undersigned, am the owner or authorized representative\* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based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

Signature

Date

6-13-96

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.

**Emissions Unit ID**                      **Description of Emissions Unit**                      **Permit Type**

Unit #	Unit ID	
1R	004	Peaking Gas Turbine Unit 1
2R	005	Peaking Gas Turbine Unit 2
3R	006	Peaking Gas Turbine Unit 3
4R	007	Peaking Gas Turbine Unit 4
5R	001	Fossil Fired Steam Boiler No. 1
6R	002	Fossil Fired Steam Boiler No. 2
7R	003	Fossil Fired Steam Boiler No. 3
8		Facility-Wide Fugitive Emissions

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 [ X ] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those 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.*

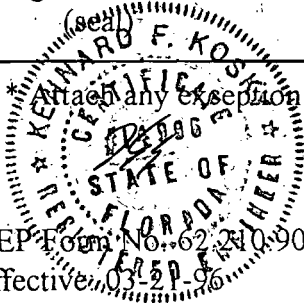
*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ] if so), I further certify that, with the exception of any changes detailed as part of this application, each such 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.*

*Edward F. Kosky*

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 TVAL-1**

ATTACHMENT TVA-1

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

Emission Units	
<b>Gas Turbines</b>	EU1, EU2, EU3, EU4
General	4 peaking units
Emission Points	1 stack per turbine
Segments	No. 2 fuel oil, Natural gas
Pollutants	Maximum fuel oil sulfur content
VE Emissions	VE limits applicable
CEM	none
PSD	Existing Baseline Sources
<b>Steam Units</b>	EU5, EU6, EU7
General	*3 fossil fired steam boilers
Emission Points	1 stack per unit
Segments**	No. 6 fuel oil, Natural gas, and No. 2 fuel oil (pilot
Pollutants	SO <sub>2</sub> , PM
VE Emissions	VE limits applicable
CEM	none
PSD	Existing Baseline Sources
<b>Facility-wide Fugitive</b>	EU8
General	Facility-wide
Emission Points	Fugitive
Segments	see description
Pollutants	NA
VE Emissions	NA
CEM	NA
PSD	Existing Baseline Sources

\*These units are in long-term reserve shutdown status.

\*\* 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>336.5</b> North (km): <b>3098.4</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>28 / 0 / 2</b> Longitude: (DD/MM/SS): <b>82 / 39 / 46</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): <b>The Higgins Facility consists of 3 fossil fuel steam generators, (in long-term reserve shutdown per Rule 62-210.300(2)(a)3.d) and 4 gas turbine peaking units.</b>			

#### Facility Contact

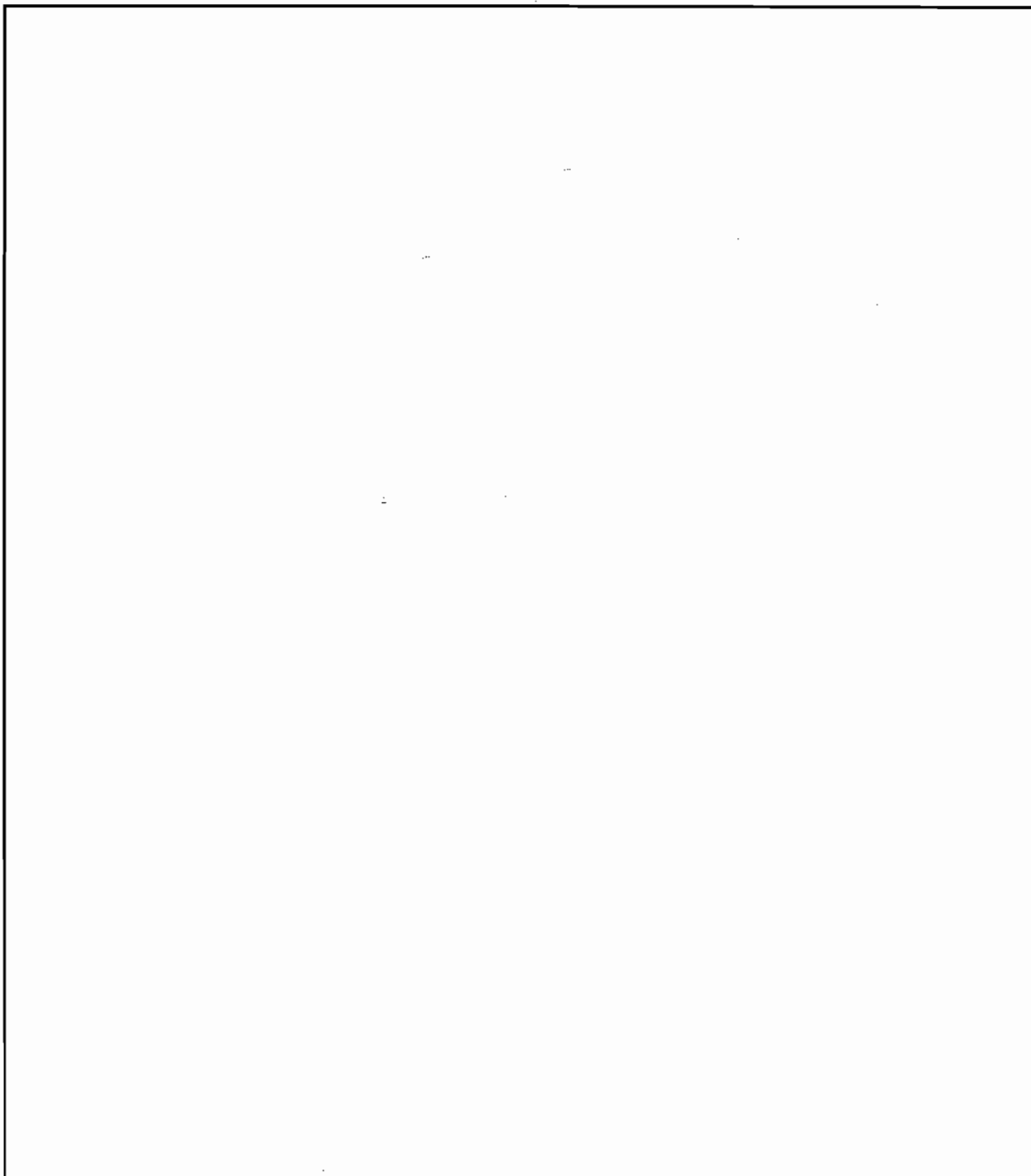
1. Name and Title of Facility Contact: <b>M. W. Lentz, Plant Manager</b>			
2. Facility Contact Mailing Address: Organization/Firm: <b>Florida Power Corporation</b> Street Address: <b>Shore Drive</b> City: <b>Oldsmar</b>		<i>998 East Shore Dr.</i> State: <b>FL</b> Zip Code: <b>34677</b>	
3. Facility Contact Telephone Numbers: Telephone: <b>(813) <del>866-2239</del></b> Fax: <b>(813) 866-2239</b>			

**Facility Regulatory Classifications**

1. Small Business Stationary Source? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
2. Title V Source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3. Synthetic Non-Title V Source? <input type="checkbox"/> Yes, <input checked="" type="checkbox"/> No
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Synthetic Minor Source of Pollutants Other than HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Major Source of Hazardous Air Pollutants (HAPs)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7. Synthetic Minor Source of HAPs? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
8. One or More Emissions Units Subject to NSPS? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. One or More Emissions Units Subject to NESHAP? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10. Title V Source by EPA Designation? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 HG-FE-B**



## C. FACILITY POLLUTANTS

### Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
SO <sub>2</sub> Sulfur Dioxide	A
PM Particulate Matter - Total	A
PM <sub>10</sub> Particulate Matter - PM <sub>10</sub>	A
NO <sub>x</sub> 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

727/826.43<sup>24</sup>

11-1-00 28:40  
 spoke @ Mike Kennedy -  
 to ✓ the discrepancy between  
 page 10, #6, and this page  
 for HAPS - A vs B  
 Ben

## 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>HG-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>HG-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>HG-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>HG-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>HG-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 type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" 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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-FE-11</u></p> <p><input type="checkbox"/> Not Applicable</p>
<p>12. Compliance Assurance Monitoring Plan:</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>HG-FE-12</u></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: <u>HG-FE-14</u></p> <p><input type="checkbox"/> Not Applicable</p>
<p>15. Compliance Statement (Hard-copy Required)</p> <p><input checked="" type="checkbox"/> Attached, Document ID: <u>HG-FE-15</u></p> <p><input type="checkbox"/> Not Applicable</p>

**ATTACHMENT HG-FE-B**  
**FACILITY REGULATIONS**

**ATTACHMENT HG-FE-B  
FACILITY REGULATIONS**

Master Applicable Requirements Listing - Power Plants

FACILITY: FPC Higgins 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> or less surface area
- 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, limited to 32,000 gal/yr
- 62-210.300(3)(a)21. - general purpose engines, limited to 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/day or less, averaged month.
- 62-210.300(3)(a)24. - surface coating < 5% or less VOC
- 62-210.300(3)(b) - Temporary Exemption
- 62-210.370(3) - AORs
- 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 Forum

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:

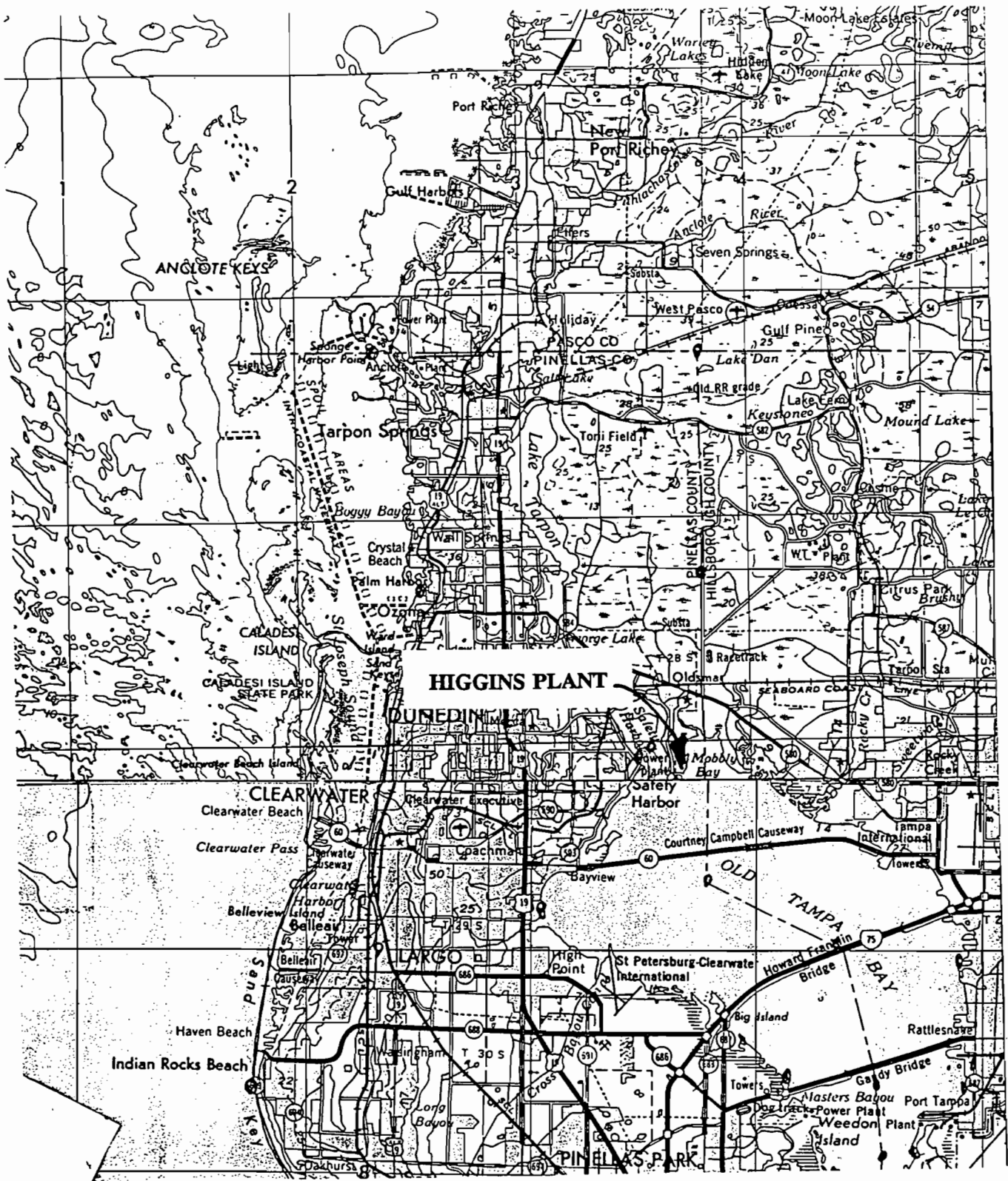
Asbestos Removal:

- 40 CFR 61.05 - Prohibited Activities
- 40 CFR 61.12(b) - Compliance with work practice standard
- 40 CFR 61.19 - Circumvention
- 40 CFR 61.145 - Demolition and Renovation
- 40 CFR 61.148 - Standard for Insulating Material

**ATTACHMENT HG-FE-1**

**AREA MAP**



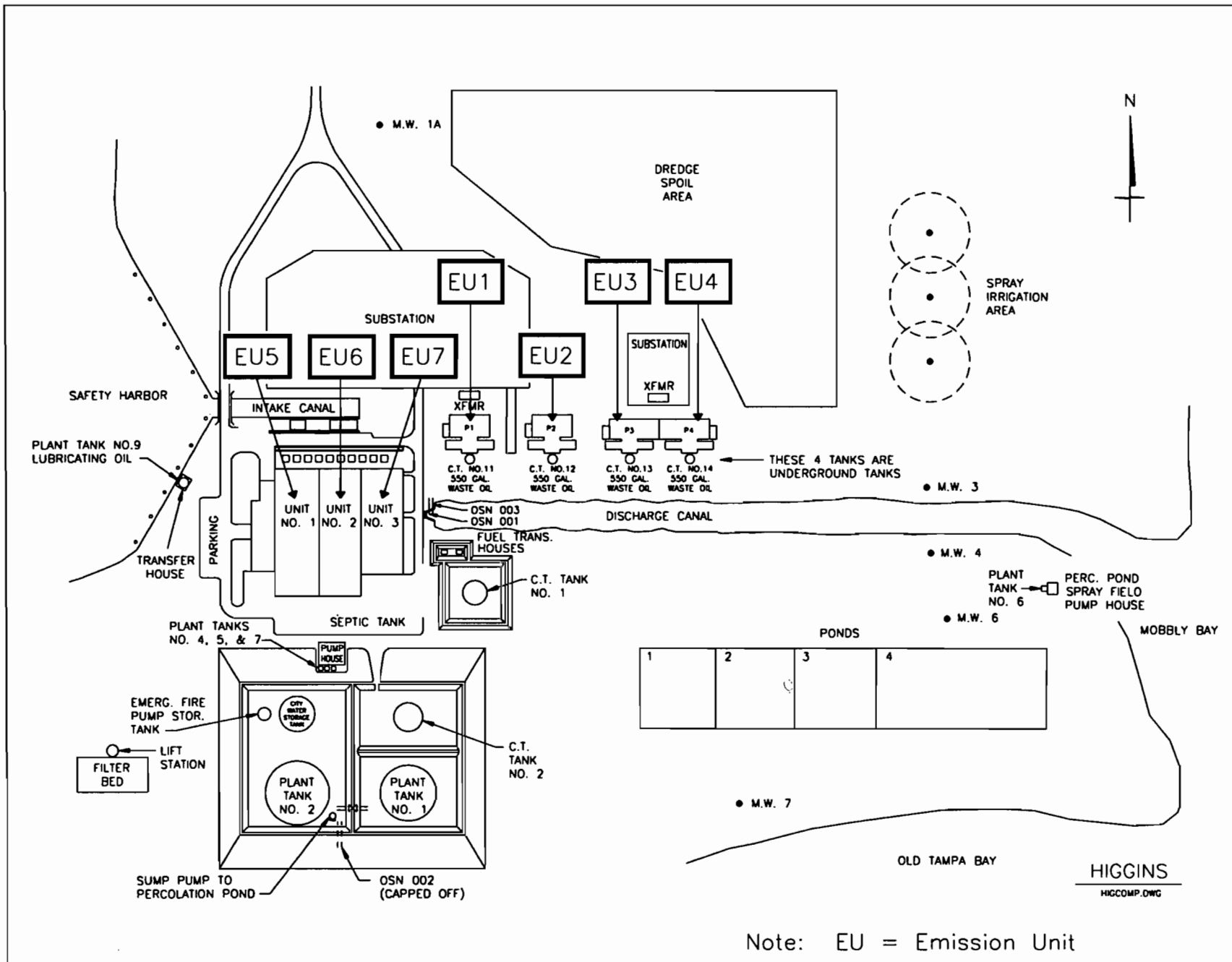


Attachment HG-FE-1  
 Area Map  
 Florida Power Corporation, Higgins Plant



**ATTACHMENT HG-FE-2**

**FACILITY PLOT PLAN**



Note: EU = Emission Unit

### FPC Higgins Facility Plot Plan

FPC Power Corporation  
Higgins Facility

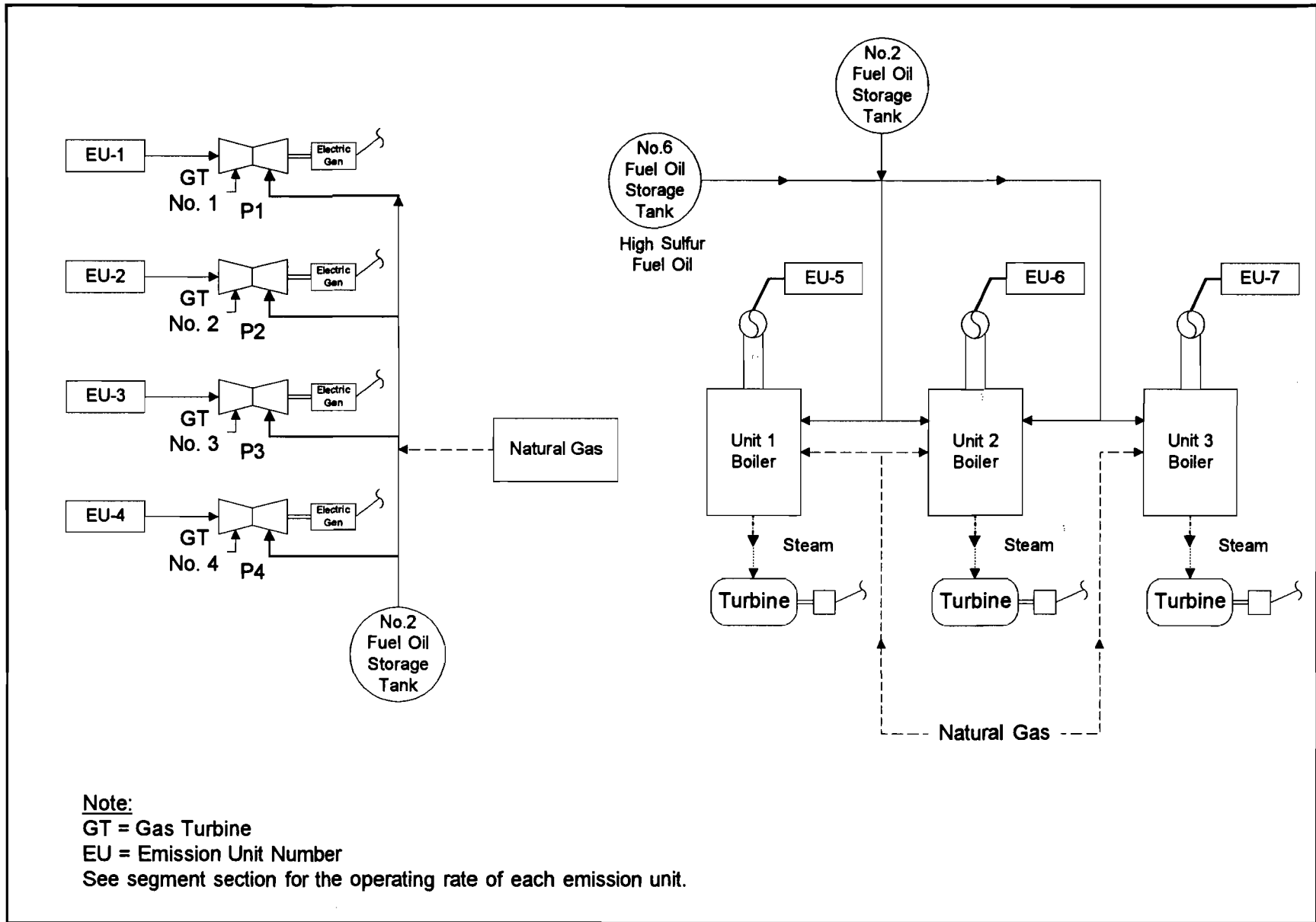
Emission Unit Identification

Filename: HIGCOMP2.DWG  
Latest Revision: 1/2/96

**KBN**  
Engineering and Applied Sciences, Inc.

HIGGINS  
HIGCOMP.DWG

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



<b>Process Flow Legend</b> 	Florida Power Corporation, Higgins Plant Process Flow Diagram	Emission Unit: Overall Plant Process Area: Overall Plant Filename: FPCHG.VSD Latest Revision Date: 6/1/96 11:55 AM	

**ATTACHMENT HG-FE-4**

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

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



## ATTACHMENT HG-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. 8. This emission unit contains information on fugitive emissions that occur on a facility-wide basis. A summary of potential fugitive emission sources at the facility is presented in the following sections.

### **Criteria and Precursor Air Pollutants**

FPC has not identified fugitive emissions 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 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.

### **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
- 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.

**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:

- acetylene
- methane (natural gas)

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

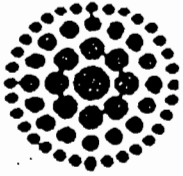
**Methane** - Is a primary component of natural gas. The facility has a natural gas pipeline which delivers fuel to the generating units. This fuel delivery system is normally airtight, but does have safety valves which occasionally relieve (open) when an overpressure condition develops in the gas line.

**ATTACHMENT HG-FE-11**

**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

**ATTACHMENT HG-FE-11**  
**IDENTIFICATION OF ADDITIONAL APPLICABLE REQUIREMENTS**

The steam boiler units 1, 2, 3 currently are not in operation and have been placed in long-term reserve shutdown under Rule 62-210.300(2)(a)3.d



**Florida  
Power**  
CORPORATION

bcc: D. T. Buell  
G. E. Marks

Route: Hedrick/Osbourn/Morneault/Kennedy (last)

File: HIGA.1.1

January 13, 1994

Mr. J. Harry Kerns, P.E.  
District Air Engineer  
Southwest District  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, FL 33619

Dear Mr. Kerns:

Re: Higgins Steam Units 1, 2, 3 Long-term Reserve Shutdown  
(Permit Nos. A052-216382, -216383, -216384)

Florida Power Corporation is providing the Department of Environmental Protection notification that the units referenced above will be placed in long-term reserve shutdown on January 24, 1994.

To the best of my knowledge, these units are currently operating in compliance with all applicable air pollution rules and air operation permit conditions.

Please contact Mr. Mike Kennedy at (813) 866-4344 if you have any questions.

Sincerely,

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

cc: Mr. Gary Robbins, Pinellas County

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

**ATTACHMENT HG-FE-12**

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

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



## COMPLIANCE REPORT AND PLAN

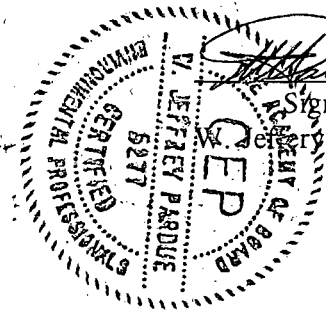
The facility and emissions units identified in this application are in compliance with the Applicable Requirements identified in Sections B and D of the application form and attachments referenced in Section E. 11. and L. 12. (if included). Compliance is certified as of the date this application and 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 HG-FE-15**  
**COMPLIANCE STATEMENT**

ATTACHMENT HG-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.



*Jeffrey Pardue*

\_\_\_\_\_  
Signature, Responsible Official  
Jeffrey Pardue, C.E.P., Director, Environmental Engineering Dept.

6-13-96  
Date

**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 Unit 1</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown <b>004</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):
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>15 Mar 1969</b>	
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer:	<b>Pratt &amp; Whitney</b>	Model Number:
4. Generator Nameplate Rating:	<b>37 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>566</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>1. Maximum heat input based on permit limit firing No. 2 fuel oil. Max. heat input function of ambient temperature(per permit condition).</b></p>		

**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 HG-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: <b>EU1</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>Gas turbine gases exhaust through a single stack per turbine 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>55</b> feet
7. Exit Diameter:	<b>15.1</b> feet
8. Exit Temperature:	<b>850</b> °F

9. Actual Volumetric Flow Rate:	<b>1,000,000</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>336.5</b>	North (km): <b>3098.4</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 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Internal Combustion Electric Generation Dist. Oil/Diesel Turbine</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>4.101</b>	5. Maximum Annual Rate:  <b>35,929</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-HHV</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>Internal Combustion Electric Generation Natural Gas Turbine</b>	
2. Source Classification Code (SCC): <b>2-01-002-01</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.57</b>	5. Maximum Annual Rate: <b>4,958</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,000</b>	
10. Segment Comment (limit to 200 characters): <b>Hourly fuel rate - permit limit.</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
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>287.1 lb/hour                      1,258 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>AO 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 HG-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limit based on AP-42 emission factor.</b>	

Emissions Unit Information Section 1 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>287.1</b> lb/hour	<b>1,258</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>AO 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>EPA Method 9, annual compliance test.</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. 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>HG-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>HG-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 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 type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>12 Jan 1992</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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>HG-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>HG-EU1-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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 HG-EU1-D**  
**EMISSIONS UNIT REGULATIONS**

**ATTACHMENT HG-EU1-D  
EMISSION UNIT REGULATIONS**

Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU1: Peaking Units Gas Turbine 1- FPC Higgins 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
- 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) - Operating Rate; reserved for CTs
- 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)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 position of the applicant that the use of very low sulfur oil and natural gas meets the requirements of this rule.



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

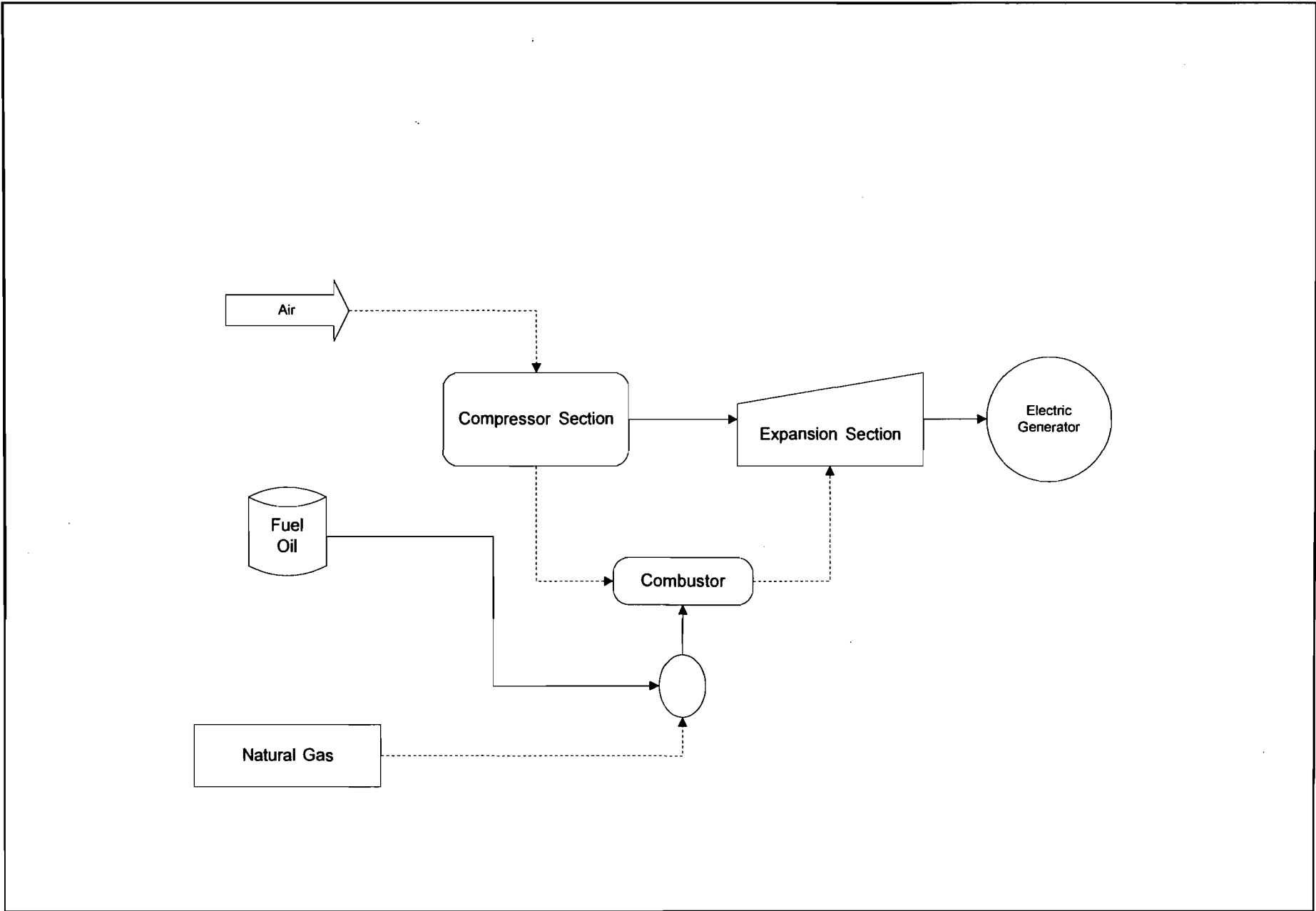
Table 1. Maximum Estimated Emissions for Emissions Limited Pollutants, Gas Turbine Peaking Units (Fuel Oil), Higgins Plant


Pollutant/Units	Gas Turbine	
	P-1, P-2	P-3, P-4
Hours of Operation	8,760	8,760
Annual Capacity Factor (%)	100	100
Sulfur-Dioxide (lb/hr) = Emission factor (lb/1,000 gal.) x sulfur content (%) x Fuel usage (gal/hr)		
Basis (1)	AO Permit/AP-42	AO Permit/AP-42
Emission factor (lb/1,000 gal. x sulfur content)	140 x s	140 x s
Sulfur content (%)	0.50	0.50
Fuel usage (1,000 gal/hr)	4.101	4.572
Emission rate (lb/hr)	287.1	320
(TPY)	1257.4	1401.8

Source: FDEP Permit AO52-216420, 216421, 216422, and 216423.

**ATTACHMENT HG-EU1-L1**

**PROCESS FLOW DIAGRAM**



<b>Process Flow Legend</b> - - - - -> Gas Flow ———> Solid / Liquid Flow	Florida Power Corporation, Higgins Plant Process Flow Diagram	Emission Unit: Peaking Gas Turbine No. 1, 2, 3, 4 Process Area: Overall Plant Filename: FPCHG.VSD Latest Revision Date: 11/13/95 02:20 PM	 <b>KBN</b> Engineering and Applied Sciences, Inc.
---	---	--	---

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

Attachment HG-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	0.12 <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 HG-EUI-I2

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 HG-EU1-L6**  
**STARTUP AND SHUTDOWN PROCEDURES**



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

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

Each combustion turbine unit consists of two Pratt & Whitney jet engines that can fire natural gas or new No. 2 fuel oil.

**ATTACHMENT HG-EU1-L12**  
**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

RECEIVED

OCT 29 1993

Environmental Svcs  
Department

## NOTICE OF PERMIT AMENDMENT ISSUANCE

### CERTIFIED MAIL

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

DER File No.: A052-216420  
County: Pinellas

Enclosed is Amended Permit Number A053-216420 to operate Higgins Peaking Unit No. 1, 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 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 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 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 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 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 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.

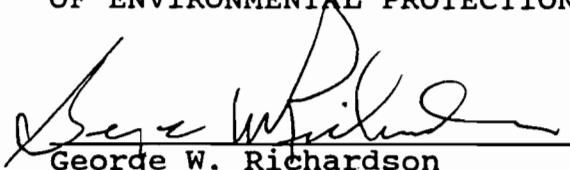
When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair 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. J. 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 AMENDMENT ISSUANCE and all copies were mailed before the close of business on OCT 27 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.

7. J. [Signature]  
Clerk

OCT 27 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: A052-216420  
County: Pinellas  
Expiration Date: 11-10-97  
Project: Higgins Peaking  
Unit No. 1

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 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 Higgins Peaking Unit No. 1. This unit is fired with natural gas or new No. 2 fuel oil. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 37.0 MW/hour having a maximum heat input rate of 566 MMBTU/hour. The maximum fuel usage rate is 0.57 MMCF/hour of natural gas or 96.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N NEDS NO: 0012 Point ID: 04

Replaces Permit No.: A052-137555

PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-216420  
Project: Higgins Peaking  
Unit No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from Higgins Peaking Unit No. 1 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 1 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could 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 it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
4. Compliance with the visible emission limitation of Specific Condition No. 2 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 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 1 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
6. 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 the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-216420  
Project: Higgins Peaking  
Unit No. 1

7. Higgins Peaking Unit No. 1 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Load Rate 37.0 MW/hour
2. Maximum Heat Input Rate: 566.0 MMBTU/hour
3. Maximum Fuel Usage: 0.57 MMCF/hour natural gas,  
96.0 BBL/hour new No. 2 fuel oil  
having a maximum sulfur content  
not to exceed 0.5% by weight

8. The BTU heating value, sulfur content (% 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. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure 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 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.

9. 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 calendar year (Rule 17-210.370(2)(a)1., F.A.C.).

10. Based on the original permit application, dated 9/8/77, 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/hour</u>	<u>tons/year</u>
Particulate	34.53	151.22
Carbon Monoxide	62.26	272.70
Sulfur Dioxide	2.82	12.36
Nitrogen Oxides	395.07	1,730.40
VOC	23.94	104.86

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

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216420  
Project: Higgins Peaking  
Unit No. 1

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following emission factors:

	<u>No. 2 Fuel Oil</u> <u>Pounds/MMBTU</u>	<u>Natural Gas</u> <u>Pounds/MMBTU</u>
Particulate	0.061	0.0419
Carbon Monoxide	0.048	0.11
Nitrogen Oxides	0.698	0.44

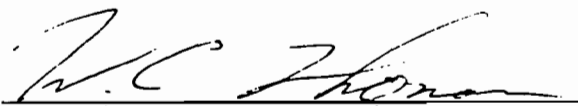
	<u>No. 2 Fuel Oil</u> <u>Pounds/10<sup>3</sup> Gallons</u>	<u>Natural Gas</u> <u>Pounds/10<sup>6</sup> ft<sup>3</sup></u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, % by weight

Emission factors for PM, CO, & NOx from AP 42, Table 3.1-1 (10/92). Emission factors for SO2 & VOC from AP 42 tables prior to 10/92.

13. Two 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.).

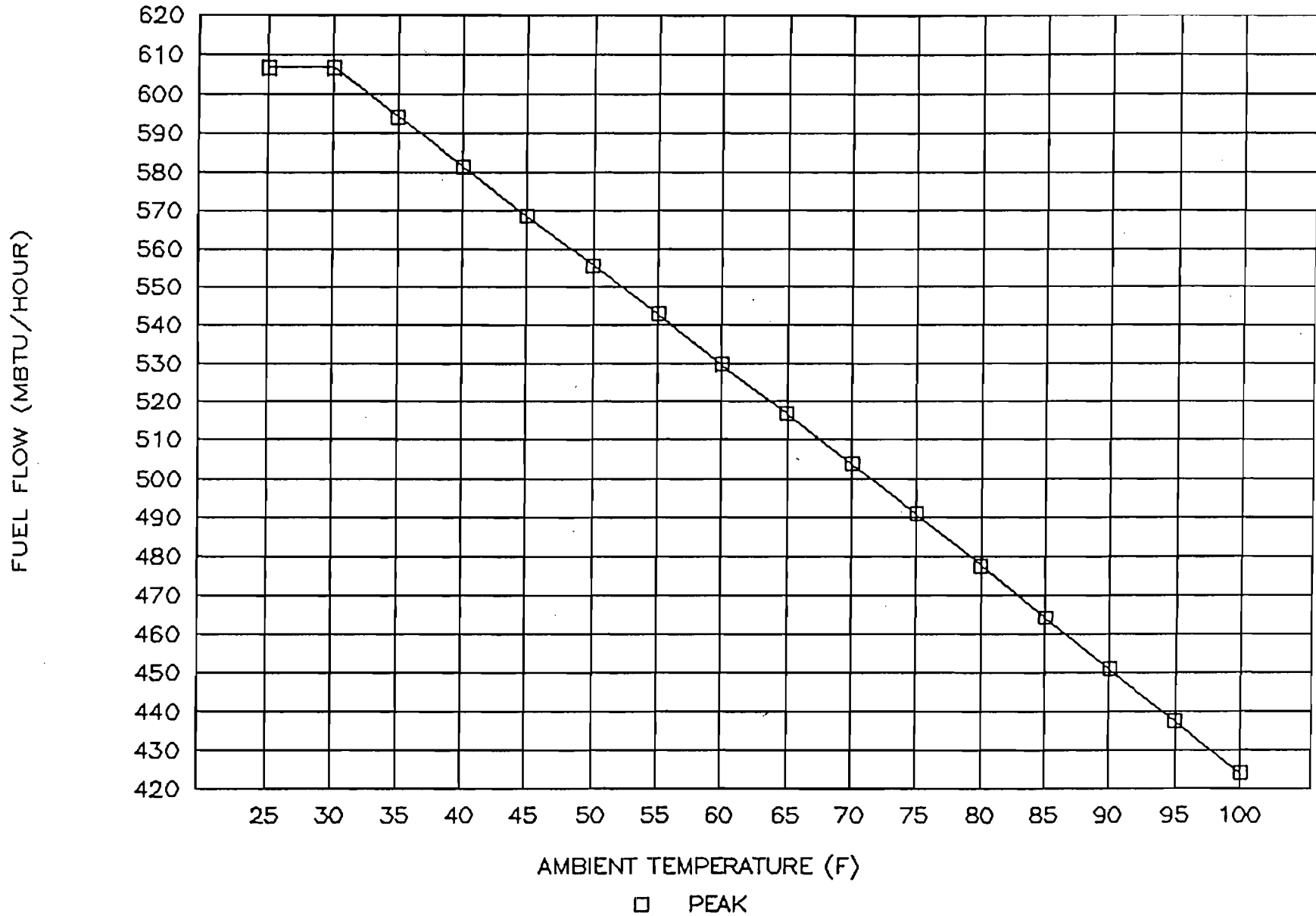
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

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

# HIGGINS P1 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)

**"OR"**

14. OR 13. 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. OR 14. 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 HG-EU1-L13**  
**COMPLIANCE ASSURANCE MONITORING PLAN**

**ATTACHMENT HG-EU1-L13**

**COMPLIANCE ASSURANCE MONITORING PLAN**

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

**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 Unit 2</b>		
2. Emissions Unit Identification Number: [ ] No Corresponding ID [ ] Unknown <b>005</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:

**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</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>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. 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>HG-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>HG-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 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 type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>12 Jan 1992</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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>HG-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>HG-EU2-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 HG-EU2-D**  
**EMISSIONS UNIT REGULATIONS**

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

Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU2: Peaking Units Gas Turbine No. 2 - FPC Higgins 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
- 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) - Operating Rate; reserved for CTs
- 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)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 position of the applicant that the use of very low sulfur oil and natural gas meets the requirements of this rule.

**ATTACHMENT HG-EU2-L12**  
**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 Protection

Lawton Chiles  
Governor

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: AO52-216421  
County: Pinellas  
Expiration Date: 11-10-97  
Project: Higgins Peaking  
Unit No. 2

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 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 Higgins Peaking Unit No. 2. This unit is fired with natural gas or new No. 2 fuel oil. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 37.0 MW/hour having a maximum heat input rate of 566 MMBTU/hour. The maximum fuel usage rate is 0.57 MMCF/hour of natural gas or 96.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N NEDS NO: 0012 Point ID: 05

Replaces Permit No.: AO52-137556



PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216421  
Project: Higgins Peaking  
Unit No. 2

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from Higgins Peaking Unit No. 2 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 2 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could 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 it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
4. Compliance with the visible emission limitation of Specific Condition No. 2 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 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 2 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
6. 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 the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216421  
Project: Higgins Peaking  
Unit No. 2

7. Higgins Peaking Unit No. 2 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Load Rate: 37.0 MW/hour
2. Maximum Heat Input Rate: 566 MMBTU/hour
3. Maximum Fuel Usage: 0.57 MMCF/hour of natural gas,  
96 BBL/hour of new No. 2 fuel oil  
having a maximum sulfur content  
not to exceed 0.5% by weight

8. The BTU heating value, sulfur content (% 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. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure 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 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.

9. 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 calendar year (Rule 17-210.370(2)(a)1., F.A.C.).

10. Based on the original permit application, dated 9/8/77, 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/hour</u>	<u>tons/year</u>
Particulate	34.53	151.22
Carbon Monoxide	62.26	272.70
Sulfur Dioxide	2.82	12.36
Nitrogen Oxides	395.07	1,730.40
VOC	23.94	104.86

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

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216421  
Project: Higgins Peaking  
Unit No. 2

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following emission factors:

	<u>No. 2 Fuel Oil</u> <u>Pounds/MMBTU</u>	<u>Natural Gas</u> <u>Pounds/MMBTU</u>
Particulate	0.061	0.0419
Carbon Monoxide	0.048	0.11
Nitrogen Oxides	0.698	0.44

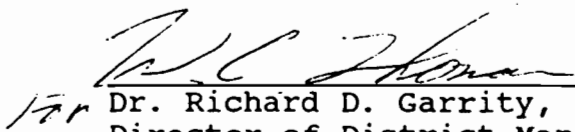
	<u>No. 2 Fuel Oil</u> <u>Pounds/10<sup>3</sup> Gallons</u>	<u>Natural Gas</u> <u>Pounds/10<sup>6</sup> ft<sup>3</sup></u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, % by weight

Emission factors for PM, CO, & NOx from AP 42, Table 3.1-1 (10/92). Emission factors for SO2 & VOC from AP 42 tables prior to 10/92.

13. Two 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.).

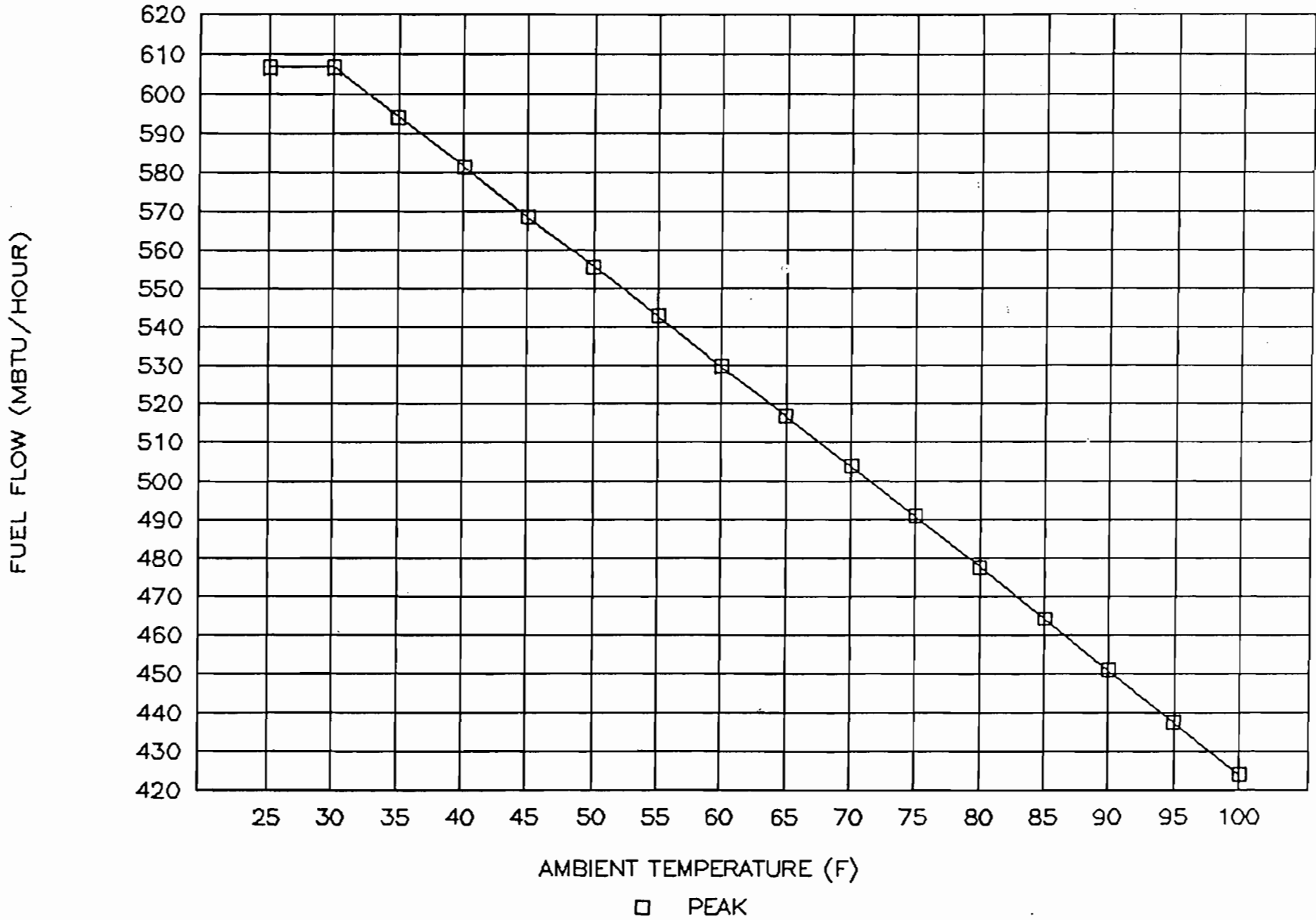
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

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

# HIGGINS P2 COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



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

**Emissions Unit Details**

1. Initial Startup Date:	12 Apr 1969	
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer:	Pratt & Whitney	Model Number:
4. Generator Nameplate Rating:	37 MW	
5. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate:	566	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):		
	Maximum heat input based on permit limit firing No. 2 fuel oil. Max. heat input function of ambient temperature (per permit condition).	

**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 HG-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>Gas turbine gases exhaust through a single stack per turbine 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>56</b> feet
7. Exit Diameter:	<b>15.1</b> feet
8. Exit Temperature:	<b>850</b> °F



9. Actual Volumetric Flow Rate:	1,000,000 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): 336.5      North (km): 3098.4
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 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Internal Combustion Electric Generation Dist. Oil/Diesel-Turbine</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>4.101</b>	5. Maximum Annual Rate:  <b>35,929</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-HHV</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>Internal Combustion Electric Generation Natural Gas Turbine</b>	
2. Source Classification Code (SCC): <b>2-01-002-01</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.57</b>	5. Maximum Annual Rate: <b>4,958</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,000</b>	
10. Segment Comment (limit to 200 characters): <b>Hourly fuel rate - permit limit</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
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>287.1 lb/hour</b>	<b>1,258 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>AO 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 HG-EU1-H8</b>		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limit based on AP-42 emission factor.</b>		

**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>287.1 lb/hour</b>	<b>1,258 tons/year</b>
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>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):		

**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 Unit 3</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown <b>006</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):
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>1 Dec 1970</b>		
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer: <b>Pratt &amp; Whitney</b>	Model Number:	
4. Generator Nameplate Rating: <b>43 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>631</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 function of ambient temperature (per permit condition).</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 HG-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: <b>EU3</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>Gas turbine gases exhaust through a single stack per turbine 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>55</b> feet
7. Exit Diameter:	<b>15.1</b> feet
8. Exit Temperature:	<b>850</b> °F

9. Actual Volumetric Flow Rate:	<b>1,000,000</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>336.5</b> North (km): <b>3098.4</b>
14. Emission Point Comment (limit to 200 characters):	
	<b>See Attachment HG-EU1-H8</b>

**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>Internal Combustion Electric Generation Dist. Oil/Diesel Turbine</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>4.572</b>	5. Maximum Annual Rate:  <b>40,055</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-HHV</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>Internal Combustion Electric Generation Natural Gas Turbine</b>	
2. Source Classification Code (SCC): <b>2-01-002-01</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.63</b>	5. Maximum Annual Rate: <b>5,528</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,000</b>	
10. Segment Comment (limit to 200 characters): <b>Hourly fuel rate - permit limit</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
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>320 lb/hour                      1,402 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>AO 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 HG-EU1-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limit based on AP-42 emission factor.</b>	

Emissions Unit Information Section 3 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>320 lb/hour</b>	<b>1,402 tons/year</b>
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>AO 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 during 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>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. 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>HG-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>HG-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 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 type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>12 Jan 1992</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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>HG-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>HG-EU3-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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 HG-EU3-D**  
**EMISSIONS UNIT REGULATIONS**

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

Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU3: Unit 1(FFSG) - FPC Higgins Plant

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:

- 62-210.650 - Circumvention
- 62-210.700(1) - Malfunction only for FFSG
- 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 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - Acid Rain Units (Certification)
- 62-214.370 - Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - Acid Rain Units (Compliance Options-if required)

Stationary Sources-Emission Standards/RACT:

- 62-296.320(4)(b) (State Only) - General VE
- 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(3) - Specific RACT Limiting Standards\*
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(a)3. - Air Pollution Control Systems/ESP
- 62-296.700(6)(d) - Fossil Fuel Steam Generators
- 62-296.700(6)(e) - Records and Inspection

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

- 62-297.310(1) - Test Runs-Mass Emission
- 62-297.310(2)(a) - Operating Rate; reserved for CTs
- 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)(a)2. - 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. - CT exemption if < 400 hrs/yr; VE test once every 5 years
- 62-297.310(7)(a)8 - FDEP Notification - 15 days
- 62-297.310(7)(a)9. - Waiver of Compliance Test (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 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

CEMS have not been installed since this unit is on long term reserve shutdown. CEMS would be added if the unit is operated.

Monitoring Part 75:

- 40 CFR 75.4 - Compliance Dates
- 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 75.12(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; Appendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS; Appendix B
- 40 CFR 75.21(b) - QA/QC; Opacity; Part 51 Appendix M
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 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(b) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.30(c) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures

- 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
  - 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
- Recordkeeping (special situations)
  - Recordkeeping-general
  - Recordkeeping-operating parameter
  - Recordkeeping-SO<sub>2</sub>
  - Recordkeeping-NO<sub>x</sub>
  - Recordkeeping-CO<sub>2</sub>
  - Recordkeeping-Opacity
  - Monitoring Plan
  - 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; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
  - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
  - Conversion Procedures
  - Determination of CO<sub>2</sub>; from combustion sources
  - Traceability Protocol

\* It is the position of the applicant that the use of very low sulfur oil and natural gas meets the requirements of this rule.

**ATTACHMENT HG-EU3-L12**  
**ADDITIONAL APPLICABLE REQUIREMENTS**



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: A052-216422  
County: Pinellas  
Expiration Date: 11-10-97  
Project: Higgins Peaking  
Unit No. 3

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 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 Higgins Peaking Unit No. 3. This unit is fired with natural gas or new No. 2 fuel oil. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 42.9 MW/hour having a maximum heat input rate of 631 MMBTU/hour. The maximum fuel usage rate is 0.63 MMCF/hour of natural gas or 107.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N NEDS NO: 0012 Point ID: 06

Replaces Permit No.: A052-137557



PERMITTEE:  
Florida Power Corporation

Permit No.: AO52-216422  
Project: Higgins Peaking  
Unit No. 3

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from Higgins Peaking Unit No. 3 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 3 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could 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 it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
4. Compliance with the visible emission limitation of Specific Condition No. 2 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 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 3 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
6. 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 the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216422  
Project: Higgins Peaking  
Unit No. 3

7. Higgins Peaking Unit No. 3 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Load Rate: 42.9 MW/hour
2. Maximum Heat Input Rate: 631 MMBTU/hour
3. Maximum Fuel Usage: 0.63 MMCF/hour of natural gas,  
107.0 BBL/hour of new No. 2 fuel  
oil having a maximum sulfur  
content not to exceed 0.5% by  
weight

8. The BTU heating value, sulfur content (% 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. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure 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 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.

9. 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 calendar year (Rule 17-210.370(2)(a)1., F.A.C.).

10. Based on the original permit application, dated 9/8/77, 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/hour</u>	<u>tons/year</u>
Particulate	38.49	168.59
Carbon Monoxide	69.41	304.42
Sulfur Dioxide	3.15	13.78
Nitrogen Oxides	440.44	1,929.12
VOC	26.46	115.89

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

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216422  
Project: Higgins Peaking  
Unit No. 3

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following emission factors:

	<u>No. 2 Fuel Oil</u> <u>Pounds/MMBTU</u>	<u>Natural Gas</u> <u>Pounds/MMBTU</u>
Particulate	0.061	0.0419
Carbon Monoxide	0.048	0.11
Nitrogen Oxides	0.698	0.44

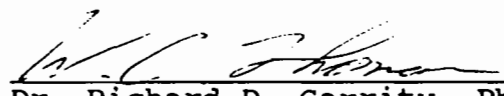
	<u>No. 2 Fuel Oil</u> <u>Pounds/10<sup>3</sup> Gallons</u>	<u>Natural Gas</u> <u>Pounds/10<sup>6</sup> ft<sup>3</sup></u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, % by weight

Emission factors for PM, CO, & NOx from AP 42, Table 3.1-1 (10/92). Emission factors for SO2 & VOC from AP 42 tables prior to 10/92.

13. Two 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.).

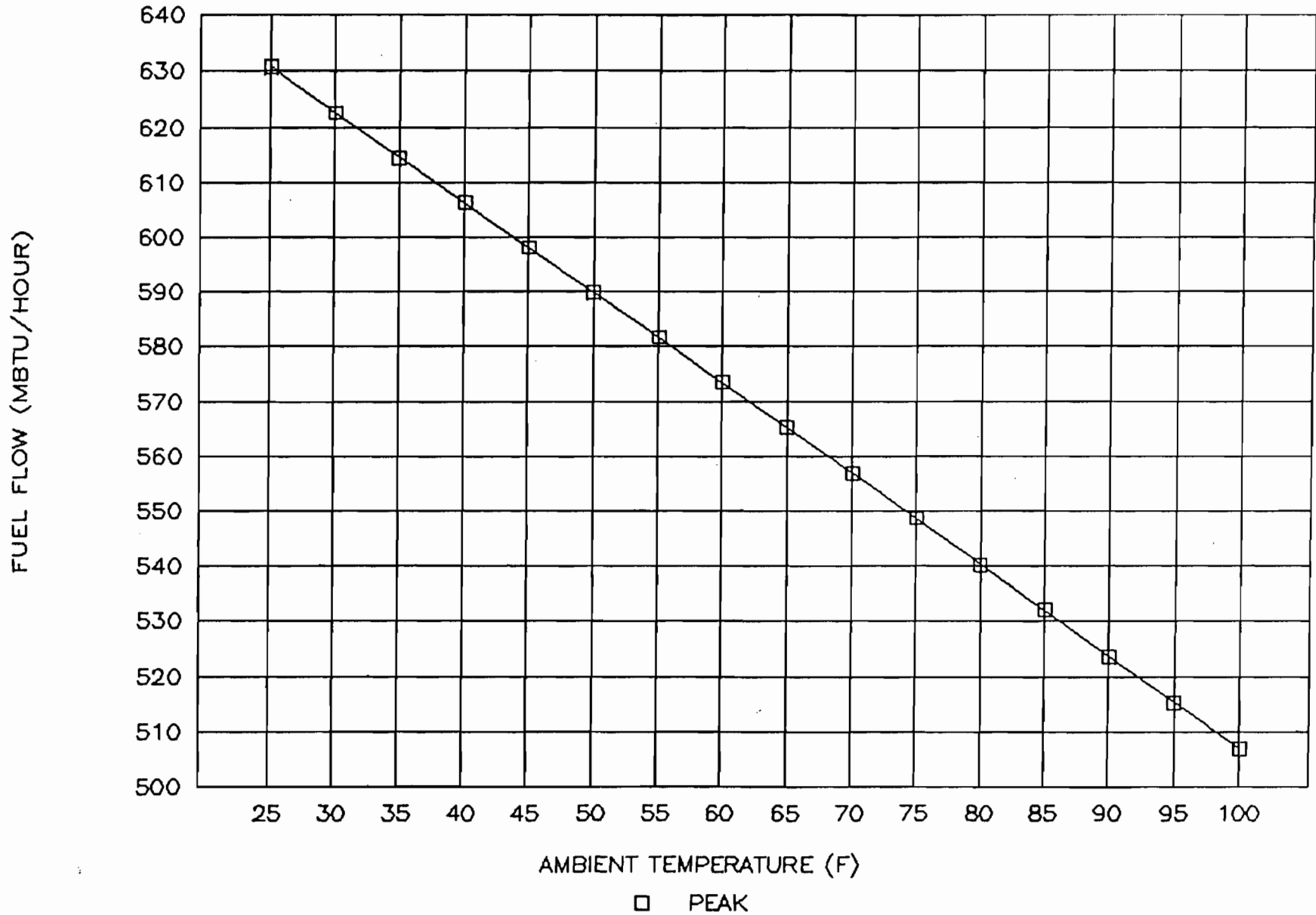
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

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

# HIGGINS P3 COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



**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>Peaking Gas Turbine Unit 4</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown <b>007</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):
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>9 Jan 1971</b>	
2. Long-term Reserve Shutdown Date:		
3. Package Unit:		
Manufacturer:	<b>Pratt &amp; Whitney</b>	Model Number:
4. Generator Nameplate Rating:	<b>43 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>631</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 function of ambient temperature(per permit condition).</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 HG-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: EU4	
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</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>55</b> feet
7. Exit Diameter:	<b>15.1</b> feet
8. Exit Temperature:	<b>850</b> °F

9. Actual Volumetric Flow Rate:	1,000,000 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): 336.5      North (km): 3098.4
14. Emission Point Comment (limit to 200 characters):	
	<b>See Attachment HG-EU1-H8</b>

**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>Internal Combustion Electric Generation Dist. Oil/Diesel Turbine</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>4.572</b>	5. Maximum Annual Rate:  <b>40,055</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-HHV</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>Internal Combustion Electric Generation Natural Gas Turbine</b>	
2. Source Classification Code (SCC): <b>2-01-002-01</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.63</b>	5. Maximum Annual Rate: <b>5,528</b>
6. Estimated Annual Activity Factor:	
7. Maximum Percent Sulfur:	8. Maximum Percent Ash:
9. Million Btu per SCC Unit: <b>1,000</b>	
10. Segment Comment (limit to 200 characters): <b>Hourly fuel rate - permit limit.</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
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>320 lb/hour</b>	<b>1,402 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>AO 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 HG-EU1-H8</b>		
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limit based on AP-42 emission factor.</b>		



Emissions Unit Information Section 4 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>320 lb/hour</b>	<b>1,402 tons/year</b>
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>AO 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 during 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>EPA Method 9</b>
5.	Visible Emissions Comment (limit to 200 characters): <b>1. 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>HG-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>HG-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 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 type="checkbox"/> Not Applicable
		<input checked="" type="checkbox"/> Previously Submitted, Date: <u>12 Jan 1992</u>	
6.	Procedures for Startup and Shutdown	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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>HG-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>HG-EU4-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU1-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 HG-EU4-D**  
**EMISSIONS UNIT REGULATIONS**



## ATTACHMENT HG-EU4-D EMISSION UNIT REGULATIONS

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU4: Unit 2(FFSG) - FPC Higgins Plant

#### 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:

- 62-210.650 - Circumvention
- 62-210.700(1) - Malfunction only for FFSG
- 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 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - Acid Rain Units (Certification)
- 62-214.370 - Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - Acid Rain Units (Compliance Options-if required)

##### Stationary Sources-Emission Standards/RACT:

- 62-296.320(4)(b) (State Only) - General VE
- 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(3) - Specific RACT Limiting Standards\*
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(a)3. - Air Pollution Control Systems/ESP
- 62-296.700(6)(d) - Fossil Fuel Steam Generators
- 62-296.700(6)(e) - Records and Inspection

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

- 62-297.310(1)
  - 62-297.310(4)(a)2.
  - 62-297.310(2)(b)
  - 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)8
  - 62-297.310(7)(a)9.
  - 62-297.310(7)(c)
  - 62-297.310(8)
- Test Runs-Mass Emission
  - Applicable Test Procedures;Sampling time
  - Operating Rate; other than CTs
  - 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
  - CT exemption if < 400 hrs/yr; VE test once every 5 years
  - FDEP Notification - 15 days
  - Waiver of Compliance Test (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)
  - 40 CFR 72.32
- 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)
  - Permit 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

CEMS have not been installed since this unit is on long term reserve shutdown. CEMS would be added if the unit is operated.

Monitoring Part 75:

- 40 CFR 75.4 - Compliance Dates
- 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 75.12(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; Appendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS; Appendix B
- 40 CFR 75.21(b) - QA/QC; Opacity; Part 51 Appendix M
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 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(b) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.30(c) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.53 - Recordkeeping (special situations)

- 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 - Monitoring Plan
- 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

\* It is the position of the applicant that the use of very low sulfur oil and natural gas meets the requirements of this rule.

**ATTACHMENT HG-EU4-L12**  
**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

## PERMITTEE:

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

## PERMIT/CERTIFICATION

Permit No: A052-216423  
County: Pinellas  
Expiration Date: 11-10-97  
Project: Higgins Peaking  
Unit No. 4

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 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 Higgins Peaking Unit No. 4. This unit is fired with natural gas or new No. 2 fuel oil. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 42.9 MW/hour having a maximum heat input rate of 631 MMBTU/hour. The maximum fuel usage rate is 0.63 MMCF/hour of natural gas or 107.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N NEDS NO: 0012 Point ID: 07

Replaces Permit No.: A052-137554

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216423  
Project: Higgins Peaking  
Unit No. 4

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. Visible emissions from Higgins Peaking Unit No. 4 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 4 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could 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 it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
4. Compliance with the visible emission limitation of Specific Condition No. 2 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 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 4 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
6. 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 the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).



PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216423  
Project: Higgins Peaking  
Unit No. 4

7. Higgins Peaking Unit No. 4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Load Rate: 42.9 MW/hour
2. Maximum Heat Input Rate: 631 MMBTU/hour
3. Maximum Fuel Usage: 0.63 MMCF/hour of natural gas, 107.0 BBL/hour of new No. 2 fuel oil having a maximum sulfur content not to exceed 0.5% by weight

8. The BTU heating value, sulfur content (% 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. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure 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 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.

9. 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 calendar year (Rule 17-210.370(2)(a)1., F.A.C.).

10. Based on the original permit application, dated 9/8/77, 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/hour</u>	<u>tons/year</u>
Particulate	38.49	168.59
Carbon Monoxide	69.41	304.42
Sulfur Dioxide	3.15	13.78
Nitrogen Oxides	440.44	1,929.12
VOC	26.46	115.89

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

PERMITTEE:  
Florida Power Corporation

Permit No.: A052-216423  
Project: Higgins Peaking  
Unit No. 4

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following emission factors:

	<u>No. 2 Fuel Oil</u> <u>Pounds/MMBTU</u>	<u>Natural Gas</u> <u>Pounds/MMBTU</u>
Particulate	0.061	0.0419
Carbon Monoxide	0.048	0.11
Nitrogen Oxides	0.698	0.44

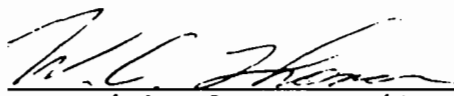
	<u>No. 2 Fuel Oil</u> <u>Pounds/10<sup>3</sup> Gallons</u>	<u>Natural Gas</u> <u>Pounds/10<sup>6</sup> ft<sup>3</sup></u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, % by weight

Emission factors for PM, CO, & NOx from AP 42, Table 3.1-1 (10/92). Emission factors for SO2 & VOC from AP 42 tables prior to 10/92.

13. Two 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.).

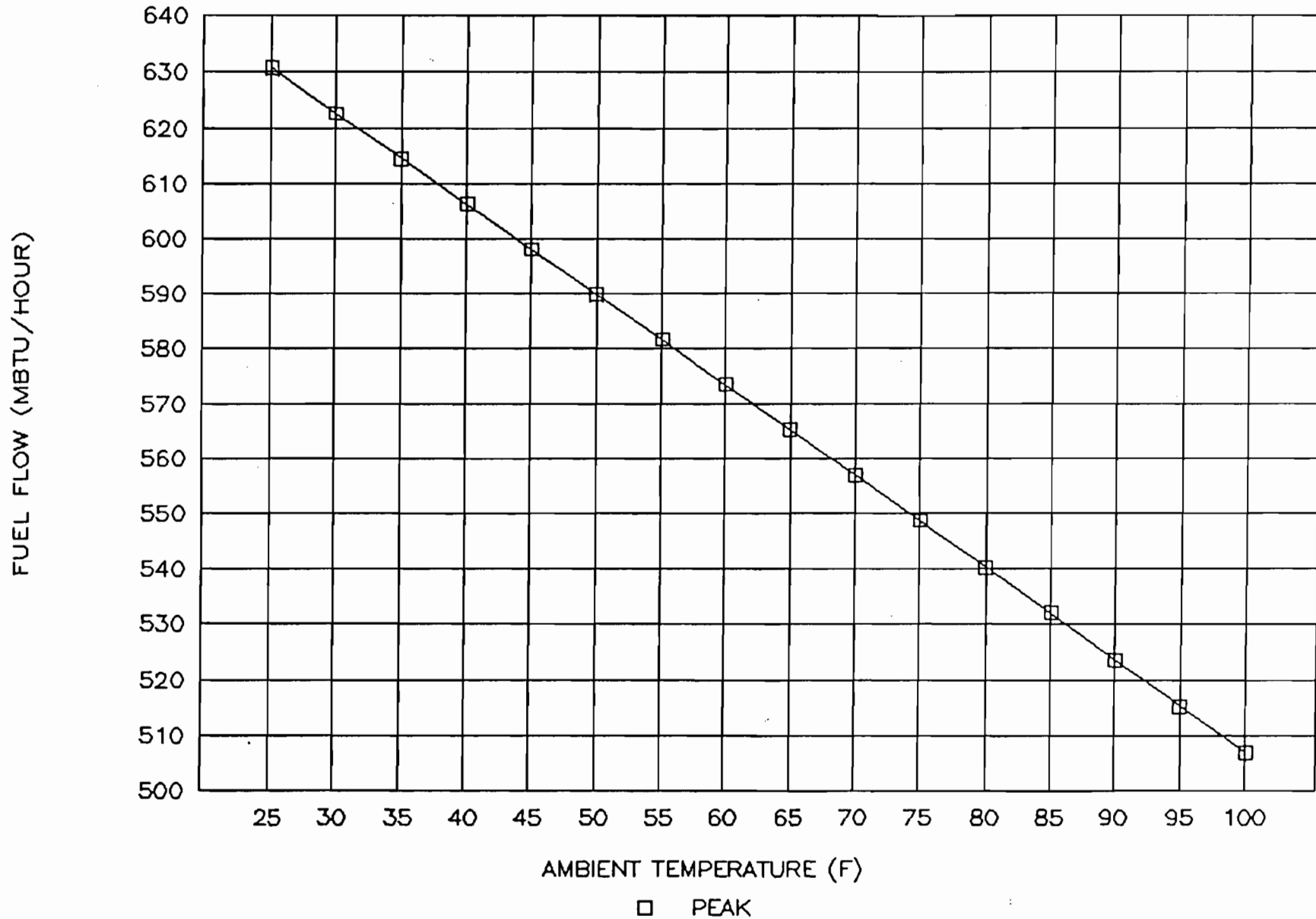
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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

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

# HIGGINS P4 COMBUSTION TURBINE

FUEL HEAT INPUT vs AMBIENT TEMPERATURE



**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>Fossil Fired Steam Boiler No. 1</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? [X] Yes [ ] 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: <b>6 Jun 1951</b>		
2. Long-term Reserve Shutdown Date: <b>24 Jan 1994</b>		
3. Package Unit: Manufacturer:	Model Number:	
4. Generator Nameplate Rating: <b>43 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>548</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 HG-EU5-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>EU5</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>174</b> feet
7. Exit Diameter:	<b>12.5</b> feet
8. Exit Temperature:	<b>312</b> °F

9. Actual Volumetric Flow Rate:	<b>204,000</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>336.5</b> North (km): <b>3098.4</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>Ext Comb Boiler Electric Generation Residual Oil No. 6 Normal Firing</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>3.605</b>	5. Maximum Annual Rate:  <b>31,582</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>1. Unit is front fired. 2. 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>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>3.971</b>	5. Maximum Annual Rate: <b>34,786</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>1. Distillate fuel oil is used as a pilot fuel for startup, shutdown, and malfunction. 2. Heat content-HHV.</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>Ext Comb Boiler Electric Generation Natural Gas</b>	
2. Source Classification Code (SCC):  <b>1-01-006-01</b>	
3. SCC Units:  <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate:  <b>0.522</b>	5. Maximum Annual Rate:  <b>4,572</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 Percent Sulfur - 1.0 grain/100 CF natural gas. Heat input-HHV.</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>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>3.971</b>	5. Maximum Annual Rate: <b>3,479</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>	

**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>1,507</b> lb/hour <b>6,600.7</b> tons/year
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</b> lb/MMBtu  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 Attachment HG-EU5-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Firing No.6 fuel oil. Permit limits maximum sulfur content to 2.5%.</b>	

Emissions Unit Information Section 5 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>1,507 lb/hour</b>	<b>6,600.7 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during annual compliance test.</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>No. 6 fuel oil. Rule 62-296.405(1). Current limit - 1% sulfur content oil based on 5-29-92 stack test; higher sulfur content allowed if PM and VE tests performed.</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>164.4 lb/hour                      300 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 HG-EU5-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, 24 hr (0.1 during normal operations, 21 hr; 0.3 during soot blowing, 3 hr).</b>	

Emissions Unit Information Section 5 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>54.8 lb/hour</b>	<b>240 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>164.4 lb/hour</b>	<b>90 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 soot-blowing 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. 86-1580</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>1. 60% opacity during and load changing and boiler cleaning for 3 hr in 24 hr; Unlimited opacity allowed for 4 six-minute periods during 3 hrs. 2. 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>1. Not to exceed 2 hr in 24 hr for malfunction. 2. 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 for startup, shutdown. Rule 62-210.700(2).</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>HG-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>HG-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-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>HG-EU5-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-L9</u>	<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>HG-EU5-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>HG-EU5-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-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>HG-EU5-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 HG-EU5-D**  
**EMISSIONS UNIT REGULATIONS**

## ATTACHMENT HG-EU5-D EMISSION UNIT REGULATIONS

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU5: Unit 1 (FFSG) - FPC Higgins Plant

#### 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:

- 62-210.650 - Circumvention
- 62-210.700(1) - Malfunction only for FFSG
- 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 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - Acid Rain Units (Certification)
- 62-214.370 - Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - Acid Rain Units (Compliance Options-if required)

##### Stationary Sources-Emission Standards/RACT:

- 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(3) - Specific RACT Limiting Standards
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(a)3. - Air Pollution Control Systems/ESP
- 62-296.700(6)(d) - Fossil Fuel Steam Generators
- 62-296.700(6)(e) - Records and Inspection

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

- 62-297.310(1) - Test Runs-Mass Emission

- 62-297.310(2)(b)
  - 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)9.
  - 62-297.310(7)(c)
  - 62-297.310(8)
- Operating Rate; other than CTs
  - 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
  - FDEP Notification - 15 days
  - Waiver of Compliance Test (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)
  - 40 CFR 72.32
  - 40 CFR 72.33(b)
  - 40 CFR 72.33(c)
  - 40 CFR 72.33(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)
  - Permit Shield
  - Dispatch System ID; unit/system ID
  - Dispatch System ID; ID requirements
  - 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

CEMS have not been installed since this unit is on long term reserve shutdown. CEMS would be added if the unit is operated.

Monitoring Part 75:

- 40 CFR 75.4 - Compliance Dates
- 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 75.12(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; Appendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS; Appendix B
- 40 CFR 75.21(b) - QA/QC; Opacity; Part 51 Appendix M
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 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(b) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.30(c) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.53 - Recordkeeping (special situations)
- 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)
  - 40 CFR 75.54(e)
  - 40 CFR 75.54(f)
  - 40 CFR 75.55
  - 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
- Recordkeeping-NO<sub>x</sub>
  - Recordkeeping-CO<sub>2</sub>
  - Recordkeeping-Opacity
  - Monitoring Plan
  - 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; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
  - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
  - Conversion Procedures
  - Determination of CO<sub>2</sub>; from combustion sources
  - Traceability Protocol



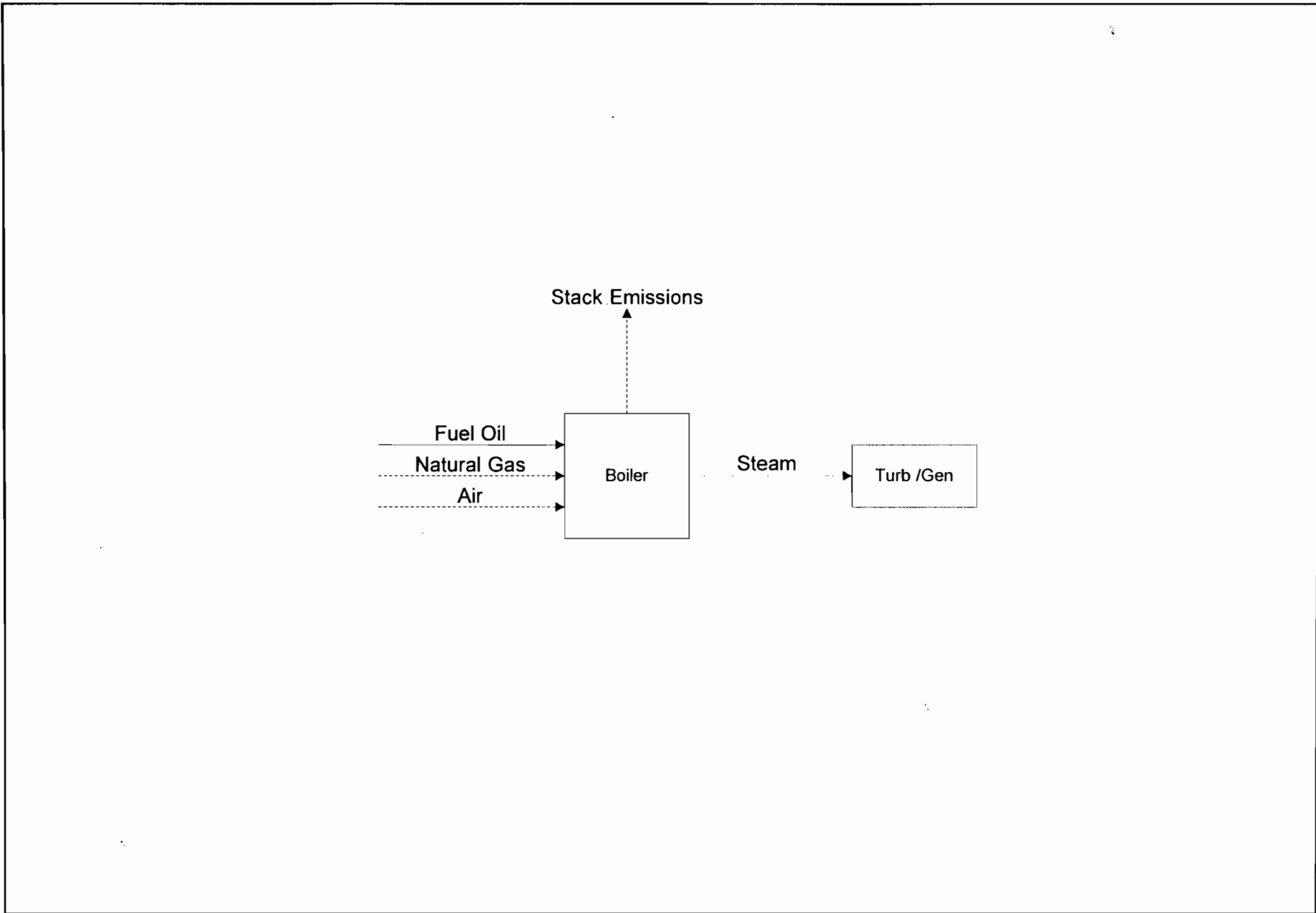
**ATTACHMENT HG-EU5-H8**  
**CALCULATION OF EMISSIONS**


Table 1. Maximum Estimated Emissions for Emissions Limited Pollutants, Steam Generator Units 1, 2, and 3, Higgins Plant

Pollutant	Unit 1		Unit 2		Unit 3	
	Oil-Firing	Natural Gas	Oil-Firing	Natural Gas	Oil-Firing	Natural Gas
Hours of Operation	8,760	8,760	8,760	8,760	8,760	8,760
Sulfur Dioxide (lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)						
Sulfur Dioxide (lb/hr) (Gas)= Fuel sulfur content (Percent; gr/ 100 cf) x 2 (64 MW SO <sub>2</sub> /32 MW S) x Fuel Consumption (Fuel units/hr)						
Basis	DEP Rules	1 gr S/100 cf	DEP Rules	1 gr S/100 cf	DEP Rules	1 gr S/100 cf
EF (lb/MMBtu)	2.75		2.75		2.75	
HIR (MMBtu/hr)	548		523		548	
Sulfur content (gr/100 cf)		1		1		1
Fuel consumption (100 cf/hr)		5,219.0		4,981.0		5,219.0
lb/hr	1507.0	1.5	1438.3	1.4	1507.0	1.5
TPY	6600.7	6.5	6299.5	6.2	6600.7	6.5
Particulate Matter (lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)						
Particulate Matter (lb/hr) (Gas)= EF (lb/fuel unit) x Fuel Consumption (fuel unit)						
Basis (1)	DEP Rules	AP-42	DEP Rules	AP-42	DEP Rules	AP-42
EF (lb/MMBtu) or (lb/MMcf)	0.3	3	0.3	3	0.3	3
EF (lb/MMBtu) (Oil; normal/sootblowing; annual)	0.125		0.125		0.125	
HIR (MMBtu/hr)	548	548	523	523	548	548
Fuel consumption (MMcf/hr)		0.52		0.50		0.52
lb/hr	164.4	1.6	156.9	1.5	164.4	1.6
TPY	300.0	6.9	286.3	6.5	300.0	6.9
Particulate Matter (PM-10)(lb/hr) (Oil)= EF (lb/MMBtu) x Heat Input Rate (MMBtu/hr)						
Particulate Matter (PM-10)(lb/hr) (Gas)= EF (lb/fuel unit) x Fuel Consumption (fuel unit)						
Basis (1)	DEP Rules	AP-42	DEP Rules	AP-42	DEP Rules	AP-42
EF (lb/MMBtu) or (lb/MMcf)	0.3	3	0.3	3	0.3	3
EF (lb/MMBtu) (Oil; normal/sootblowing; annual)	0.125		0.125		0.125	
HIR (MMBtu/hr)	548	548	523	523	548	548
Fuel consumption (MMcf/hr)		0.52		0.50		0.52
lb/hr	164.4	1.6	156.9	1.5	164.4	1.6
TPY	300.0	6.9	286.3	6.5	300.0	6.9

(1) FDEP Rule 62-296.405(1) and 62-296.800; 0.3 and 0.1 lb/MMBtu for soot-blowing and normal operations, respectively; EPA, 1994, AP-42, Table 1.4-1.

**ATTACHMENT HG-EU5-L1**  
**PROCESS FLOW DIAGRAM**



<b>Process Flow Legend</b> -----▶ Steam Flow -----▶ Gas Flow -----▶ Solid / Liquid Flow	Florida Power Corporation, Higgins Plant Process Flow Diagram	<i>Emission Unit:</i> Boiler No. 1	 <b>KBN</b> Engineering and Applied Sciences, Inc.
		<i>Process Area:</i> Overall Plant	
<i>Filename:</i> FPCHG.VSD			
		<i>Latest Revision Date:</i> 12/14/95 02:51 PM	

**ATTACHMENT HG-EU5-L2**  
**FUEL ANALYSIS OR SPECIFICATION**

Attachment HG-EU5-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 HG-EU5-L2

Fuel Analysis

No. 6 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max 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	0.04 <sup>2</sup>	2.5 <sup>3</sup>
% nitrogen	0.25 - 0.50	0.10
% ash	0.06 - 0.10	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 HG-EU5-L2

Fuel Analysis

No. 2 Fuel Oil

<u>Parameter</u>	<u>Typical Value</u>	<u>Max Value</u>
API gravity @ 60 F	28 <sup>1</sup>	-
Relative density	7.1 lb/gal <sup>2</sup>	
Heat content	19,500 Btu / lb (LHV)	
% sulfur	0.04 <sup>2</sup>	0.5 <sup>3</sup>
% nitrogen	0.025 - 0.030	
% ash	negligible	0.1

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 HG-EU5-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 (LHV)	138,000
% sulfur	0.3 - 0.5	2.5
% 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 HG-EU5-L4**  
**DESCRIPTION OF STACK SAMPLING FACILITIES**

## ATTACHMENT HG-EU5-L4

### DESCRIPTION OF STACK SAMPLING FACILITIES

The Higgins Plant Steam Generator Unit No. 1 and 2 are required by Permit AO52-216382 and AO52-216383 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. A diagram depicting stack sampling facilities is presented as an attachment. As specified by rule, the permanent test facilities meet the following:

- 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.

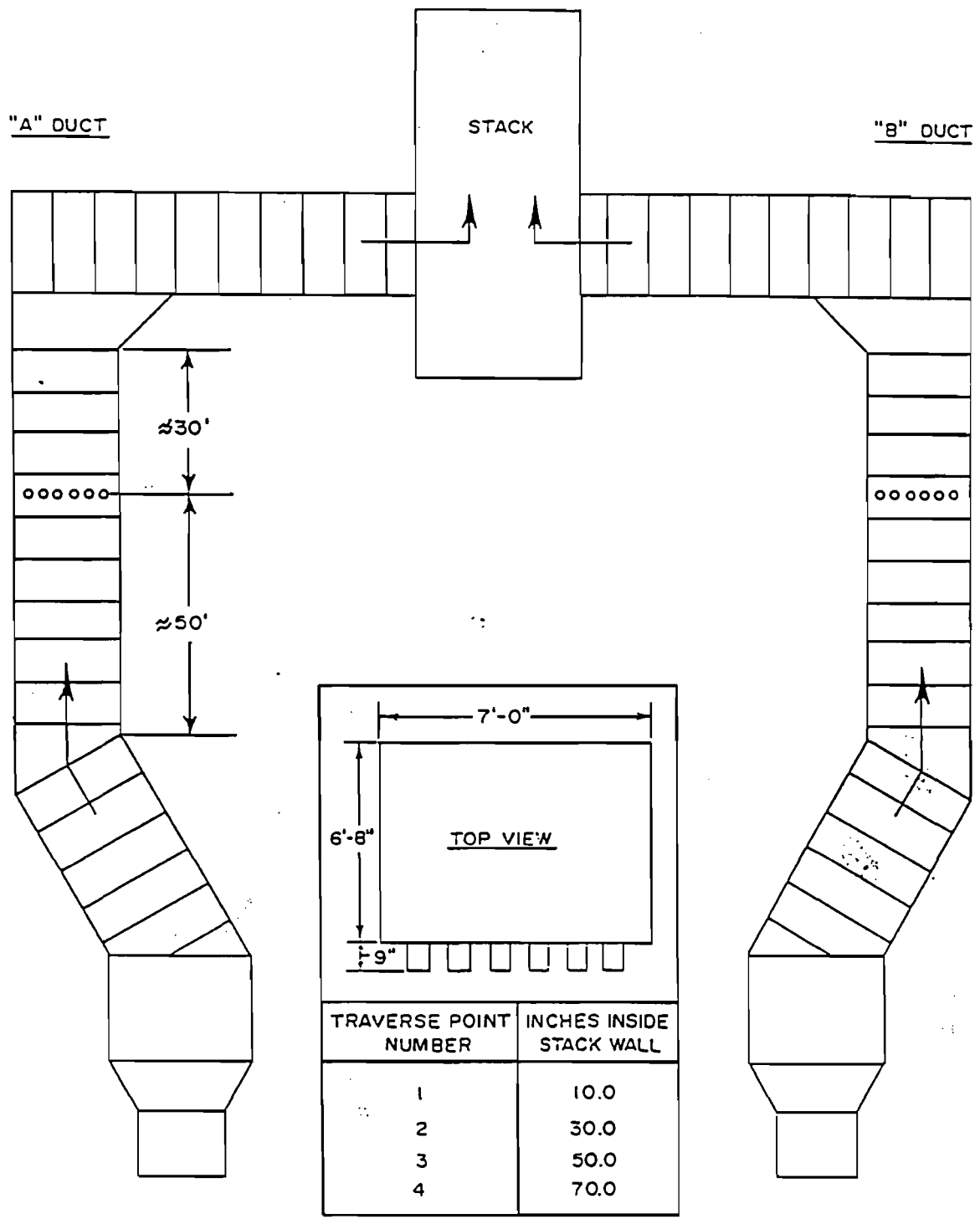


FIGURE I.  
 FLUE GAS EXHAUST SYSTEM SCHEMATIC  
 UNITS 1 AND 2  
 FPC HIGGINS PLANT  
 OLDSMAR, FLORIDA

AIR CONSULTING  
 and ENGINEERING

**ATTACHMENT HG-EU5-L5**  
**COMPLIANCE TEST REPORT**

**ATTACHMENT HG-EU5-L5**

**COMPLIANCE TEST REPORT**

Steam Units No. 1, 2, and 3 for the Higgins Plant were placed in long-term reserve shutdown on January 24, 1994. As a result, these units have not been operating and have not been required to perform applicable compliance tests. The latest compliance tests were performed in May 1993 and the results were submitted to FDEP.

**ATTACHMENT HG-EU5-L6**  
**STARTUP AND SHUTDOWN PROCEDURES**

**ATTACHMENT HG-EU5-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



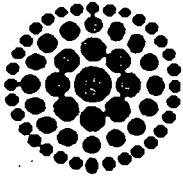
limits, maximum allowable duration of excess emissions, appropriate countermeasures for excess emissions, duty to notify, and fuels and combustion training.

**ATTACHMENT HG-EU5-L7**

**OPERATION AND MAINTENANCE PLAN**

**(See Air Operating Permit for Higgins Unit 1, AO52-216382,  
Specific Condition No. 15; See Attachment HG-EU5-L12)**

**ATTACHMENT HG-EU5-L9**  
**OTHER INFORMATION REQUIRED**  
**BY RULE OR STATUTE**



**Florida  
Power**  
CORPORATION

bcc: D. T. Buell  
G. E. Marks

Route: Hedrick/Osbourn/Morneault/Kennedy (last)

File: HIGA.1.1

January 13, 1994

Mr. J. Harry Kerns, P.E.  
District Air Engineer  
Southwest District  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, FL 33619

Dear Mr. Kerns:

Re: Higgins Steam Units 1, 2, 3 Long-term Reserve Shutdown  
(Permit Nos. A052-216382, -216383, -216384)

Florida Power Corporation is providing the Department of Environmental Protection notification that the units referenced above will be placed in long-term reserve shutdown on January 24, 1994.

To the best of my knowledge, these units are currently operating in compliance with all applicable air pollution rules and air operation permit conditions.

Please contact Mr. Mike Kennedy at (813) 866-4344 if you have any questions.

Sincerely,

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

cc: Mr. Gary Robbins, Pinellas County

**ATTACHMENT HG-EU5-L10**  
**ALTERNATIVE METHODS OF OPERATION**

ATTACHMENT HG-EU5-L10  
ALTERNATIVE METHODS OF OPERATION

The boiler units currently are not in operation and have been place in long-term reserve shutdown under Rule 62-210.300(2)(a)3.d. Each boiler can fire No. 6 fuel oil using No. 2 fuel oil as an ignitor fuel during startup. These boilers can also fire on-specification used oil and natural gas as an alternate fuel when available.

**ATTACHMENT HG-EU5-L12**  
**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.: A052-216382  
County: Pinellas

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

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Enclosed is revised Permit Number A052-216382 to operate the Higgins Unit No. 1 located in Oldsmar, issued pursuant to Section 403, Florida Statutes. This permit has been revised as a result the FPC comments submitted on March 17, 1993 and subsequent discussions between FPC and DER staff. Please replace the previously received version of permit number A052-216382 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

- (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.

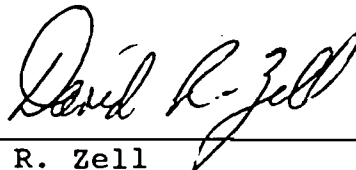
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard 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

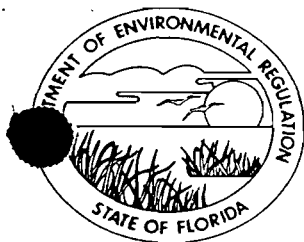
CERTIFICATE OF SERVICE

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

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Virginia B. Wetherell, Secretary

**PERMITTEE:**

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

**PERMIT/CERTIFICATION:**

Permit No: A052-216382  
County: Pinellas  
Expiration Date: 09/16/97  
Project: Steam Generator  
Higgins Unit No. 1

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 Higgins Unit No. 1, a fossil fuel fired electric utility steam generator rated at 43 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 548 MMBtu/hour (87 BBL/hour, 3,654 gallons/hour). As an alternate fuel when available, the unit can also be fired on natural gas at a maximum rate of  $0.5 \times 10^6$  ft<sup>3</sup>/hour.

**Location:** Higgins Plant, Shore Drive, Oldsmar

**UTM:** 17-336.54 E 3098.25 N **NEDS No:** 0012 **Point ID No:** 01

Replaces Permit No.: A052-137124

(Note: This permit also replaces the 1st version of A052-216382 issued January 26, 1993)

PERMITTEE:

Florida Power Corp.  
Higgins Plant  
Oldsmar

PERMIT/PROJECT:

Permit No.: AO52-216382  
County: Pinellas  
Project: Higgins Unit 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 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 548 MMBtu/hr (3,654 gallons/hour when firing No. 6 fuel oil). If firing 100% natural gas, the maximum heat input rate shall not exceed 525 MMBtu/hr (0.5 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 1,507 pounds per hour at the maximum heat input rate.  
(\* See also Specific Condition No. 14.)  
[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, 54.8 pounds per hour, nor 240 tons per year;
  - B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 164.4 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.  
Higgins Plant  
Oldsmar

**PERMIT/PROJECT:**

Permit No.: A052-216382  
County: Pinellas  
Project: Higgins Unit 1

**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. 86-1580, 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 May 5. 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)

(\* Note: This source was authorized by Order of the Department Secretary dated December 11, 1986 (OGC File No. 86-1580) to test  
(continued)

PERMITTEE:

Florida Power Corp.  
Higgins Plant  
Oldsmar

PERMIT/PROJECT:

Permit No.: AO52-216382  
County: Pinellas  
Project: Higgins Unit 1

SPECIFIC CONDITIONS:

9. (continued)

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 File 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 all particulate and VE compliance tests based on analysis of an as-fired oil sample taken 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.  
Higgins Plant  
Oldsmar

PERMIT/PROJECT:

Permit No.: A052-216382  
County: Pinellas  
Project: Higgins Unit 1

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. However, based on the rate at which the May 1992 stack test was conducted, the maximum permitted fuel oil sulfur content for this boiler is currently limited to 1.0 % S by weight. A compliance test submitted at an operating rate less than 90% of the permitted rates will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher rate, is submitted. Any time the above permitted fuel oil sulfur content (monthly average) is exceeded by more than 10% for two consecutive months or 20% for any single month then particulate and visible emissions compliance tests, conducted while using the higher sulfur content fuel oil, shall be performed within 45 days of the end of the month that triggers this requirement. The test results shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management 45 days of such testing. Acceptance of the test by the Department will constitute an amended permit at the tested higher sulfur content, not to exceed a maximum sulfur content of 2.5 %S by weight. Failure to submit the fuel oil firing rate and sulfur content, 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.  
Higgins Plant  
Oldsmar

PERMIT/PROJECT:

Permit No.: A052-216382  
County: Pinellas  
Project: Higgins Unit 1

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: 548 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: 3,654 gallons/hour (87 BBL/hour) of No. 6 oil (maximum),  
0.5 MMCF/hour of natural gas (max.)
4. Ash content: as sampled
5. Steam Temperature: 950 °F
6. Steam Pressure: 1,315 psi
7. Steam Flow Rate: 450,000 pounds/hour
8. Stack Height: 174 feet
9. Boiler Manufacturer: Babcock and Wilcox
10. Burner Arrangement: Front 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.  
Higgins Plant  
Oldsmar

PERMIT/PROJECT:

Permit No.: A052-216382  
County: Pinellas  
Project: Higgins Unit 1

SPECIFIC CONDITIONS:

- 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, 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.].

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	pounds/hour	tons/year
Particulate (PM)	54.8	240.0
Sulfur dioxide (SO2)	1,507.0	6,600.7
Carbon Monoxide (CO)	20.0	87.6
Nitrogen Oxides (NOx)	383.7	1,680.0
Volatile Organics (VOC)	2.9	12.2

**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar

**PERMIT/PROJECT:**

Permit No.: AO52-216382  
County: Pinellas  
Project: Higgins Unit 1

**SPECIFIC CONDITIONS:**

**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 Higgins 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:

Pollutant	No. 6 Oil Ef (lb/1000 gal)	Natural Gas Ef (lb/MMCF)
SO <sub>2</sub>	157(S)	0.6
CO	5	5
NO <sub>x</sub>	105	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.  
Higgins Plant  
Oldsmar

**PERMIT/PROJECT:**

Permit No.: AO52-216382  
County: Pinellas  
Project: Higgins Unit 1


**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

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

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.

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. 86-1580  
Higgins Unit No. 1; )  
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:

Higgins Unit No.1

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 May 12, 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 Higgins Unit No.1 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

**BEST AVAILABLE COPY**


waiver of any right such person has to an administrative determination (hearing) under Section 120.57, Florida Statutes.

DONE AND ORDERED this 11<sup>th</sup> day of Dec, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

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

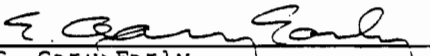
C. Hutchins                      12-12-86  
Clerk                                      Date

  
\_\_\_\_\_  
VICTORIA J. TSCHINKEL  
Secretary

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Telephone (904)488-9730

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 12 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

**ATTACHMENT HG-EU5-L13**  
**COMPLIANCE ASSURANCE MONITORING PLAN**

**ATTACHMENT HG-EU5-L13**

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

**ATTACHMENT HG-EU5-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

Higgins Plant, FL, 630
------------------------

**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		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			

**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)  
*Higgins 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)  
*Higgins 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,

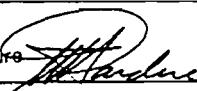
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

**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 *W. Jeffrey Pardue, C.E.P., Director, Environmental Services Dept.*

Signature



Date *12/14/95*

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

AIRS
FINDS



# Certificate of Representation

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	Higgins	State	FL	ORIS Code	630
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**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) Higgins

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) [Signature] Date 11/5/92
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 Florida Power Corporation [X] Owner [X] Operator
ID# 1 ID# 2 ID# 3 ID# ID# ID# ID#
ID# ID# ID# ID# ID# ID# ID#
Regulatory Authorities Florida Public Service Commission

Name [ ] Owner [ ] Operator
ID# ID# ID# ID# ID# ID# ID#
ID# ID# ID# ID# ID# ID# ID#
Regulatory Authorities

Name [ ] Owner [ ] Operator
ID# ID# ID# ID# ID# ID# ID#
ID# ID# ID# ID# ID# ID# ID#
Regulatory Authorities

Name [ ] Owner [ ] Operator
ID# ID# ID# ID# ID# ID# ID#
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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:

[ 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>Fossil Fired Steam Boiler No. 2</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? [X] Yes [ ] 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:	<b>30 Jun 1953</b>
2. Long-term Reserve Shutdown Date:	<b>24 Jan 1994</b>
3. Package Unit: Manufacturer: <b>NA</b>	Model Number: <b>NA</b>
4. Generator Nameplate Rating:	<b>42 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>523</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>1. Maximum heat input based on permit limit firing No. 6.</b></p>	

**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 HG-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: <b>EU6</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>174</b> feet
7. Exit Diameter:	<b>12.5</b> feet
8. Exit Temperature:	<b>310</b> °F

9. Actual Volumetric Flow Rate:	<b>206,000</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>336.5</b> North (km): <b>3098.4</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>Ext Comb Boiler Electric Generation Residual Oil No. 6</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>3.441</b>	5. Maximum Annual Rate:  <b>30,141</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>1. 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>Ext Comb Boiler Electric Generation Natural Gas</b>	
2. Source Classification Code (SCC): <b>1-01-006-01</b>	
3. SCC Units: <b>Million Cubic Feet Burned</b>	
4. Maximum Hourly Rate: <b>0.498</b>	5. Maximum Annual Rate: <b>4,363</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 Percent Sulfur: 1.0 grain/100CF natural gas. 2) Heat input-HHV.</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>Ext Comb Boiler Electric Generation Distillate Oil No. 1 &amp; 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>3.79</b>	5. Maximum Annual Rate:  <b>33,199</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 used as a pilot fuel for startup, shutdown, and malfunction. Heat content-HHV.</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>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>3.79</b>	5. Maximum Annual Rate: <b>3,320</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>	



**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>1,438.3 lb/hour                      6,299.5 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>2.75 lb/MMBtu</b>  Reference: <b>FDEP Rule 62-296.405</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>See HG-EU5-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Firing No.6 fuel oil. Permit limits maximum sulfur content to 2.5%.</b>	

**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>1,438.3 lb/hour</b>	<b>6,299.5 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during annual compliance test.</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Firing No. 6 fuel oil. Rule 62-296.405(1). Current limit - 1% sulfur content oil based on 5/29/92 stack test; higher sulfur content allowed if PM and VE tests performed.</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>156.9 lb/hour                      286.3 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>0.3 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 HG-EU5-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Potential lb/hr - soot-blowing while oil firing. 2. Potential TPY - 0.125 lb/MMBtu, 24 hr (0.1 during normal operations, 21 hr; 0.3 during soot blowing, 3 hr).</b>	

Emissions Unit Information Section 6 of 8  
Allowable Emissions (Pollutant identified on front page)

Fossil Fired Steam Boiler No 2  
 Particulate Matter - Total

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>52.3 lb/hour</b>	<b>229.1 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>156.9 lb/hour</b>	<b>85.9 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 soot-blowing 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. 86-1581</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>1. 60% opacity during load changing and boiler cleaning for 3 hr in 24 hr; Unlimited opacity allowed for 4 six-minute periods during 3 hr. 2. 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>1. Not to exceed 2 hr in 24 hr for malfunction. 2. 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 for startup, shutdown. Rule 62-210.700(2).</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>HG-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>HG-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-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>HG-EU5-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-L9</u>	<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>HG-EU5-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>HG-EU6-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-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>HG-EU5-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 HG-EU6-D**  
**EMISSIONS UNIT REGULATIONS**

## ATTACHMENT HG-EU6-D EMISSION UNIT REGULATIONS

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU6: Unit 2 (FFSG) - FPC Higgins Plant

#### 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:

- 62-210.650 - Circumvention
- 62-210.700(1) - Malfunction only for FFSG
- 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 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - Acid Rain Units (Certification)
- 62-214.370 - Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - Acid Rain Units (Compliance Options-if required)

##### Stationary Sources-Emission Standards/RACT:

- 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(3) - Specific RACT Limiting Standards
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(a)3. - Air Pollution Control Systems/ESP
- 62-296.700(6)(d) - Fossil Fuel Steam Generators
- 62-296.700(6)(e) - Records and Inspection

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

- 62-297.310(1) - Test Runs-Mass Emission

- 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)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
  - FDEP Notification - 15 days
  - Waiver of Compliance Test (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)
  - 40 CFR 72.32
  - 40 CFR 72.33(b)
  - 40 CFR 72.33(c)
  - 40 CFR 72.33(d)
  - 40 CFR 72.40(a)
  - 40 CFR 72.40(b)
- 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)
  - Permit Shield
  - Dispatch System ID; unit/system ID
  - Dispatch System ID; ID requirements
  - Dispatch System ID; ID change
  - General; compliance plan
  - General; multi-unit compliance options

- 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

CEMS have not been installed since this unit is on long term reserve shutdown. CEMS would be added if the unit is operated.

Monitoring Part 75:

- 40 CFR 75.4 - Compliance Dates
- 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 75.12(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; Appendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS; Appendix B
- 40 CFR 75.21(b) - QA/QC; Opacity; Part 51 Appendix M
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 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(b) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.30(c) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.53 - Recordkeeping (special situations)
- 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)
  - 40 CFR 75.54(e)
  - 40 CFR 75.54(f)
  - 40 CFR 75.55
  - 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
- Recordkeeping-NO<sub>x</sub>
  - Recordkeeping-CO<sub>2</sub>
  - Recordkeeping-Opacity
  - Monitoring Plan
  - 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; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
  - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
  - Conversion Procedures
  - Determination of CO<sub>2</sub>; from combustion sources
  - Traceability Protocol

**ATTACHMENT HG-EU6-L7**

**OPERATION AND MAINTENANCE PLAN**

**(See Air Operating Permit for Higgins Unit 2, AO52-216383,  
Specific Condition No. 15; See Attachment HG-EU6-L12)**

**ATTACHMENT HG-EU6-L12**  
**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.: A052-216383  
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 A052-216383 to operate the Higgins Unit No. 2 located in Oldsmar, issued pursuant to Section 403, Florida Statutes. This permit has been revised as a result the FPC comments submitted on March 17, 1993 and subsequent discussions between FPC and DER staff. Please replace the previously received version of permit number A052-216383 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;

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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

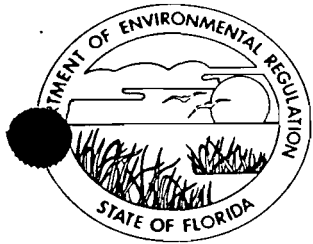
CERTIFICATE OF SERVICE

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  
Higgins Plant  
P.O. Box 14042  
St. Petersburg, FL 33733

**PERMIT/CERTIFICATION:**

Permit No: A052-216383  
County: Pinellas  
Expiration Date: 09/16/97  
Project: Steam Generator  
Higgins 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 Higgins Unit No. 2, a fossil fuel fired electric utility steam generator rated at 43 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 523 MMBtu/hour (83 BBL/hour, 3,486 gallons/hour). As an alternate fuel when available, the unit can also be fired on natural gas at a maximum rate of  $0.49 \times 10^6$  ft<sup>3</sup>/hour.

**Location:** Higgins Plant, Shore Drive, Oldsmar

**UTM:** 17-336.54 E      3098.25 N      **NEDS No:** 0012      **Point ID No:** 02

Replaces Permit No.: A052-137125

(Note: This permit also replaces the 1st version of A052-216383 issued January 26, 1993)



PERMITTEE:

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: A052-216383  
County: Pinellas  
Project: Higgins 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, with natural gas as an alternate fuel when available. The maximum heat input rate to this boiler shall not exceed 523 MMBtu/hr (3,486 gallons/hour when firing No. 6 fuel oil). If firing 100% natural gas, the maximum gas firing rate shall not exceed 0.49 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 1,438 pounds per hour at maximum heat input rate. (\* See also Specific Condition No. 14.) [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, 52.3 pounds per hour, nor 229 tons per year;
  - B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 156.9 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.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: A052-216383  
County: Pinellas  
Project: Higgins 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. 86-1581, 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 May 5. 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)

(\* Note: This source was authorized by Order of the Department Secretary dated December 11, 1986 (OGC File No. 86-1580) to test  
(continued)

**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: AO52-216383  
County: Pinellas  
Project: Higgins Unit 2

**SPECIFIC CONDITIONS:**

9. (continued)

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 File 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 all particulate and VE compliance tests based on analysis of an as-fired oil sample taken 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.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: AO52-216383  
County: Pinellas  
Project: Higgins 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. However, based on the rate at which the May 1992 stack test was conducted, the maximum permitted fuel oil sulfur content for this boiler is currently limited to 1.0 % S by weight. A compliance test submitted at an operating rate less than 90% of the permitted rates will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher rate, is submitted. Any time the above permitted fuel oil sulfur content (monthly average) is exceeded by more than 10% for two consecutive months or 20% for any single month then particulate and visible emissions compliance tests, conducted while using the higher sulfur content fuel oil, shall be performed within 45 days of the end of the month that triggers this requirement. The test results shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management 45 days of such testing. Acceptance of the test by the Department will constitute an amended permit at the tested higher sulfur content, not to exceed a maximum sulfur content of 2.5 %S by weight. Failure to submit the fuel oil firing rate and sulfur content, 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.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: A052-216383  
County: Pinellas  
Project: Higgins Unit 2

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: 523 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: 3,486 gallons/hour (83 BBL/hour) of No. 6 oil (maximum),  
0.49 MMCF/hr of natural gas (max.)
4. Ash content: as sampled
5. Steam Temperature: 950 °F
6. Steam Pressure: 1,315 psi
7. Steam Flow Rate: 450,000 pounds/hour
8. Stack Height 174 feet
9. Boiler Manufacturer: Babcock and Wilcox
10. Burner Arrangement: Front 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.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: AO52-216383  
County: Pinellas  
Project: Higgins Unit 2

**SPECIFIC CONDITIONS:**

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, fuel)
  - b. flows (steam, feedwater, fuel)
  - c. unit load
  
5. Fuel oil quality is to be checked prior to delivery and a 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.].

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	pounds/hour	tons/year
Particulate (PM)	52.3	229.0
Sulfur dioxide (SO <sub>2</sub> )	1,438.3	6,299.5
Carbon Monoxide (CO)	19.6	85.9
Nitrogen Oxides (NO <sub>x</sub> )	366.0	1,603.2
Volatile Organics (VOC)	2.7	11.6

**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: A052-216383  
County: Pinellas  
Project: Higgins Unit 2

**SPECIFIC CONDITIONS:**

**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 Higgins 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 VOC 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:

Pollutant	No. 6 Oil Ef (lb/1000 gal)	Natural Gas Ef (lb/MMCF)
SO <sub>2</sub>	157(S)	0.6
CO	5	5
NO <sub>x</sub>	105	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.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: A052-216383  
County: Pinellas  
Project: Higgins Unit 2

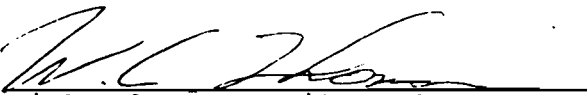
**SPECIFIC CONDITIONS:**

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



131 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. 86-1581  
Higgins Unit No. 2; )  
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:

Higgins Unit No.2

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 April 27, 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 Higgins Unit No.2 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

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waiver of any right such person has to an administrative determination (hearing) under Section 120.57, Florida Statutes.

DONE AND ORDERED this 11<sup>th</sup> day of Dec, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

FILING AND ACKNOWLEDGEMENT

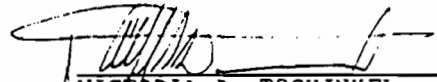
FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

C. Hitchman

Clerk

12-12-86

Date

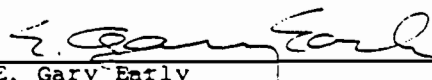


VICTORIA J. TSCHINKEL  
Secretary

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Telephone (904)488-9730

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 12 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)486-9730

**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>Fossil Fired Steam Boiler No. 3</b>		
2. Emissions Unit Identification Number: <input type="checkbox"/> No Corresponding ID <input type="checkbox"/> Unknown <b>003</b>		
3. Emissions Unit Status Code: <b>A</b>	4. Acid Rain Unit? <input checked="" type="checkbox"/> Yes <input 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):
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 Jan 1954</b>
2. Long-term Reserve Shutdown Date:	<b>24 Jan 1994</b>
3. Package Unit: Manufacturer:	Model Number:
4. Generator Nameplate Rating:	<b>41 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>548</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>1. Maximum heat input based on permit limit firing No. 6 fuel oil.</b></p>	

**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 HG-EU7-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: EU7	
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>174</b> feet
7. Exit Diameter:	<b>12.5</b> feet
8. Exit Temperature:	<b>301</b> °F

9. Actual Volumetric Flow Rate:	<b>180,500</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>336.5</b> North (km): <b>3098.4</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 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters):  <b>Ext Comb Boiler Electric Generation Residual Oil No. 6</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>3.605</b>	5. Maximum Annual Rate:  <b>31,582</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>1. Maximum heat input based on oil firing. 2. 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>Ext Comb Boiler Electric Generation Distillate Oil No. 1 or 2</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>3.971</b>	5. Maximum Annual Rate: <b>34,786</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>	

**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>3.971</b>	5. Maximum Annual Rate:  <b>3,479</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
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>1,507 lb/hour                      6,600.7 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: <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 HG-EU5-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Permit limits maximum sulfur content to 2.5%. Firing No.6 fuel oil.</b>	

Emissions Unit Information Section 7 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>1,507 lb/hour</b>	<b>6,600.7 tons/year</b>
5. Method of Compliance (limit to 60 characters): <b>Fuel analysis during annual compliance test.</b>		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): <b>Firing No. 6 fuel oil. Rule 62-296.405(1). Current limit - 1% sulfur content fuel oil based on 5/29/92 stack test; higher sulfur content allowed if PM and VE tests performed.</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>164.4 lb/hour                      300 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 HG-EU5-H8</b>	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):  <b>Potential lb/hr - soot-blowing while oil firing. 2. Potential TPY - 0.125 lb/MMBtu, 24 hr (0.1 during normal operations, 21 hr; 0.3 during soot blowing, 3 hr).</b>	

Emissions Unit Information Section 7 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>54.8 lb/hour</b>	<b>240 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>164.4 lb/hour</b>	<b>90 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 soot-blowing 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. 86-1582</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>1. 60% opacity during load changing and boiler cleaning for 3 hr in 24 hr; Unlimited opacity allowed for 4 six-minute periods during 3 hr. 2. 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>1. Not to exceed 2 hr in 24 hr for malfunction. 2. 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 for startup , shutdown. Rule 62-210.700(2).</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>HG-EU7-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>HG-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU7-L4</u>	<input type="checkbox"/> Waiver Requested
		<input type="checkbox"/> Not Applicable	
5.	Compliance Test Report	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-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>HG-EU5-L6</u>	<input type="checkbox"/> Not Applicable
7.	Operation and Maintenance Plan	<input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU7-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 checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-L9</u>	<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>HG-EU5-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>HG-EU7-L12</u> <input type="checkbox"/> Not Applicable
13. Compliance Assurance Monitoring Plan <input checked="" type="checkbox"/> Attached, Document ID: <u>HG-EU5-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>HG-EU5-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 HG-EU7-D**  
**EMISSIONS UNIT REGULATIONS**



## ATTACHMENT HG-EU7-D EMISSION UNIT REGULATIONS

### Applicable Requirements Listing - Power Plants

EMISSION UNIT: EU7: Unit 3 (FFSG) - FPC Higgins Plant

#### 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:

- 62-210.650 - Circumvention
- 62-210.700(1) - Malfunction only for FFSG
- 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 214.430)
- 62-214.340 - Exemptions (new units, retired units)
- 62-214.350(2);(3);(6) - Acid Rain Units (Certification)
- 62-214.370 - Acid Rain Units (Revisions; correction; potentially applicable if a need arises)
- 62-214.430 - Acid Rain Units (Compliance Options-if required)

##### Stationary Sources-Emission Standards/RACT:

- 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(3) - Specific RACT Limiting Standards
- 62-296.700(4) - Maximum Allowable Emission Rates
- 62-296.700(5) - Circumvention
- 62-296.700(6)(a)3. - Air Pollution Control Systems/ESP
- 62-296.700(6)(d) - Fossil Fuel Steam Generators
- 62-296.700(6)(e) - Records and Inspection

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

- 62-297.310(1) - Test Runs-Mass Emission

- 62-297.310(2)(b)
  - 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)9.
  - 62-297.310(7)(c)
  - 62-297.310(8)
- Operating Rate; other than CTs
  - 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
  - FDEP Notification - 15 days
  - Waiver of Compliance Test (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)
  - 40 CFR 72.32
  - 40 CFR 72.33(b)
  - 40 CFR 72.33(c)
  - 40 CFR 72.33(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)
  - Permit Shield
  - Dispatch System ID; unit/system ID
  - Dispatch System ID; ID requirements
  - 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

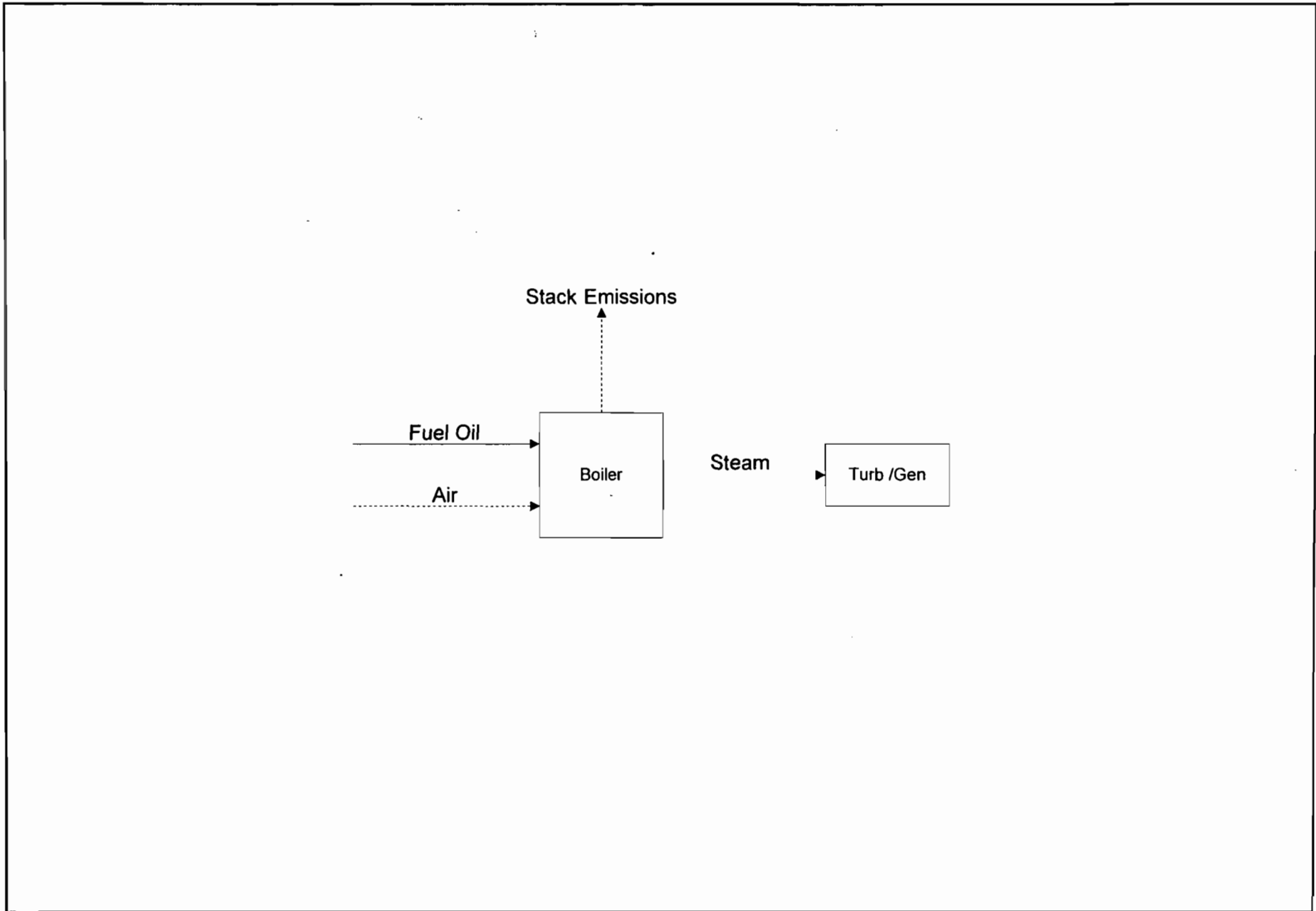
CEMS have not been installed since this unit is on long term reserve shutdown. CEMS would be added if the unit is operated.

Monitoring Part 75:

- 40 CFR 75.4 - Compliance Dates
- 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 75.12(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; Appendix D & E
- 40 CFR 75.21(a) - QA/QC; CEMS; Appendix B
- 40 CFR 75.21(b) - QA/QC; Opacity; Part 51 Appendix M
- 40 CFR 75.21(c) - QA/QC; Calibration Gases
- 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(b) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.30(c) - General Missing Data Procedures; certified backup monitor
- 40 CFR 75.32 - Monitoring Data Availability for Missing Data
- 40 CFR 75.33 - Standard Missing Data Procedures
- 40 CFR 75.53 - Recordkeeping (special situations)
- 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)
  - 40 CFR 75.54(e)
  - 40 CFR 75.54(f)
  - 40 CFR 75.55
  - 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
- Recordkeeping-NO<sub>x</sub>
  - Recordkeeping-CO<sub>2</sub>
  - Recordkeeping-Opacity
  - Monitoring Plan
  - 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; SO<sub>2</sub>/NO<sub>x</sub> for controlled sources
  - Missing Data; Load-Based Procedure; NO<sub>x</sub> & flow
  - Conversion Procedures
  - Determination of CO<sub>2</sub>; from combustion sources
  - Traceability Protocol

**ATTACHMENT HG-EU7-L1**  
**PROCESS FLOW DIAGRAM**



**ATTACHMENT HG-EU7-L4**  
**DESCRIPTION OF STACK SAMPLING FACILITIES**

## ATTACHMENT HG-EU7-L4

### DESCRIPTION OF STACK SAMPLING FACILITIES

The Higgins Plant Steam Generator Unit No. 3 is required by Permit AO52-216384 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. A diagram depicting stack sampling facilities is presented as an attachment. As specified by rule, the permanent test facilities meet the following:

- 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.



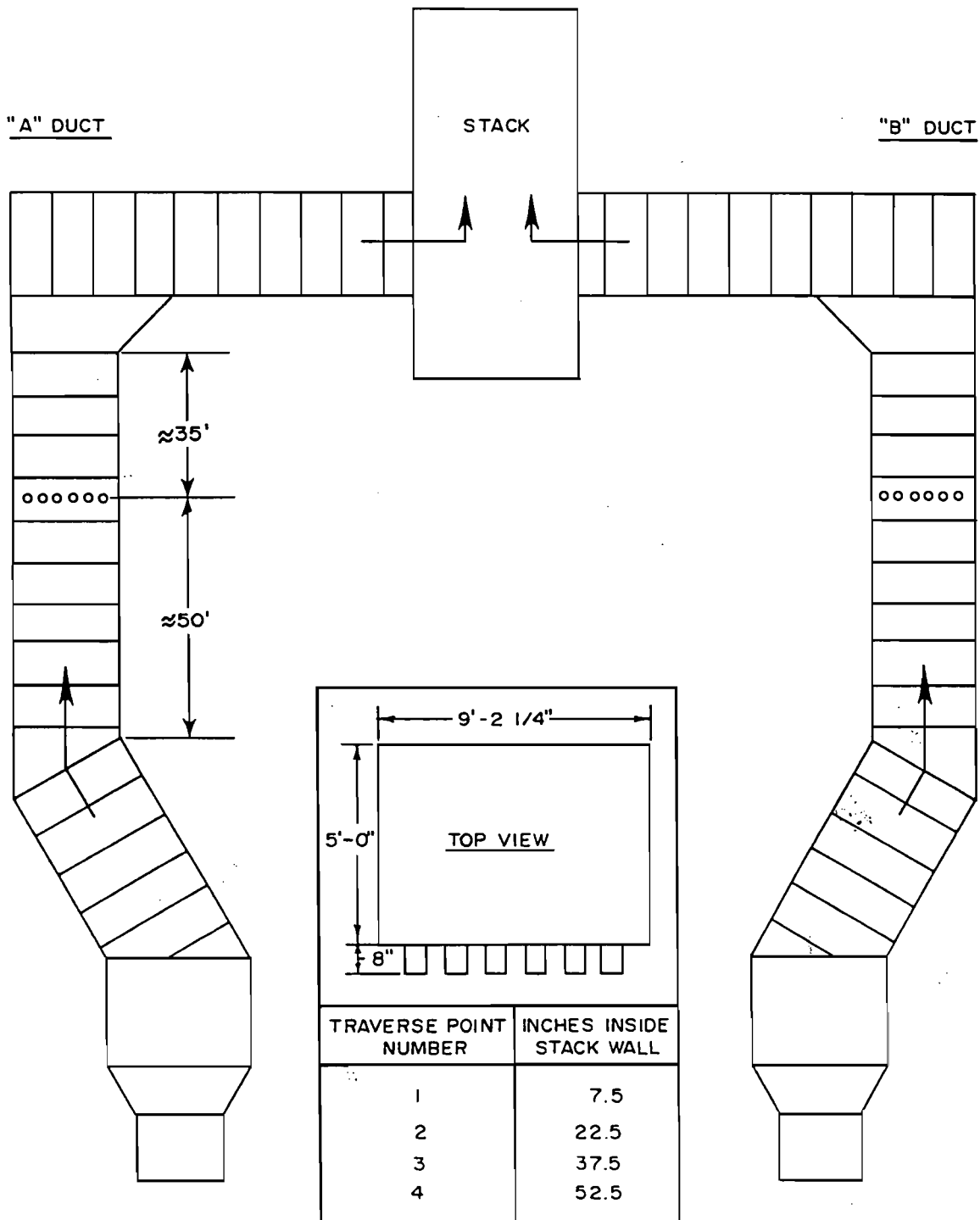


FIGURE I.  
 FLUE GAS EXHAUST SYSTEM SCHEMATIC  
 UNIT 3  
 FPC HIGGINS PLANT  
 OLDSMAR, FLORIDA

AIR CONSULTING  
 and ENGINEERING

**ATTACHMENT HG-EU7-L7**

**OPERATION AND MAINTENANCE PLAN**

**(See Air Operating Permit for Higgins Unit 3, AO52-216384,  
Specific Condition No. 15; See Attachment HG-EU7-L12)**

**ATTACHMENT HG-EU7-L12**  
**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.: A052-216384  
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 A052-216384 to operate the Higgins Unit No. 3 located in Oldsmar, issued pursuant to Section 403, Florida Statutes. This permit has been revised as a result the FPC comments submitted on March 17, 1993 and subsequent discussions between FPC and DER staff. Please replace the previously received version of permit number A052-216384 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

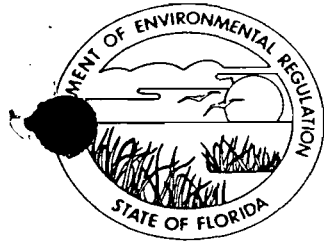
The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT RE-ISSUANCE and all copies were mailed by certified mail before the close of business on APR 26 1993 to the listed persons.

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

Lawton Chiles, Governor

3804 Coconut Palm

813-744-6100

Tampa, Florida 33619

Virginia B. Wetherell, Secretary

**PERMITTEE:**

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

**PERMIT/CERTIFICATION:**

Permit No: A052-216384  
County: Pinellas  
Expiration Date: 09/16/97  
Project: Steam Generator  
Higgins 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 Higgins Unit No. 3, a fossil fuel fired electric utility steam generator rated at 43 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 548 MMBtu/hour (87 BBL/hour, 3,654 gallons/hour).

**Location:** Higgins Plant, Shore Drive, Oldsmar

**UTM:** 17-336.54 E      3098.25 N      **NEDS No:** 0012      **Point ID No:** 03

Replaces Permit No.: A052-137126

(Note: This permit also replaces the 1st version of A052-216384 issued January 26, 1993)



**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: AO52-216384  
County: Pinellas  
Project: Higgins 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 at a maximum heat input rate not to exceed 548 MMBtu/hr (3,654 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 1,507 pounds per hour at maximum heat input rate.  
(\* See also Specific Condition No. 14.)  
[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, 54.8 pounds per hour, nor 240 tons per year;
    - B. During boiler cleaning (sootblowing) and load changes particulate matter emissions shall not exceed 0.30 pounds/MMBtu, nor 164.4 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.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: AO52-216384  
County: Pinellas  
Project: Higgins 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. 86-1582, 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 May 7. 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)

(\* Note: This source was authorized by Order of the Department Secretary dated December 11, 1986 (OGC File No. 86-1582) to test  
(continued)

**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: AO52-216384  
County: Pinellas  
Project: Higgins Unit 3

**SPECIFIC CONDITIONS:**

9. (continued)

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 File 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 all particulate and VE compliance tests based on analysis of an as-fired oil sample taken 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.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: AO52-216384  
County: Pinellas  
Project: Higgins 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. However, based on the rate at which the May 1992 stack test was conducted, the maximum permitted fuel oil sulfur content for this boiler is currently limited to 1.0 % S by weight. A compliance test submitted at an operating rate less than 90% of the permitted rates will automatically constitute an amended permit at the lesser rate until another test, showing compliance at a higher rate, is submitted. Any time the above permitted fuel oil sulfur content (monthly average) is exceeded by more than 10% for two consecutive months or 20% for any single month then particulate and visible emissions compliance tests, conducted while using the higher sulfur content fuel oil, shall be performed within 45 days of the end of the month that triggers this requirement. The test results shall be submitted to the Air Sections of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management 45 days of such testing. Acceptance of the test by the Department will constitute an amended permit at the tested higher sulfur content, not to exceed a maximum sulfur content of 2.5 %S by weight. Failure to submit the fuel oil firing rate and sulfur content, 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.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: A052-216384  
County: Pinellas  
Project: Higgins 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: 548 MMBtu/hour (maximum)
2. Fuel: No. 6 Fuel oil with a max. sulfur content of 2.5%
3. Fuel Firing Rate: 3,654 gallons/hour (87 BBL/hour) of No. 6 oil (maximum),
4. Ash content: as sampled
5. Steam Temperature: 950 °F
6. Steam Pressure: 1,315 psi
7. Steam Flow Rate: 450,000 pounds/hour
8. Stack Height 174 feet
9. Boiler Manufacturer: Combustion Engineering
10. Burner Arrangement: Tangentially 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.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: A052-216384  
County: Pinellas  
Project: Higgins Unit 3

**SPECIFIC CONDITIONS:**

- 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, fuel)
  - b. flows (steam, feedwater, fuel)
  - c. unit load
  
- 5. Fuel oil quality is to be checked prior to delivery and a 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.].

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	pounds/hour	tons/year
Particulate (PM)	54.8	240.0
Sulfur dioxide (SO2)	1,507.0	6,600.7
Carbon Monoxide (CO)	18.3	80.0
Nitrogen Oxides (NOx)	153.5	672.2
Volatile Organics (VOC)	2.9	12.2

PERMITTEE:

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

PERMIT/PROJECT:

Permit No.: AO52-216384  
County: Pinellas  
Project: Higgins Unit 3

SPECIFIC CONDITIONS:

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 Higgins 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 VOC 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:

Pollutant	No. 6 Oil Ef (lb/1000 gal)
SO <sub>2</sub>	157(S)
CO	5
NO <sub>x</sub>	105
VOC	0.76

(Provide calculation sheets to document calculation method)

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

**PERMITTEE:**

Florida Power Corp.  
Higgins Plant  
Oldsmar, FL

**PERMIT/PROJECT:**

Permit No.: A052-216384  
County: Pinellas  
Project: Higgins 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**

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, 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:

- (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. 86-1582  
Higgins 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:

Higgins 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 May 5, 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 Higgins 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

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waiver of any right such person has to an administrative determination (hearing) under Section 120.57, Florida Statutes.

DONE AND ORDERED this 11<sup>th</sup> day of Dec, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to §120.52 Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

C. Hitchner

Clerk

12-12-86

Date




VICTORIA J. TSCHINKEL

Secretary

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida  
32399-2400  
Telephone (904)488-9730

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 12 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

**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.

[ **x** ] 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).

[ **x** ] 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 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 HG-EU8-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>Thousands gallons stored</b>	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:
6. Estimated Annual Activity Factor:  <b>6,759</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 HG-EU8-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>235,856</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 emissions unit at time permit appl. submittal. See Attachment HG-EU8-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 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>	lb/hour	tons/year
	NO <sub>2</sub>		tons/year
5.	PSD Comment (limit to 200 characters):		

**ATTACHMENT HG-EU8-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 HG-EU8-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Higgins, Unregulated Emissions Unit

Area	Emission Unit Description	Status
Maintenance/Machine shop	Sand blaster, drill press, welding, lathes,	ER/TR
	Cabinets with solvents, oils, flammables, etc.	TR
	Parts washer- light oil (not current)	TR
	Cylinders (acetylene, etc.)	TR
General Boiler Building-	Emergency diesel generator (basement)- fuel oil tank (300 gal.)	TR/UR
	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	ER/TR
	Cabinets with solvents, oils, flammables, etc.	TR
	Flammable liquid cabinets (oils, solvents, paints, etc.)	TR
	Paint cabinets- closed	TR
Unit 1	Turbine lube oil reservoir tank	UR
	Waste oil sump and recovery tank	UR
	Oil gun cleaning station (No. 2 oil used)	TR
Unit 2	Turbine lube oil reservoir tank	UR
	Waste oil sump and recovery tank	UR
	Oil gun cleaning station (No. 2 oil used)	TR
Unit 3	Turbine lube oil reservoir tank	UR
	Waste oil sump and recovery tank	UR
	Oil gun cleaning station (No. 2 oil used)	TR
Gas Turbine 1 (GT 2, 3, 4)	Lube Oil Vent with demister	UR
	Lube oil storage tank (underground)- 2600 gal.	UR
	Waste oil storage tank- 546 gal.	UR

Attachment HG-EU8-B6  
General Emissions Unit Information for Unregulated Emissions Unit

Table 1. FPC, Higgins, Unregulated Emissions Unit

Area	Emission Unit Description	Status
	Turbine cooling- 175 gal. 50% glycol/50% water mix.	TR
Fuel Storage and Associated Areas	Tank No.1- No. 6 Fuel Oil 56,000 bbls	UR
	Tank No.2- No. 6 Fuel Oil 80,000 bbls	UR
	Peaker Tank No. 1- No. 2 Fuel Oil 400,000 gal.	UR
	Peaker Tank No. 2- No. 2 Fuel Oil 636,000 gal.	UR
	Pump diesel fuel tank (percolation pond spray field) (200 gal)	UR
	Emergency fire pump diesel fuel tanks (2) (110 gal)	UR
	Aux. diesel tank (500 gal)	UR
	Hydraulic oil tank (2100 gal)	UR
	Fuel truck unloading station	UR
General Site	Oil water separators	TR
Substation	Transformers and Associated Equipment	TR

Note: ER = Exempt by rule 62-210.300(3)(a); TR = Trivial;  
UR = Unregulated

Attachment HG-EU8-B6  
General Emissions Unit Information

Table 2. FPC, Higgins Plant, Petroleum Product Storage and Throughput Operations

FPC Tank No.	Storage Product	Storage Tank Size (gallons)	Potential Annual Throughput (gallons)
CT #01(#1 Tank)	No. 2 fuel oil	404,922	54,976,300
CT #02(#2 Tank)	No. 2 fuel oil	635,670	86,304,980
CT #11	Waste oil (below ground)	546	3,276
CT #12	Waste oil (below ground)	546	3,276
CT #13	Waste oil (below ground)	546	3,276
CT #14	Waste oil (below ground)	546	3,276
CT No. 1	Lube oil (below ground)	2600	2600
CT No. 2	Lube oil (below ground)	2600	2600
CT No. 3	Lube oil (below ground)	2600	2600
CT No. 4	Lube oil (below ground)	2600	2600
Plant #01(#1 Tank)	No. 6 fuel oil	2,335,704	38,707,128
Plant #02(#2 Tank)	No. 6 fuel oil	3,369,702	55,842,472
Plant #04	Diesel (equipment)	110	660
Plant #05	Diesel (equipment)	110	660
Plant #06	Diesel (equipment)	200	1,200
Plant #07	Auxiliary diesel	500	3000
Plant #09	Hydraulic oil	2184	5000
	TOTAL	6,758,802	235,855,704