

MEMORANDUM

TO: FILE

THROUGH: BILL THOMAS, P.E. *WTT 10/26/93*

THROUGH: HARRY KERNS, P.E. *HK*

FROM: GEORGE RICHARDSON *GR*

DATE: October 20, 1993

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Units 1,2,3 & 4
Permit Amendments
A052-216420, 216421, 216422 & 216423

These permit amendments are for the four peaking units at the Higgins Plant located at Booth Road, Oldsmar, Pinellas County.

The first amendment is to Specific Condition No. 3, change test this unit for VE if it operated on oil for more than 120 hours to test for VE if this unit operated on oil for more than 400 hours.

The second amendment is to Specific Condition No. 5, change testing must be accomplished within 90-100% of the maximum permitted rate, to testing shall be conducted in accordance with the submitted graph for each unit of maximum heat input versus ambient temperature. This testing procedure was blessed by Preston Lewis as representative of the true operation of the peakers.

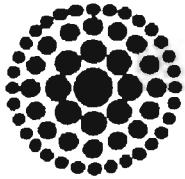
The third amendment is to Specific Condition No. 8 which changes the way the fuel oil is monitored.

The fourth amendment is to add Specific Condition No. 10 which sets the maximum potential emission rate for each unit.

The fifth amendment is to add Specific Condition No. 11.

The sixth amendment is to add Specific Condition No. 12 which gives the emission factors to calculate annual emissions for the AOR.

The PCDEM, FPC and I are in agreement on the amendments at this time.



**Florida
Power**
CORPORATION

November 30, 1992

Mr. Jeff Braswell, Esq.
Office of General Counsel
Florida Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, FL 32399-2400

DEC 02 1992

SOUTHWEST DISTRICT TAMPA

Dear Mr. Braswell:

Re: Higgins Peaking Units Renewal Permits
(Permit Nos. A052-216421, -216422, -216423, -216424)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Because of the Thanksgiving holiday, not all affected parties at FPC have had sufficient time to fully review the permits. Therefore, in accordance with Rule 17-103.070, FPC respectfully requests an extension of the time in which to file for a petition for an administrative hearing, up to and including January 29, 1993. Mr. Harry Kerns of FDER has been contacted regarding this request and has given his concurrence.

Thank you for your consideration of this request. Please contact Mr. Mike Kennedy of my staff at (813) 866-4344 if you have any questions.

Sincerely,

Pat Glyzaid, for/

W. Jeffrey Pardue, Manager
Environmental Programs

cc: ~~Mr. Harry Kerns, FDER~~
Mr. Gary Robbins, Pinellas County
Mr. Albert W. Morneault, P.E.

MEMORANDUM

TO: File

THRU: W. C. Thomas, P.E.

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardson *GR*

DATE: November 10, 1992

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Unit No. 4
A052-216423

This permit is for the operation of Higgins Peaking Unit No. 4 located at Booth Road, Oldsmar, Pinellas County.

This unit consists of two Pratt & Whitney jet engines. This unit is fired on natural gas or new No. 2 fuel oil.

This unit was tested for visible emissions while firing natural gas on January 7, 1992 and it was in compliance.

Received verbal OK from the PCDEM to issue permits.

I recommend this permit be issued as conditioned.

PERMIT APPLICATION FEE/ASSIGNMENT SHEET

APPLICATION TYPE AO (Renewal) FILE/PROCESSING NO. A 052-216423
 COMPANY Florida Power Corp. COUNTY Pinellas
 SOURCE DESCRIPTION/COMMENTS Higgins Peaking Unit 4 (Gas Turbine)
 DATE APPL. REC'D (Day 1): 7/17/92
 CHECK ATTACHED: Y N APPLICATION SUB TYPE CODE 00
 Not Required () Similar Source
 FEE SUBMITTED: () correct () incorrect - Should Be \$ 0
 Submitted \$ - 0
 Needed/Refund \$ 7
 FEE CHECKED BY: DMJ DATE 7/17/92
 APPLICATION ASSIGNED TO: _____ DATE _____

PERMIT APPLICATION PROCESSING STATUS

*10 Days to 9000 11/10
 Issued by 11/20/92*

	<u>Completed</u>	<u>Initials</u>
Date PATS Updated With Processor Name:	_____	_____
Date AC Logged By Section Secretary:	_____	_____
Permit Engineer Submit Finished Permit Package & Recommendations to District Air Engineer:	<u>11-10-92</u>	<u>DMJ</u>
Permit Package to District Air Administrator:	_____	_____
Permit Package to Director of District Management:	<u>11/10/92</u>	<u>DMJ</u>
Permit Package Mailed Out:	<u>NOV 13 1992</u>	<u>DMJ</u>

DATA FOLLOW UP

Issue Date Updated on PATS:	<u>NOV 13 1992</u>	<u>DMJ</u>
Updated on Wang:	_____	_____

APPLICATION TRACKING SYSTEM

NOV 13 1992

07/20/92

APPL NO:216423

APPL RECVD:07/16/92 TYPE CODE:AO SUBCODE:00

LAST UPDATE:07/20/92

DER OFFICE RECVD:TFA DER OFFICE TRANSFER TO:___

APPLICATION COMPLETE:___/___/___

DER PROCESSOR:AIR

APPL STATUS:AC DATE:07/16/92 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING

DISTRICT:40 COUNTY:52

(Y/N) N OGC HEARING REQUESTED

LAT/LONG:28.00.08/82.39.49

(Y/N) N PUBLIC NOTICE REQD?

BASIN-SEGMENT:___

(Y/N) N GOV BODY LOCAL APPROVAL REQD?

CDE #:_____

(Y/N) Y LETTER OF INTENT REQD? ___ (I/ISSUE D/DENY)

ALT#:_____

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 4

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:_____

PHONE:_____

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:_____

STREET:_____

CITY:_____

STATE:___

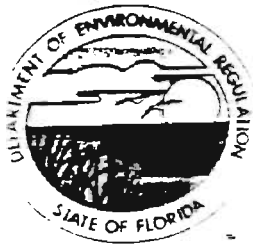
ZIP:_____

PHONE:_____

FEE #1 DATE PAID:___/___/___ AMOUNT PAID:NOFEE RECEIPT NUMBER:_____

B	DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE	- - -	___/___/___
C	DATE DER SENT DNR APPLICATION/SENT DNR INTENT	- - -	___/___/___
D	DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP.	- - -	___/___/___
E	DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	8/13/92 - 8/24/92
E	DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
F	DATE LAST 45 DAY LETTER WAS SENT	- - -	___/___/___
G	DATE FIELD REPORT WAS REQ--REC	- - -	___/___/___
H	DATE DNR REVIEW WAS COMPLETED	- - -	___/___/___
I	DATE APPLICATION WAS COMPLETE	- - -	8/24/92
J	DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS	- - -	___/___/___
K	DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT	- - -	___/___/___
L	DATE PUBLIC NOTICE WAS SENT TO APPLICANT	- - -	___/___/___
M	DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED	- - -	___/___/___
N	WAIVER DATE BEGIN--END (DAY 90)	- - -	___/___/___

COMMENTS:



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

August 13, 1992

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

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
Permit Renewal
A052-216420, A052-216421, A052-216422 &
A052-216423

Dear Mr. Pardue:

On July 16, 1992 the Department received applications to renew the operating permits for Gas Turbine Peaking Units 1 thru 4 at the Higgins Plant located on Booth Road, Oldsmar, Pinellas County. Pursuant to Rules 17-4.055(1), 17-4.070(2), F.A.C., the Department requests submittal of the following additional information:

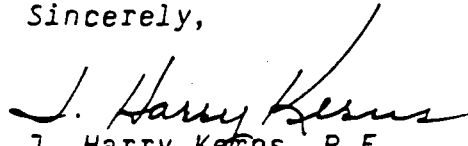
1. The renewal applications for Higgins Peaking Units 1 thru 4 were not submitted under the signature and seal of a professional engineer registered in the State of Florida. In accordance with Rule 17-4.050(3), All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except when the application is for renewal of an air pollution operation permit at a minor facility as defined in Rule 17-2.100(133), F.A.C., as amended and renumbered on 12-31-91. Enclosed is a memo from Mr. Clair Fancy, Bureau Chief of the Department's Bureau of Air Regulation, Tallahassee, stating that the Department should require the seal and signature of a professional engineer on air pollution applications for construction permits, operating permits, and renewals submitted by public utilities.

"NOTICE: Pursuant to the provisions of Section 120.600, F.S. and Rule 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration.

Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

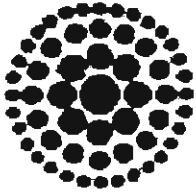
Please resubmit the renewal applications for Peaking Units 1 thru 4 at the Higgins Plant with the professional engineer certifications. Please note on the resubmitted applications "No Fee Required". Your applications to renew the operating permits are being held as incomplete until the professional engineer certified renewal applications are received. If you have any questions, please call George Richardson of my staff at (813)620-6100, extension 420.

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer
Southwest District

4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
(813)620-6100, ext. 419

cc: Pinellas County Department of Environmental Management

*[Handwritten signature]*

Florida
Power
CORPORATION

D.E.R.

JUL 16 1992

SOUTHWEST DISTRICT, TAMPA

July 14, 1992

Dr. Richard Garrity
Florida Department of Environmental Regulation
Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Dear Dr. Garrity:

Re: Renewal of Air Operating Permits For Higgins Plant Steam and Peaking Units
Permit Nos. AO52-137124, -137125, -137126, -137554, -137555, -137556, & -137557

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Air Quality Division, dated May 27, 1992, providing notification that the above-referenced permits are due to expire on September 16, 1992. The renewals requested include all permitted sources at the Higgins Plant site— three steam units and four peaking units.

Enclosed are permit renewal applications (three copies of each) for peaking units P1 through P4 and steam units 1 through 3. As reflected in the attached applications, FPC requests the following changes:

- o Correct the Unit 1 heat input rate. The value should be changed from 544 MMBTU/hr to 548 MMBTU/hr.
- o Correct the Unit 2 heat input rate. The value should be changed from 500 MMBTU/hr to 523 MMBTU/hr.
- o Correct the Unit 3 heat input rate. The value should be changed from 512 MMBTU/hr to 548 MMBTU/hr.
- o The Unit 2 annual test date should be changed from July 21, 1986 to May 5, 1992.

over

Dr. Garrity
July 14, 1992
Page 2

- o The Unit 3 annual test date should be changed from July 30, 1986 to May 7, 1992.

The corrected heat input rates are simply a product of the maximum allowable fuel usage rates (87 bbl/hr, 83 bbl/hr and 87 bbl/hr for units 1, 2 and 3, respectively) and the heating value of the fuel (150,000 BTU/gal or 6.3 MMBTU/bbl). FPC has not modified the units and is not requesting a change in the fuel feed rate; the intent is to correct an error in calculation. The reason for the change in the annual test dates is to allow a more even distribution of testing the units within our system. Since peaking units P1 through P4 are substantially similar, FPC requests that the peaking unit air permits be combined and issued as one. Similarly, FPC requests that the steam unit permits also be combined. Accordingly, two checks for \$2,000 each are enclosed to cover the respective processing fees.

If you should have any questions or require clarification of the above, please do not hesitate to contact me at (813) 866-5158.

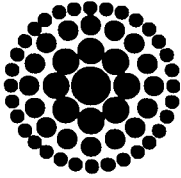
Sincerely,



Scott H. Osbourn
Sr. Environmental Engineer

Enclosure

cc: Gary Robbins, Pinellas County



**Florida
Power**
CORPORATION

D. E. R.

August 20, 1992

AUG 24 1992

Mr. J. Harry Kerns, P.E.
District Air Engineer
Southwest District
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, FL 33610-7347

SOUTHWEST DISTRICT
TAMPA

Dear Mr. Kerns:

Re: Florida Power Corporation/Higgins Peaking
Units 1 through 4 Permit Renewal Applications
Permit Nos. A052-216420 through A052-216423

On August 14, 1992 Florida Power Corporation (FPC) received your letter dated August 13, 1992 requesting that the above-referenced applications be re-submitted with a certification by a professional engineer registered in the state of Florida. Enclosed are the renewal applications with a separate sheet containing a certification by Albert W. Morneault, P.E. attached to each application form. In addition, as instructed in your August 13 letter, "No Fee Required" has been typed on each of the re-submitted applications.

Please contact me at (813)866-4344 if you have any questions.

Sincerely,

J. Michael Kennedy
Environmental Specialist

cc: Mr. Gary Robbins, Pinellas County w/attach.
Mr. Albert W. Morneault, P.E. w/attach.

TO: File
THRU: W.C. Thomas *WCT 10/2/87*
FROM: J.W. Estler *JWE 9/25/87*
DATE: September 24, 1987

SUBJECT: Pinellas County - AP
Florida Power Corporation
AO52-137554, 55, 56 and 57.

Attached are the operating permit renewals for Florida Power Corporation's Higgins Plants Peaking Units 1, 2, 3, and 4. These power plants are in compliance with the emission limitations contained in Chapter 17-2 based on the results of the latest stack test. The units are currently on cold standby.

PCDEM has provided us with their recommendation and draft permit on August 28, 1987. According to my telephone conversation with Gary Robbins on Sept. 14, 1987, the county will complete APIS for this facility.

Based on my review of the file and the comments from PCDEM, I recommend this permit be issued as conditioned.

JWE/dtw

PERMIT APPLICATION STATUS SHEET

58636

COMPANY: Florida Power Corp.

PROCESSOR: Estlin

PERMIT NO. A052-137554

DATE RECEIVED: 7/31/87

P.E. SEAL & SIGN: Y/N Y

CHECK: Y/N Y

Day 90

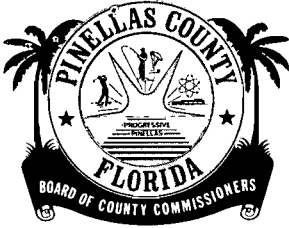
10/28/87

	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	<u>8/3/87</u>	<u>KLW</u>
LOGGING BY SEC'Y	<u>8/5/87</u>	<u>KLW</u>
Permitting Eng'r submit finished permit package & recommendations to supervisor.	_____	_____
Permit Package to Dist. Engr.	<u>9/25/87</u>	<u>AKC</u>
Permit Package to Dist. Mgr.	<u>10/2/87</u> <u>10/5/87</u>	<u>AKC</u> <u>AKC</u>
Permit Package Mailed out:	_____	_____

DATA FOLLOW-UP

Issue Date Updated on PATS: _____

Updated on WANG: _____



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

GEORGE GREER, CHAIRMAN
JOHN CHESNUT, JR. VICE-CHAIRMAN
CHARLES E. RAINEY
BARBARA SHEEN TODD
BRUCE TYNDALL

September 1, 1987

Mr. Jim Estler
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Fla. 33610-7347

RE: Florida Power Corporation, Permit# AO52-137554 (Replaces
Permit# AO52-58636); Higgins Gas Turbine Peaking Unit# 4

Mr. Estler:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S) and the permit files for the above mentioned facility. Since this peaking unit is in cold shut and is not expected to be used until 1991, there is no current compliance test. The renewal application is deemed complete. Fuel analysis for sulfur has been added as a permit condition. Sulfur content of the fuel is necessary for proper calculations for the AOR report, so this is not a additional burden for the source. Pinellas County recommends that an operating permit for the gas turbine peaking unit be issued. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer
Air Quality Division

GR/0315E

D. E. R.

SEP 04 1987

SOUTH WEST DISTRICT
TAMPA

APPLICANT:

Mr. J. A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg

PERMIT/CERTIFICATION

No. A052-137554
County: Pinellas
Project: Higgins Peaking
Unit# 4

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 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# 4 using natural gas or #2 Fuel Oil. Peaking Unit# 4 consists of two Pratt & Witney jet engines. Unit is rated at 42.9 MW/hour with a maximum heat input of 631 MMBTU/hour. Maximum fuel usage is $.63(10^6)$ ft³/hour for natural gas and 107 BBL/hour for #2 Fuel Oil.

Located at Shore Drive, Oldsmar, Pinellas County: Florida

UTM 17-336.54 E 3098.25 N

Replaces Permit No.: A052-58636 NEDS No.: 0012 Point ID: 07

Expiration Date: Five years from issue date

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137554
Project: Higgins Peaking Unit# 4

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations 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 subsection 403.087(6), and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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 acknowledgment 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, plant, or aquatic life or property and penalties, therefore, caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from department.
6. The permittee shall at all times 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 maybe required by law, access to the premises at reasonable times, where the permitted activity is located or conducted for the purposes of;
 - a. Having access to and copying any records that must be kept under the conditions of the permit:
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - (a) a description of and cause of non-compliance; and
 - (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111. Florida Statutes.
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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
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 Standards
14. The permittee shall comply with the following monitoring and record keeping requirements :
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137554
Project: Higgins Peaking Unit# 4

SPECIFIC CONDITIONS: Higgins Peaking Unit# 4, Permit# A052-137554:

1. Test the emissions for the following pollutant(s) within 30 days of start up and than at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

<input type="checkbox"/> Particulates	<input type="checkbox"/> Sulfur Oxides
<input type="checkbox"/> Fluorides	<input type="checkbox"/> Nitrogen Oxides
<input checked="" type="checkbox"/> Opacity*	<input type="checkbox"/> Hydrocarbons
	<input type="checkbox"/> Total Reduces Sulfur

* Visible emissions test must be conducted while unit is fired on #2 Fuel Oil

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610 (2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions# 1, and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

as contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within $\pm 10\%$ of the permitted rates as stated in Condition# 5 (Process Parameters). A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input:	631 MMBTU/hour
2. Fuel Consumption:	107 BBL/hour of #2 fuel oil 0.63(10 ⁶) ft ³ of natural gas
3. Stack Height:	53 feet
4. Peaker Make:	Two Pratt & Witney jet engines

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137554
Project: Higgins Peaking Unit# 4

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:

- a. BTU
- b. API Gravity
- c. Density
- d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

7. The Pinellas County Department of Environmental Management shall be notified in writing 10 days prior to compliance testing.

8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..

- A. Annual amount of materials and/or fuels utilized.
- B. Annual emissions (note calculation basis)
- C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

Issued this ____ day of _____
19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Richar D. Garrity, Ph.D.
District Manager

0028

APPLICATION TRACKING SYSTEM

08/03/87

APPL NO:137554

APPL RECVD:07/31/87 TYPE CODE:A0 SUBCODE:09

LAST UPDATE:08/03/87

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:___/___/___

DER PROCESSOR:RICHARDSON *ESVER*

APPL STATUS:AC DATE:07/31/87 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N DNR REVIEW REQD? LAT/LONG:28.00.08/82.39.49
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:___
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:___

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 4

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:___

PHONE:___

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:___

STREET:___

CITY:___

STATE:___

ZIP:___

PHONE:___

FEE #1 DATE PAID:07/31/87

AMOUNT PAID:00100

RECEIPT NUMBER:00113804

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. -- ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - ___/___/___
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - ___/___/___
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - ___/___/___
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - ___/___/___
N WAIVER DATE BEGIN--END (DAY 90) - - - ___/___/___

COMMENTS:

Sent to PCDEM 8/6/87 JMW
Copy to PCDEM 8/5/87

FACILITY SOURCE ID: 40PNL52001207

SOURCE INFORMATION RECORD

***** CONSTRUCTION PERMIT/PPS INFORMATION *****

PERMIT #: - PPS #: FEE PAID: (PERMIT ONLY)
DATE ISSUED: .. / .. / .. DATE EXPIRES: .. / .. / ..
APP COMPLETE: .. / .. / ..

***** OPERATION PERMIT INFORMATION *****

PERMIT #: A052 - -58636 FEE PAID: AOR REQUIRED: . (Y OR N)
DATE ISSUED: 10 / 22 / 82 DATE EXPIRES: 10 / 12 / 87

***** SOURCE DESCRIPTION/TRACKING INFORMATION *****

DESCRIPTION: >EAKING UNIT #P4 GAS TURBINE GENERATOR
STATUS: A = ACTIVE # OF SCC: 003 # OF POLLUTANT: 007 MAJOR SRC: Y (Y OR N)
INITIAL CONSTRUCTION DATE: .. / .. / .. TYPE: .. =
SIC: 4911 = ELECTRIC GENERATION/DISTRIBUTION
NSPS: ... NESHAP: ... 111D: ... PSD: ... NAA/NSR: ... RACT: ...
COMMENT: NOT OPERATING IN 1985
.....
START UP DATE: .. / .. / .. SHUT DOWN DATE: .. / .. / ..

SOURCE SCHEDULE/RATE RECORD

***** OPERATING SCHEDULE INFORMATION *****

TYPICAL OPERATING SCHEDULE: 02 (HR/DAY) 5 (DAY/WK) 52 (WK/YR).
TYPICAL % OPERATING BY SEASON: 25 (DJF) 25 (MAM) 25 (JJA) 25 (SON)
PERMITTED OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)
AOR YR: 86 OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)

***** OPERATING RATE INFORMATION *****

MAX PROCESS RATE: UNITS: OTHER
MAX PRODUCTION RATE: UNITS: OTHER

SOURCE EMISSION POINT RECORD

***** EMISSION POINT INFORMATION *****

EMISSION POINT TYPE: . =
STACK HEIGHT: 053 (FT) EXIT DIA: 15 . 1 (FT) EXIT TEMP: 0850 (F)
ACTUAL VOLUME FLOW RATE: 4000000 (ACFM) DRY STANDARD FLOW RATE: (DSCFM)
EXIT VEL: 0372 (FT/SEC) NONSTK EMIS HT: 0000 (FT) BLDG HT: WD: (FT)
POINT UTM: EAST: (KM) NORTH: (KM) GEP STK HT: ... (FT)
COMMENT:

***** CONTROL EQUIPMENT INFORMATION *****

CONTROL A:
CONTROL B:
CAPITAL COST: A \$ B \$ TOTAL OPER COST \$ AOR YR: 86

FACILITY SOURCE ID: 40PNL52001207

SOURCE SCC RECORD

SCC #: 2-01-002-01 = ENGINE ELE GEN NAT GAS TURBINE
UNITS: MCFB = MIL CUFT BURN MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 01026
ACTUAL AOR YR: 86 ANNUAL RATE: ***** %S: %ASH: MMBTU: 01026
COMMENTS:

SOURCE SCC RECORD

SCC #: 2-01-001-01 = ENGINE ELE GEN DIESEL TURBINE
UNITS: KGALB = 1000 GAL BR MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 00130
ACTUAL AOR YR: 86 ANNUAL RATE: %S: %ASH: MMBTU: 00130
COMMENTS:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****
POLLUTANT ID: VOC = NONMETHANE VOLATILE ORGANIC COMPOUNDS % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****
POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.....) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

FACILITY SOURCE ID: 40PNL52001207

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: SO2 = SULFUR DIOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00114 . 6200 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT: 000000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: PM = PARTICULATE MATTER % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00016 . 1500 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 000012 . 0000 (TON/YR)
ALLOWABLE EMISSION: (LB/HR)) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

SOURCE TEST RECORD

CURRENT TEST DATE: 00 / 00 / 73 NEXT TEST DATE: .. / .. / ..
TEAM NAME:
MAX PROCESS RATE: ACTUAL: UNITS:
MAX PRODUCTION RATE: ACTUAL: UNITS: OTHER
POLLUTANT ID: PM = PARTICULATE MATTER TEST PASS? . (Y OR N)
PERMIT ALLOWABLE EMIS: UNITS: ;
TEST ALLOW EMIS: TEST ACT EMIS: 00002 . 670000
UNITS: LB/HR
% TEST ACTUAL BELOW (-) OR ABOVE (+) TEST ALLOWABLE: SIGN: .
COMMENTS:
.
.

FACILITY SOURCE ID: 4DPNL52001207

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: NOX = NITROGEN OXIDES % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00222 . 3100 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT: 000000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: CO = CARBON MONOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: BNZ = BENZENE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: .
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (LB/HR)) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

12/16/82

DER AIR PERMIT INVENTORY SYSTEM
SOUTHWEST DISTRICT PINELLAS COUNTY

40/52/0012/07
PAGE 1

PLANT 0012 FLA POWER SHORE DR OLDSMAR 33557

UTILITY FILE STATUS SENT
POWER PLANT

SAINT PETERSBURG.
G C MOORE
BOX 14042 C 4
ST PETE

33733

FL.
AGCR=052 SIC=4911
LAT=28:20:30N LON=82:18:17W
UTM ZONE 17 336.5KM E. 3098.2KM N.

POINT 07 CONST PATS# OPER PATS# AOS2-58636
ISS= / / EXP= / / ISS=10/22/82 EXP=10/12/87
PEAKING UNIT #P4 GASTURBINE GENERATOR
SOURCE= IPP= ECAP=? COMM.PNTS. -
STACK HT= 53FT DIAM=15.4FT TEMP= 850F FLOW=4800000CFM PLUME= 0FT
BOILER CAP= 0MBTU/HR FUEL FOR SPACE HEAT= .0%
OPERATING PROCESS RATES YOR=78 RAW MATERIAL= 0 OTHER
PRODUCT 0 OTHER FUEL 77 OTHER
NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25%
PERMIT SCHEDULE 02HRS/DAY 5DAYS/WK 52WKS/YR
AOR FOR 03/15/82 02HRS/DAY 5DAYS/WK 52WKS/YR

COMPLIANCE NEDS=1 QRC=4 UPDATE09/82 SCHED. / UPDATED12/15/81
PERMIT=1 YOR=82 INSPECTED 09/29/82 NEXT DUE 09/29/83

SCC'S

2-01-001-01 YOR= SOURCE=C RATE= 924 MAX= 0.000
FUEL CONT SO2= .00% ASH= 0.0% 133MBTU FYOR= CONFID=2

2-01-002-01 YOR= SOURCE=C RATE= 661 MAX= 0.000
FUEL CONT SO2= .00% ASH= 0.0% 1026MBTU FYOR= CONFID=2

POLLUTANTS MONITORED

TSP 11101 NORM= 1.00 EST/METH= 16/2 MAX.ALW= 12 TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 00/00/73 TEST/FREQ=1
TESTED 00/00/73 AGENCY= REG= COMPLIANCE=

EMITTED= 2.67 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER

BNZ 11111 NORM= 0.00 EST/METH= 0/ MAX.ALW= 0 TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= . % NEXT DUE / / TEST/FREQ=

TESTED 00/00/75 AGENCY= REG= COMPLIANCE=

EMITTED= 0.00 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER

VE 11204 NORM= . EST/METH= / MAX.ALW= TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE // TEST/FREQ=1

TESTED 09/29/82 AGENCY=3 REG=610 COMPLIANCE=1

EMITTED= 600.10 ALLOWED= 600.20LBS/HR OP-RATE= 42 MBTU/B

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

FACILITY HIGGINS PLANT FLORIDA POWER CORPORATION		DISTRICT SOUTHWEST	COUNTY PINELLAS
ADDRESS BOOTH POINT, OLDSMAR, FL.		CONTACT MR. JERRY CAMPBELL, MANAGER	
APIS # 40TPA52001207	PERMIT # A052-58636	EXPIRATION DATE 10/12/87	
SOURCE DESCRIPTION GAS TURBINE PEAKING UNIT NO. 4			
INSPECTION DATE 8/13/85	AUDIT TYPE MAJOR 2 - MINOR	COMPLIANCE STATUS IN COMPLIANCE FOR EXTENDED COLD SHUTDOWN	
INSPECTION COMMENTS/RECOMMENDATIONS A052-58636 - GAS TURBINE PEAKING UNIT WITH MAXIMUM HEAT INPUT OF 566 MMBTU/HR THE PRATT & WHITNEY SET ENGINES OF THE PEAKER UNIT NO. 4 ARE CURRENTLY STORED IN CAPSULES FILLED WITH NITROGEN GAS DUE TO EXTENDED COLD SHUTDOWN THE TOTAL NUMBER OF HOURS OF OPERATION DURING THE LAST 12 MONTHS TO THE END OF JULY, 1985 WERE 1.9 HOURS			
INSPECTOR(S) NAME(S) RAMON SOLIS			
SIGNATURE(S) <i>Ramon Solis</i>		DATE 8/15/85	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1984 prior to March 1st of the following year.

I. GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Higgins Peaker #4)
2. Permit Number: A052-58636
3. Source Address: P.O. Box 3, Oldsmar, FL 33557
4. Description of Source: Gas Turbine

II. OPERATING SCHEDULE: 24 hrs/day 7 day/wk 52 wks/yr
Operated 2.6 hours in 1984

III. RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	tons/yr
<u>N/A</u>		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>

Product Output (tons/yr - cubic feet/yr) _____

IV. TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1% S).

<u>10⁶ Cu. Ft. Natural Gas</u>	<u>8.53</u>	<u>10³ gallons No. 2 Oil, 0.25 %S</u>
<u>10³ gallons Propane</u>		<u>10³ gallons Kerosene</u>
<u>tons Coal</u>		<u>10⁶ lb Black Liquor Solids</u>
<u>tons Carbonaceous</u>		<u>tons Refuse</u>
<u>Other (Specify type and units)</u>		

V. EMISSION LEVEL (tons/yr):

A. <u>0.021</u> Particulates	<u>Carbon Monoxide</u>
<u>0.289</u> Nitrogen Oxide	<u>Total Reduced Sulfur</u>
<u>Hydrocarbon</u>	<u>Fluoride</u>
<u>0.149</u> Sulfur Dioxide	
<u>Other (Specify type and units)</u>	

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.): Emission factors from AP-42.

VI. CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

J. A. Hancock
Signature of Owner or Authorized Representative

J. A. Hancock
Vice President, Fossil Operations

February 15, 1985



**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
Higgins Peaker #2 A052-58634
Higgins Peaker #3 A052-58635
Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

M J Keck / JAH

J. A. Hancock
Vice President, Fossil Operations

Hancock(M02)C3-1

JAH:ey

10/25/82

DER AIR PERMIT INVENTORY SYSTEM
SOUTHWEST DISTRICT PINELLAS COUNTY

40/52/0042/07
PAGE 1

PLANT 0042 FLA POWER SHORE DR OLDSMAR 33557

UTILITY FILE STATUS SENT
POWER PLANT

SAINT PETERSBURG
W P STEWART
BOX 44042 C 4
ST PETE

33733

FL.
AGCR=052 SIC=4944
LAT=28:20:30N LON=82:48:17W
UTM ZONE 17 336.5KM E. 3098.2KM N.

POINT 07 CONST PATS# OPER PATS# A052-58636
ISS= / / EXP= / / ISS=10/22/82 EXP=10/12/82
PEAKING UNIT WP4 GASTURBINE GENERATOR
SOURCE= IPP= FCAP=2 COMM.PNTS. -
STACK HT= 53FT DIAM=15.1FT TEMP= 85WF FLOW=4800000CFM PLUME= 0FT
ROTTER CAP= AMRTU/HR FUEL FOR SPACE HEAT= .0%
OPERATING PROCESS RATES YOR=78 RAW MATERIAL= 0 OTHER
PRODUCT 0 OTHER FUEL 77 OTHER
NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25%
PERMIT SCHEDULE 02HRS/DAY 5DAYS/WK 52WKS/YR
ADR FOR 03/15/82 02HRS/DAY 5DAYS/WK 52WKS/YR

COMPLIANCE NEDS=4 DRC=4 UPDATER9/82 SCHED. / UPDATED12/15/81
PERMIT=4 YOR=82 INSPECTED 09/29/82 NEXT DUE 09/29/83

SOC'S

2-04-004-04 YOR= SOURCE=C RATE= 924 MAX= 0.000
FUEL CONT SO2= .MAX ASH= 0.0% 433MRTU FYOR= CONFID=2

2-04-002-04 YOR= SOURCE=C RATE= 664 MAX= 0.000
FUEL CONT SO2= .MAX ASH= 0.0% 102MRTU FYOR= CONFID=2

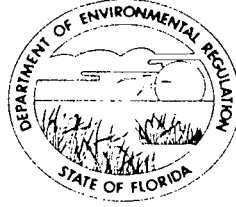
POLLUTANTS MONITORED

TSP 44404 NORM= 4.00 EST/METH= 16/2 MAX.ALU= 12 TNS/YR.
CTLS.PRT= 0 SFC= 0 EFF= 0.0% NFXT DUE 00/00/73 TEST/FREQ=1
TESTED 00/00/73 AGENCY= REG= COMPLIANCE=
EMITTED= 2.67 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER
BN7 44444 NORM= 0.00 EST/METH= 0/ MAX.ALU= 0 TNS/YR.
CTLS.PRT= 0 SFC= 0 EFF= .% NFXT DUE / / TEST/FREQ=
TESTED 00/00/75 AGENCY= REG= COMPLIANCE=
EMITTED= 0.00 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER
UF 44204 NORM= EST/METH= / MAX.ALU= TNS/YR.
CTLS.PRT= 0 SFC= 0 EFF= 0.0% NFXT DUE // TEST/FREQ=1
TESTED 09/29/82 AGENCY=3 REG=640 COMPLIANCE=1
EMITTED= 600.40 ALLOWED= 600.20LBS/HR OP-RATE= 42 MRTU/B

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

June 16, 1983

Mr. D. A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Re: Pinellas County - AP
Florida Power Corporation - Higgins Peaking Unit 4
A052-58636

Dear Mr. Shantz:

We are in receipt of your April 6, 1983 request to modify the conditions of the above referenced permit. Specific Condition Number 1 is hereby deleted and replaced by the following Specific Condition:

1. This unit shall be tested for visible emissions at intervals of 12 months from the date of September 29, 1982 if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. A copy of the test results should be submitted to the Department's Southwest District Office and the Pinellas County Department of Environmental Management within 45 days of testing.

This letter must be attached to your permit and becomes part of that permit.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

JE/scm

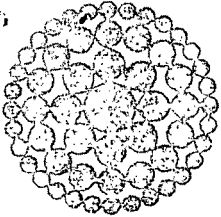
cc: PCDEM

Air

Does Pinellas
County agree

EW

ES/lor
WCA



**Florida
Power**
CORPORATION

April 6, 1983

Mr. Dan A. Williams, P.E.
District Engineer
Dept. of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610-9544

Subject: Higgins Peakers - A052-58633, 58634, 58635, 58636
Bartow Peakers - A052-22551, 22553, 22554, 22555
Bayboro Peakers - A052-22556, 22557, 22558, 22559

Dear Mr. Williams:

Florida Power agrees with the proposal, included in your letter of January 21, 1983, that an annual compliance test for visible emissions be required only if a unit operates more than 5 days (120 hours) on fuel oil per year. We request that the operating permits for our 12 peaking units be modified to include this condition.

Should you have any questions concerning this matter, please advise.

Sincerely,

D. A. Shantz, Supervisor
Environmental Services

Shantz(W03)C4a-2

cc: T. L. Brouette
R. E. Parnelle
Readers

*copy to PCDEM
4-15-83*

D.E.R.

APR 18 1983

SOUTHWEST DISTRICT
TAMPA

**BEST AVAILABLE COPY
ROUTING AND TRANSMITTAL SLIP**

ACTION NO.

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Peter Hessling

INITIAL

DATE

2.

INITIAL

DATE

3.

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

*Please let us know
your comments on the
attached*

INFORMATION

REVIEW & RETURN

REVIEW & PRE

INITIAL & FORWARD

DISPOSITION

REVIEW & RESPOND

PREPARE RESPONSE

FOR MY SIGNATURE

FOR YOUR SIGNATURE

LET'S DISCUSS

SET UP MEETING

INVESTIGATE & REPT

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

Tim Estler

DATE

4-15-83

PHONE

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

January 21, 1983

Mr. Dennis A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
A052-58633, 58634, 58635, 58636

Dear Mr. Shantz:

In response to your November 24, 1982 letter requesting relief from the annual visible emission testing requirements for Peaking Units 1 thru 4 at the Higgins Plant, the Department offers the following comments:

1. We agree with you that all four units have operated for only a brief period during the first nine months of 1982 and that bringing the units on line just to conduct a compliance test could be considered unreasonable due to the expense involved.
2. The Department proposes that:
 - a. An annual compliance test be required only if a unit operates more than 5 days (120 hours) on fuel oil per year.
 - b. Test be conducted while burning fuel oil.
 - c. Florida Power tries to coordinate testing with PCDEM when possible.

Please advise if Florida Power agrees with our proposal or if further discussion is needed.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

DAW/llg
cc: PCDEM

Mr. W. K. Hennessey
November 24, 1982
Page 2

Should you have any questions concerning this matter, please advise.

Very truly yours,



Dennis A. Shantz, Supervisor
Environmental Services

Shantz(T05)C1-2

cc: R. E. Parnelle
J. Alberdi
F. Denby
T. L. Brouette
Reader's File

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000058636 COE# DER PROCESSOR:RICHARDSON DER OFFICE:TPA
 FILE NAME:FLORIDA POWER CORP DATE FIRST REC: 07/29/82 APPLICATION TYPE:AD
 APPL NAME:FLORIDA POWER CORP APPL PHONE:(813)866-5151 PROJECT COUNTY:52
 ADDR:P O BOX 14042 CITY:ST PETERSBURG ST:FLZIP:33733
 AGNT NAME: AGNT PHONE:() -
 ADDR: CITY: ST: ZIP:

ADDITIONAL INFO REQ: / / / / / / REC: / / / / / /
 APPL COMPLETE DATE: 07/29/82 COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
 LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
 HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
 HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 10/22/82 15:40:29

FEE PD DATE#1:07/29/82 \$0100 RECEIPT#00063823 REFUND DATE: / / REFUND \$
 FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$

APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE:10/22/82

REMARKS:RENEWAL OF A052-5705
 HIGGINS #4 PEAKING UNIT

COMPANY NAME

Francis Power Corp

Processor

Comp

File Number

A052-58636

PERMIT APPLICATION STATUS SHEET

Type of permit applied for

OPERATION

County

PINELLAS

Date Recieved

2-29-82

P.E. seal & signature

Check

No check

Letter of corp. standing

CLOCK
DAYS

DATE TASK COMPLETED

INITIALS

3

Logging by Sec'y

8-2-82

Comp

5

Review by Sec. head and transfer to permitting Engineer

28

Completeness Review

request additional info *

information received *

Public Notice Published *
(for Air Construction only)

55

Letter of Intent sent to * Supervisor

60

Letter of Intent submitted * to District Manager

75

Intent to issue/deny mailed *

80

Permitting Eng'r submit finished permit package & recommendations to supervisor

83

Permit Package to Dist. Engr.

85

Permit Package to Dist. Manager

10-22-82

SW

90

Final Issuance/denial

*If needed, If not indicate by N/A

copy to ACDEM 8-2-82

TO: The File
THROUGH: Bill Thomas *[Signature]*
FROM: George Richardson *[Signature]*
DATE: October 21, 1982
SUBJECT: Florida Power Corporation
A052-58636

This permit is for the operation of the Higgins Peaking Unit #4 located at Booth Road, Oldsmar, Pinellas County.

This is one of four units that is used during peak load demand. The main fuel is natural gas with No. 2 oil as standby.

This source is in compliance. PCDEM and I recommend this permit be issued.

GWR/scm

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION
HIGGINS PLANT - PEAKER UNITS
PINELLAS COUNTY
NEDS NUMBERS: 052-0012-04, 05, 06 and 07
PERMIT NUMBERS: A052-58633, 58634, 58635 and ~~58636~~
DATES OF INSPECTION: SEPTEMBER 29 and 30, 1982

The Higgins Combustion Turbine Plant is located in Booth Point, Oldsmar, Florida.

Plant contact person was Mr. Thomas M. Pryslak, Senior Engineer and Plant Superintendent. Mr. Kenneth E. Roy, Mr. Philip M. Watkins and Mr. Stephen Stanbrough performed visible emissions tests. Ramon Solis of Pinellas County Division of Air Quality, D.E.M., performed the inspection.

The peaker units were last inspected on September 8, 1982, but since they were not in operation during the inspection, it was not possible to test them for visible emissions at the time.

Purpose of the inspection of September 29 and 30, 1982 was to perform visible emissions tests on the four peaker units to ascertain their status of compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

The jet engines are normally started with natural gas and then a gradual change is made to fuel oil No. 2. Average fuel consumption for both engines in each one of the peaking units is 96 barrels per hour. Maximum heat input is 566 million BTU/hr.

The old permits to operate these sources, numbers A052-5702, A052-5703, A052-5704 and A052-5705 expired in September 21, 1982. The application for renewal of the permits to operate were received at the DER Southwest District Office on July 29, 1982.

Visible emission tests were performed for all the peaker units. The production rate (output) was 34 MW in unit 1, 25.5 MW in unit 2, 35 MW in unit 3 and 34 MW in unit 4.

Average opacity during the worst six minutes of operation was 10% for unit 1, 14% for unit 2, 8% for unit 3 and 12% for unit 4.

The Higgins Combustion Turbine Plant is considered to be in compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/jh

SOURCE NAME FLORIDA POWER CORP
 HIGGINS PLANT PEAKER UNIT NO. 1
 ADDRESS BOOTH POINT
 OLDSMAR

SOURCE ID NUMBER A052 58633
 OBSERVATION DATE 9/30/82
 OBSERVER'S NAME (PRINT) RAMON SOLIS
 ORGANIZATION PINELLAS COUNTY DIVISION OF AIR QUALITY

STATE FLORIDA ZIP PHONE 855-1485

CERTIFIED BY ETA / DEC



DATE 9/14/82

PROCESS PEAKER UNIT NO. 1 OPERATING MODE
 HIGGINS PLANT (GAS TURBINE) FULL LOAD
 CONTROL EQUIPMENT - NONE OPERATING MODE

START TIME 2:15 STOP TIME 2:45
 0 15 30 45 0 15 30

DESCRIBE EMISSION POINT RECTANGULAR SMOKESTACK
 EMISSION POINT HEIGHT ABOVE GROUND LEVEL 53'
 EMISSION POINT HEIGHT RELATIVE TO OBSERVER 53'
 DISTANCE TO EMISSION POINT 200'
 DIRECTION TO EMISSION POINT 320°

	1	10	10	10	10	31			
3	10	10	10	10	10	33			
4	10	10	10	10	10	34			
5	10	10	10	10	10	35			
6	10	10	10	10	10	36			
7	10	10	10	10	10	37			
8	10	10	10	10	10	38			
9	10	10	10	10	10	39			
10	10	10	10	10	10	40			
11	10	10	10	10	10	41			
12	10	10	10	10	10	42			
13	10	10	10	10	10	43			
14	10	10	10	10	10	44			
15	10	10	10	10	10	45			
16	10	10	10	10	10	46			
17	10	10	10	10	10	47			
18	10	10	10	10	10	48			
19	10	10	10	10	10	49			
20	10	10	10	10	10	50			
21	10	10	10	10	10	51			
22	10	10	10	10	10	52			
23	10	10	10	10	10	53			
24	10	10	10	10	10	54			
25	10	10	10	10	10	55			
26	10	10	10	10	10	56			
27	10	10	10	10	10	57			
28	10	10	10	10	10	58			
29	10	10	10	10	10	59			
30	10	10	10	10	10	60			

DESCRIBE EMISSIONS SMOKE EXHAUST

COLOR OF EMISSIONS BLACK
 CONTINUOUS FUGITIVE
 INTERMITTENT

WATER VAPOR PRESENT YES
 IF YES, IS PLUME ATTACHED N/A DETACHED

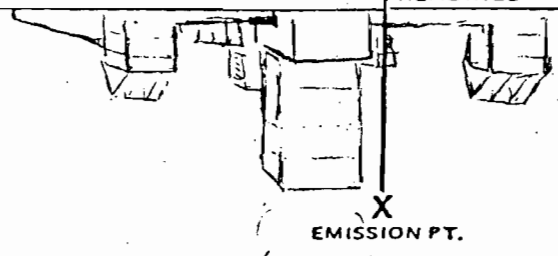
AT WHAT POINT WAS OPACITY DETERMINED
 10' ABOVE STACK EXHAUST

DESCRIBE BACKGROUND SKY
 COLOR OF BACKGROUND BLUE / WHITE
 SKY CONDITIONS 30% cc
 WIND SPEED 15 MPH WIND DIRECTION NE
 AMBIENT TEMPERATURE 80°F RELATIVE HUMIDITY 75%

AVERAGE OPACITY WORST 6 MIN 10%
 NUMBER OF READINGS ABOVE 20 % WERE 0

RANGE OF OPACITY READINGS FROM 10% TO 10%

SOURCE LAYOUT SKETCH



DRAW NORTH ARROW



OBSERVER'S SIGNATURE Ramon Solis DATE 9/30/82

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
 SIGNATURE TITLE DATE

SOURCE NAME **FLORIDA POWER CO. HIGGINS PLANT PEAKER No. 2**
 ADDRESS **BOOTH POINT OLDSMAR**
 STATE **FLORIDA** ZIP **32062** PHONE **855-1485**

SOURCE ID NUMBER **A052-58634** OBSERVATION DATE **9/29/82**
 OBSERVER'S NAME (PRINT) **RAMON SOLIS**
 ORGANIZATION **PINELLAS COUNTY DIVISION OF AIR QUALITY**
 CERTIFIED BY **ETA/DER**

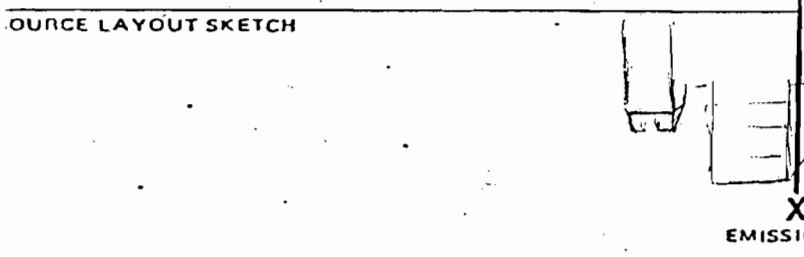


No. 2 DATE **9/19/82**

PROCESS POWER GENERATION **JET ENGINE TURBINES** OPERATING MODE **FULL LOAD**
 CONTROL EQUIPMENT **NONE** OPERATING MODE
 DESCRIBE EMISSION POINT **RECTANGULAR SMOKE STACK**
 EMISSION POINT HEIGHT ABOVE GROUND LEVEL **53'** EMISSION POINT HEIGHT RELATIVE TO OBSERVER **53'**
 DISTANCE TO EMISSION POINT **200'** DIRECTION TO EMISSION POINT **N-NW**
 DESCRIBE EMISSIONS **SMOKE EXHAUST**
 COLOR OF EMISSIONS **BLACK** CONTINUOUS FUGITIVE
 INTERMITTENT
 WATER VAPOR PRESENT **NO** YES IF YES, IS PLUME ATTACHED **N/A** DETACHED
 AT WHAT POINT WAS OPACITY DETERMINED **10' ABOVE STACK**
 DESCRIBE BACKGROUND **SKY**
 COLOR OF BACKGROUND **BLUE/WHITE** SKY CONDITIONS **40% CC**
 WIND SPEED **10 MPH** WIND DIRECTION **NE**
 AMBIENT TEMPERATURE **85° F** RELATIVE HUMIDITY **80%**
 COMMENTS

START TIME 2:27					STOP TIME 2:57				
	0	15	30	45	0	15	30		
1	5	10	10	10	31				
2	10	10	10	10	32				
3	10	10	10	10	33				
4	10	10	10	10	34				
5	10	10	10	10	35				
6	10	10	10	10	36				
7	10	10	10	10	37				
8	10	10	10	10	38				
9	10	10	10	10	39				
10	10	10	15	15	40				
11	15	15	15	15	41				
12	15	15	15	15	42				
13	15	15	15	15	43				
14	15	15	15	15	44				
15	15	15	15	15	45				
16	15	10	10	10	46				
17	10	10	10	10	47				
18	10	10	10	10	48				
19	10	10	10	10	49				
20	10	10	10	10	50				
21	10	10	10	10	51				
22	10	10	10	10	52				
23	10	10	10	10	53				
24	5	5	5	5	54				
25	5	5	5	5	55				
26	5	5	5	5	56				
27	5	5	5	5	57				
28	5	5	5	5	58				
29	5	5	5	5	59				
30	5	5	5	5	60				

AVERAGE OPACITY WORST 6 MIN **14%** NUMBER OF READINGS ABOVE **20** % WERE **0**
 RANGE OF OPACITY READINGS FROM **5** TO **15**



325-2
 02-8
 52-1
 OBSERVER'S SIGNATURE **Ramon Solis** DATE **9/29/82**
 CERTIFIED BY

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
 SIGNATURE _____ TITLE _____ DATE _____

SOURCE NAME **FLORIDA POWER CORPORATION
HIGGINS PLANT PEAKER NO. 3**
 ADDRESS **BOOTH POINT
OLDSMAR**
 STATE **FLORIDA** ZIP **32709** PHONE **855-1485**

SOURCE ID NUMBER **A 32-58635** OBSERVATION DATE **9/29/82**
 OBSERVER'S NAME (PRINT) **RAMON SOLIS**
 ORGANIZATION **PINELLAS COUNTY DIVISION OF AIR QUALITY**
 CERTIFIED BY **ETA/DER**

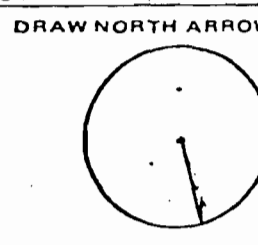
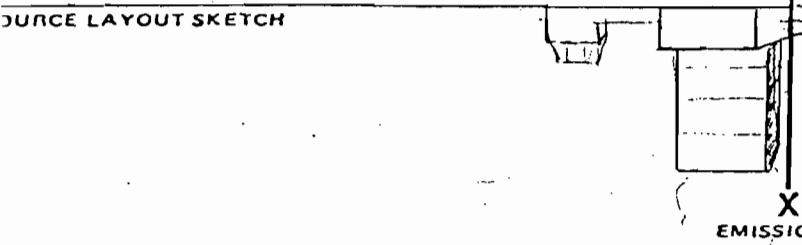


No. 3 DATE **9/14/82**

PROCESS POWER GENERATION **JET ENGINE TURBINES** OPERATING MODE **FULL LOAD**
 CONTROL EQUIPMENT **NONE** OPERATING MODE
 DESCRIBE EMISSION POINT **RECTANGULAR SMOKESTACK**
 EMISSION POINT HEIGHT ABOVE GROUND LEVEL **53'** EMISSION POINT HEIGHT RELATIVE TO OBSERVER **53'**
 DISTANCE TO EMISSION POINT **200'** DIRECTION TO EMISSION POINT **N-NE**
 DESCRIBE EMISSIONS **SMOKE EXHAUST**
 COLOR OF EMISSIONS **BLACK** CONTINUOUS FUGITIVE
 INTERMITTENT
 WATER VAPOR PRESENT YES NO IF YES, IS PLUME ATTACHED DETACHED
 N/A
 AT WHAT POINT WAS OPACITY DETERMINED **10' ABOVE SMOKESTACK**
 DESCRIBE BACKGROUND **SKY**
 COLOR OF BACKGROUND **BLUE/WHITE** SKY CONDITIONS **40% CC**
 WIND SPEED **10 MPH** WIND DIRECTION **NE**
 AMBIENT TEMPERATURE **85°F** RELATIVE HUMIDITY **80%**

	START TIME 2:01				STOP TIME 2:31			
	0	15	30	45	0	15	30	45
1	10	10	10	10				
2	10	10	10	10				
3	10	10	10	10				
4	5	10	10	10				
5	10	10	5	5				
6	5	5	5	5				
7	5	5	5	5				
8	5	5	5	5				
9	10	10	10	10				
10	10	10	10	10				
11	10	10	5	5				
12	5	10	10	10				
13	10	10	10	5				
14	5	5	5	5				
15	10	10	10	10				
16	10	10	10	10				
17	5	5	10	10				
18	10	10	10	10				
19	10	10	10	10				
20	5	5	5	5				
21	5	5	5	5				
22	5	5	5	5				
23	5	5	5	5				
24	5	5	5	5				
25	5	5	5	5				
26	5	5	5	5				
27	5	5	5	5				
28	5	5	5	5				
29	10	10	10	10				
30	10	10	10	10				

AVERAGE OPACITY WORST 6 MIN **8%** NUMBER OF READINGS ABOVE **20** % WERE **0**
 RANGE OF OPACITY READINGS FROM **5** TO **10%**



SERVER'S SIGNATURE **Ramon Solis** DATE **9/29/82**
 CERTIFIED BY

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
 SIGNATURE _____ TITLE _____ DATE ____/____/____

EPA FORM 161 BEST AVAILABLE COPY VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME FLORIDA POWER CORPORATION
HIGGINS PLANT, PEAKER NO. 4

SOURCE ID NUMBER 052-58636

OBSERVATION DATE 9/29/82

ADDRESS BOOTH POINT
OLDSMAR

OBSERVER'S NAME (PRINT) RAMON SOLIS

STATE FLORIDA ZIP PHONE 855-1485

ORGANIZATION PINELLAS COUNTY DIVISION OF AIR QUALITY

CERTIFIED BY ETS/DER



No. 4 DATE 9/14/82

PROCESS POWER GENERATION OPERATING MODE
JET ENGINE TURBINES FULL LOAD
CONTROL EQUIPMENT OPERATING MODE
NONE

START TIME 2:01 STOP TIME 2:26

DESCRIBE EMISSION POINT
RECTANGULAR SMOKESTACK
EMISSION POINT HEIGHT ABOVE GROUND LEVEL 53'
EMISSION POINT HEIGHT RELATIVE TO OBSERVER 53'

	0	15	30	45		0	15	30	
1	10	10	10	10	31				
2	10	10	10	10	32				
3	10	10	10	10	33				
4	10	10	10	10	34				
5	10	10	10	10	35				
6	10	10	10	10	36				
7	10	10	10	10	37				
8	10	10	10	10	38				
9	10	10	10	10	39				
10	10	10	10	10	40				
11	10	10	10	10	41				
12	10	10	10	10	42				
13	10	10	10	10	43				
14	10	10	10	10	44				
15	10	10	10	10	45				
16	10	10	10	10	46				
17	10	10	10	10	47				
18	10	10	10	10	48				
19	10	10	10	10	49				
20	10	10	10	10	50				
21	15	15	15	15	51				
22	15	15	15	15	52				
23	15	10	10	10	53				
24	10	10	10	10	54				
25	10	10	10	10	55				
26					56				
27					57				
28					58				
29					59				
30					60				

DISTANCE TO EMISSION POINT 200'
DIRECTION TO EMISSION POINT N-NE

DESCRIBE EMISSIONS SMOKE EXHAUST

COLOR OF EMISSIONS BLACK
CONTINUOUS FUGITIVE
INTERMITTENT

WATER VAPOR PRESENT YES
IF YES, IS PLUME ATTACHED N/A DETACHED

AT WHAT POINT WAS OPACITY DETERMINED
10 FT ABOVE STACK

DESCRIBE BACKGROUND SKY
COLOR OF BACKGROUND BLUE/WHITE
SKY CONDITIONS 30% CC-40%

WIND SPEED 10 WIND DIRECTION NE

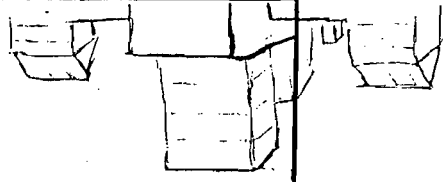
AMBIENT TEMPERATURE 85° RELATIVE HUMIDITY 80%

COMMENTS

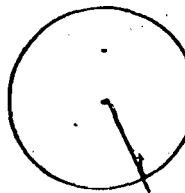
AVERAGE OPACITY WORST 6 MIN 12%
NUMBER OF READINGS ABOVE 20 % WERE 0

RANGE OF OPACITY READINGS FROM 10 TO 15%

SOURCE LAYOUT SKETCH



DRAW NORTH ARROW



OBSERVER'S SIGNATURE Ramon Solis

DATE 9/29/82

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
SIGNATURE TITLE DATE

DER

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION
HIGGINS PLANT - PEAKER UNITS
PINELLAS COUNTY

NEDS NUMBERS: 052-0012-04, 05, 06 and 07
PERMIT NUMBERS: A052-58633, 58634, 58635 and 58636
DATE OF INSPECTION: SEPTEMBER 8, 1982

The Higgins Combustion Turbine Plant is located in Booth Point, Oldsmar, Florida.

Plant contact person was Mr. Thomas M. Pryslak, Senior Engineer and Plant Superintendent. Ramon Solis of Pinellas County Division of Air Quality performed the inspection.

The existing 4 peaking units were constructed with 1960 technology. Each unit consists of two Pratt & Whitney jet engines which drive another turbine inside an expander chamber, by means of their exhaust gas thrust. A transmission shaft connects the turbine in the expander chamber with an electrical generator. The peaking units operate as an emergency back-up plant for the Florida Power Production Department. The Higgins peaking plant is the only one with dual capability to burn either natural gas or fuel oil No. 2. Currently, the cost of operating with natural gas is \$3.50/million BTU, whereas it costs \$7.00/million BTU to operate with oil No. 2. The Babcock & Wilcox steam boilers in the main plant operate at a cost of \$5.80/million BTU. However, the peakers operate most of the time on fuel oil No. 2 due to fuel availability, especially during the winter season. Enclosed is a table of the number of hours of operation and the fuel usage by the Higgins peaking units from 1977 to 1981.

NUMBER OF HOURS AND FUEL USAGE
HIGGINS PEAKING TURBINE GENERATORS

Year	Unit No. 1			Unit No. 2			Unit No. 3			Unit No. 4		
	Hours	Oil	Gas	Hours	Oil	Gas	Hours	Oil	Gas	Hours	Oil	Gas
1977	272	219	82	280	641	35	326	147	131	307	558	80
1979	221	428	31	229	341	28	280	628	42	287	665	42
1980	483	763	89	401	510	72	357	649	58	332	711	61
1981	34	73	0.1	191	345	21	143	320	24	149	364	16

Oil units are 10³ gal.
Gas units are 10⁶ cu. ft.

The last time the peakers were in operation, was in June 1982, when the Crystal River Nuclear Plant was down.

Compliance Verification Inspection
Florida Power Corporation
Higgins Plant - Peaker Units
Date of Inspection: September 8, 1982
Page -2-

At the time of the inspection, the peakers were not in operation and therefore no visible emissions tests were performed. Mr. Pryslak will report back at the first opportunity to test the units.

Pending performance of the above mentioned tests, the Higgins Peaking Units Plant is considered to be in unknown status of compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/jh

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

DER.

FEB 18 1982

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

SOUTHWEST DISTRICT
TAMPA

For each permitted emission point, please submit a separate report for calendar year 1981 prior to March 1st of the following year.

I. GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Higgins Peaker #4)
2. Permit Number: A052-5705
3. Source Address: P.O. Box 3, Oldsmar, FL 33557
4. Description of Source: Gas Turbine

II. OPERATING SCHEDULE: 24 hrs/day 7 day/wk 52 wks/yr
Operated 148.8 hours in 1981

III. RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	tons/yr
<u>N/A</u>		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>
		<u>tons/yr</u>

Product Output (tons/yr - cubic feet/yr) _____

IV. TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1% S).

<u>15.938</u> 10^6 Cu. Ft. Natural Gas	<u>363.59</u> 10^3 gallons No. 2 Oil, <u>0.26</u> % S
<u> </u> 10^3 gallons Propane	<u> </u> 10^3 gallons Kerosene
<u> </u> tons Coal	<u> </u> 10^6 lb Black Liquor Solids
<u> </u> tons Carbonaceous	<u> </u> tons Refuse
Other (Specify type and units) _____	

V. EMISSION LEVEL (tons/yr):

A. <u>1.02</u> Particulates	<u> </u> Carbon Monoxide
<u>15.62</u> Nitrogen Oxide	<u> </u> Total Reduced Sulfur
<u> </u> Hydrocarbon	<u> </u> Flouride
<u>6.62</u> Sulfur Dioxide	
Other (Specify type and units) _____	

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.): Emission factors from AP-42.

VI. CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

G. C. Moore
Signature of Owner or Authorized Representative

G. C. Moore
Vice President, Power Production

HIGGINS

OBSERVATION RECORD

P-4

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		COMMENTS
		0	15	30	45	Attached	Detached	
1400	0	10	10	10	10			
	1	10	10	10	10			
	2	10	10	10	10			
	3	10	10	10	10			
1405	4	10	10	10	10			
1405	5	10	10	10	10			
	6	10	10	10	10			
	7	10	10	10	10			
	8	10	10	10	10			
	9	10	10	10	10			
1410	10	10	10	10	10			
	11	10	10	10	10			
	12	10	10	10	10			
	13	10	10	10	10			
	14	10	10	10	10			
1415	15	10	10	10	10			
	16	10	10	10	10			
	17	10	10	10	10			
	18	10	10	10	10			
	19	10	10	10	10			
1420	20	10	10	10	10			
	21	10	10	10	10			
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	24	10	10	10	10			
	25	10	10	10	10			
	26	10	10	10	10			
	27	10	10	10	10			
	28	10	10	10	10			
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

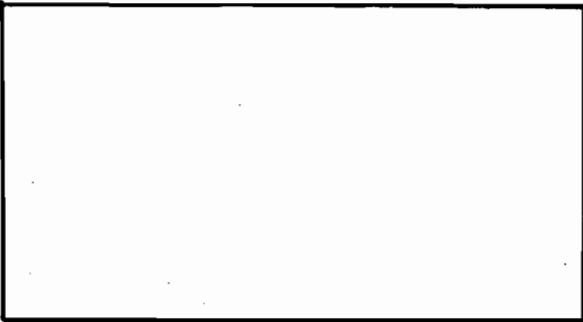
THIS IS TO CERTIFY THAT
Philip M. Watkins, has completed
the STATE OF FLORIDA visible emissions evaluation training
and is a qualified observer of visible emissions as specified by
EPA reference method 9.
This certificate expires on *Oct. 15, 1982*

Judi Sears Certification Officer
DER Form PERM 5-9 (Jun 79)

Philip M. Watkins
Bearer's Signature

RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION HIGGINS P-4
 PERMIT NUMBER A052-5705
 DATE 9-29-82
 TYPE FACILITY Combustion Turbine
 CONTROL DEVICE NONE



HOURS OF OBSERVATION 1400-1429
 OBSERVER Philip M. Watkins
 OBSERVER CERTIFICATION DATE 3-17-82
 POINT OF EMISSIONS Stack
 HEIGHT OF DISCHARGE POINT 40ft.

CLOCK TIME

OBSERVER LOCATION
 Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS
 Wind Direction

Wind Speed

Ambient Temperature

SKY CONDITIONS (clear,
 overcast, % clouds, etc.)

PLUME DESCRIPTION
 Color

Distance Visible

Other Information

	Initial 1400			Final 1429
Distance to Discharge	200 ft			
Direction from Discharge	S			
Height of Observation Point	Ground			
BACKGROUND DESCRIPTION	Blue Sky			
WEATHER CONDITIONS Wind Direction	NE			
Wind Speed	10-12			
Ambient Temperature	85°F			
SKY CONDITIONS (clear, overcast, % clouds, etc.)	30% clouds			
PLUME DESCRIPTION Color	black			
Distance Visible	1/4 mi			
Other Information				

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start--End	Opacity	
		Sum	Average
	1400-1429		10

Readings ranged from 10 to 10 % opacity.

The source was/~~was not~~ in compliance with 10 at the time evaluation was made.

NOTES:

1. Minimum of 24 readings to be taken at 15 second intervals.

2. Readings are to be to the nearest 5% opacity.

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1977 prior to March 1st of the following year

I GENERAL INFORMATION:

1. Source Name: Florida Power Corporation (Higgins Peaker #4)

2. Permit Number: A052-5705

3. Source Address: Oldsmar, Fla. MAR 7 1978

4. Description of Source: Jet Peaking Unit SOUTHWEST DISTRICT
TAMPA

Operated 307.5 hrs. in 1977

PER

II OPERATING SCHEDULE: _____ hrs/day _____ days/wk _____ wks/yr

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
N/A		tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1% S).

80.28 10^6 cubic feet Natural Gas 558.05 10^3 gallons No. 2 Oil 0.2 % S

_____ 10^3 gallons Propane _____ 10^3 gallons Kerosene

_____ tons Coal _____ 10^6 lb Black Liquor Solids

_____ tons Carbonaceous _____ tons Refuse

Other (Specify type and units) _____

V EMISSION LEVEL (tons/yr):

A. 3.52 Particulates _____ Carbon Monoxide

25.12 Nitrogen Oxide _____ Total Reduced Sulfur

_____ Hydrocarbon _____ Fluoride

8.53 Sulfur Dioxide _____

Other (Specify type and units) _____

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.)
Test data from similar unit

VI CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

W.P. Stewart

Signature of Owner or Authorized Representative:
W. P. Stewart, Director, Power Production

Typed Name and Title

March 3, 1978

Date

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee	
To: _____	Loctn.: _____
To: _____	Loctn.: _____
To: _____	Loctn.: _____
From: _____	Date: _____

TO: File

THRU: Dan A. Williams

FROM: William H. Brown *WB*

RE: Florida Power Corporation, Higgins

Unit #1 is a 42 MW, 488×10^6 BTU steam generator, in 1977 it operated 5503.4 hours using 382.1×10^6 cu. ft. natural gas and 8940×10^3 gal. of #6 fuel oil with 2.3% sulfur or a discharge of 1676 tons SO_2 /yr. and 61 T/yr. TSP.

✓ Unit #2 is a 45 MW 511×10^6 BTU steam generator. In 1977 it operated 6620.3 hours burning 362.8×10^6 cu. ft. of natural gas 13321×10^3 gal. #6 fuel oil, 1.9×10^6 gal #2 fuel oil the emissions were 69 T/yr. TSP, 408.5 T/yr. NO_x , and 2500 T/yr. TSP.

Unit #3 is a 45 MW 512×10^6 BTU steam generator. In 1977 it operated 5089.8 hours burning 13582.3×10^3 gal. #6 fuel oil 1.34×10^6 gal. #2 oil with an emission of 85.6 T/yr. TSP, 425 T/yr. NO_x and 2547 T/yr. SO_2 .

This facility has four peaking deisel turbines. The total installation emits 221.6 T/yr. TSP, 1309.6 T/yr. NO_x , 6747 T/yr. SO_2 .

This operation on Recon had less than 20% opacity and seemed to be in compliance.

D. L. R.

OBSERVATION RECORD

AUG 23 1911

SOUTH WEST DISTRICT
ST. PETERSBURG

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		COMMENTS
		0	15	30	45	Attached	Detached	
	0	0	0	0	0			
	1	0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	4	0	0	0	0			
	5	0	0	0	0			
	6							
	7							
	8							
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



Dennis A. Shantz

has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on Oct. 13, 1977.

[Signature]
Certification Officer

[Signature]
Bearer's Signature

TY

LOCATION HIGGINS P-4
PERMIT NUMBER ACS2-2036
DATE _____
TYPE FACILITY PEAKING UNIT
CONTROL DEVICE _____

HOURS OF OBSERVATION _____
OBSERVER DENNIS SHANTZ
OBSERVER CERTIFICATION DATE _____
POINT OF EMISSIONS _____
HEIGHT OF DISCHARGE POINT 40 FEET

CLOCK TIME

OBSERVER LOCATION
Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS
Wind Direction

Wind Speed

Ambient Temperature

SKY CONDITIONS (clear, overcast, % clouds, etc.)

PLUME DESCRIPTION
Color

Distance Visible

Other Information

Initial			Final
200 ft			
NW			
GROUND			
SE			
1-5			
95			
CLEAR			
CLEAR			

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start--End	Opacity	
		Sum	Average
1	2:00-2:02	0	0

Readings ranged from 0 to 0 % opacity.

The source was/was ~~not~~ in compliance with 0 at the time evaluation was made.

NOTES:

1. Minimum of 24 readings to be taken at 15 second intervals.
2. Readings are to be to the nearest 5 % opacity.

SOUTH WEST
ST. PETERSBURG
AUG 23 1977
7-804

OBSERVATION RECORD

DER

AUG 23 1977

SOUTH WEST DISTRICT
ST. PETERSBURG

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		COMMENTS
		0	15	30	45	Attached	Detached	
	0	0	0	0	0			
	1	0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	4	0	0	0	0			
	5	0	0	0	0			
	6							
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



LOCATION HIGGINS P-4
 PERMIT NUMBER ACS2-2036
 DATE _____
 TYPE FACILITY PEAKING UNIT
 CONTROL DEVICE _____

Dennis A. Shantz
 _____ has completed
 the STATE OF FLORIDA visible emissions evaluation training
 and is a qualified observer of visible emissions as specified by
 EPA reference method 9.
 This certificate expires on Oct. 13, 1977

[Signature]
 Certification Officer

[Signature]
 Bearer's Signature

TY
 HOURS OF OBSERVATION _____
 OBSERVER DENNIS SHANTZ
 OBSERVER CERTIFICATION DATE _____
 POINT OF EMISSIONS _____
 HEIGHT OF DISCHARGE POINT 40 FEET

CLOCK TIME _____
 OBSERVER LOCATION _____
 Distance to Discharge _____
 Direction from Discharge _____
 Height of Observation Point _____
 BACKGROUND DESCRIPTION _____
 WEATHER CONDITIONS _____
 Wind Direction _____
 Wind Speed _____
 Ambient Temperature _____
 SKY CONDITIONS (clear, overcast, % clouds, etc.) _____
 PLUME DESCRIPTION _____
 Color _____
 Distance Visible _____
 Other Information _____

Initial			Final
200 ft			
NW			
GROUND			
SE			
0.5			
95			
CLEAR			
CLEAR			

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start--End	Opacity	
		Sum	Average
1	2:00-2:06	0	0

Readings ranged from 0 to 0 % opacity.
 The source was/was not in compliance with 0 at the time evaluation was made.

- NOTES:
 1. Minimum of 24 readings to be taken at 15 second intervals.
 2. Readings are to be to the nearest 5 % opacity.

SOUTH WEST DISTRICT
 ST. PETERSBURG
 AUG 23 1977
 DEER

SOURCE

FP & L HIGGINS P4

DATE

9-23-77

LOCATION

PINELLAS

TYPE PERMIT

0

ACTION

INITIAL WHEN COMPLETED

DATE

Preliminary Review

SWR

9-23

Assigned for Review to

Review Comments

I have reviewed the plans and applications submitted and find that the above mentioned source will not reasonably be expected to cause pollution in violation of the Department standards, rules and regulations. I recommend approval of this permit.

George W. Richardson

Number Assigned

*10-6-77
SWR*

A052-5705

9-23

Permit Issued & Signed

Permit Logged

Permit Mailed

Data Forms Completed

Permit Denied

New Source (No related permits) Boiler
 Renewed or modified permit Solid Waste (Incinerator)
 Point source deleted Other Combustion
 Point source added Process
 New Source replacing old source Product (Name)

BRIEF DESCRIPTION OF PROCESS

Peaking unit produces electricity at peak times

James

OPERATING TIME: _____ HR/DY _____ D2/WK _____ WK/YR

STACK DATA
 Height (FT) _____
 Diam. (FT) _____
 Temp. (°F) _____
 Flow Rate (CFM) _____
 Plume Height (FT) _____
 Common Stack (Explain) _____

OPERATING DATA
 Process Rate _____ #/HR
 Process Rate _____ TON/HR
 Max Design Rate _____ #/HR
 Combustion (Units) Gal TONS _____
 Rate _____ Unit/HR _____ Unit
 Heat Content _____ BTU/G
 Boiler Capacity _____ BTU/HR
 Max Design Rate _____ Unit/HR
 Fuel (Name) _____ SS _____ EA

COMMENTS:

FUEL USAGE JAN thru July 1977

NAT GAS 66888 MCF

#2 OIL 12411 bbl 0.07 % S

225.1 MWs (1976)

Avg output 28.1 MW

$$SO_2 = \frac{12411 \times 42 \times 7.7 \times 4 \times .0007}{2000} = 5.6 \text{ Tons/Yr.}$$

ANNUAL OPERATING REPORT
Calendar year 1976

Submit a separate report for each permitted source by FEBRUARY 28, 1977

SECTION 1: General

SOURCE NAME: HIGGINS P-4

MAILING ADDRESS: FLORIDA POWER CORPORATION

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

TELEPHONE NO: 813/866-4544

OPERATING PERMIT NO: A052-2036

SOURCE DESCRIPTION: Gas Turbine

DER

MAR 10 1977

SOUTH WEST DISTRICT
ST. PETERSBURG

SECTION 2: PROCESS OPERATIONS:

- a. DURATION OF OPERATION AND FREQUENCY: 225.1 hours (1976)
24 hrs/dy 7 dys/wk 52 wk/yr
e.g. 8 hrs perday, 5 dys per wk and 50 wk/yr.
- b. DESIGN CRITERIA: MAXIMUM OUTPUT 42.9 MW
e.g. 850 MW, 750 tons/dy
- c. NORMAL(AVERAGE) OUTPUT 28.1 MW = $\frac{\text{Gross Generation}}{\text{Hours Operated}}$
e.g. 424 MW, 670 tons/dy.
- d. MAXIMUM PEAK THAT OCCURED DURING ANY ONE DAY 42.9 MW
e.g. 910 MW, 810 tons/dy.

SECTION 3: TOTAL AMOUNT OF MATERIALS USED/PROCESSED, COMPUTED ON THE SAME BASIS AS PROCESS WEIGHT:

TYPE(MATERIAL)	INPUT PROCESS WEIGHT- DRY
N/A	N/A tons/yr
	tons/yr
	tons/yr
	tons/yr

SECTION 4: TOTAL AMOUNT OF FUEL USED. IF FUEL IS OIL, SPECIFY WEIGHT, e.g. NO 2, and % sulfur by weight. INCLUDE STANDBY FUELS.

71.7 10^6 cu. ft gas 173.8 10^3 gal NO. 2 OIL 0.18 %SULFUR.

10^3 gal PROPANE 10^3 gal KEROSENE

tons COAL 10^6 lb BLACK LIQUOR SOLIDS

OTHER, specify type and units

SECTION 5: EMISSION: ESTIMATED/TESTED EMISSIONS(TONS PER YEAR)

- a. Not tested tons of particulates 2.2 tons of sulfur dioxide
- Not Tested tons of nitrogen dioxide Not Tested tons of carbon monoxide
- Not Tested tons of hydrocarbon tons (other)

b. STATE METHOD OF CALCULATIONS USED IN DETERMINING EMISSION RATES

$\left(\frac{\text{Lbs Oil}}{\text{Gas Oil}}\right) \left(\frac{42 \text{ Gal}}{\text{BBL}}\right) (\% \text{ S}) \left(\frac{2 \text{ Lbs SO}_2}{\text{Lb S}}\right) (\text{BBLs}) \left(\frac{\text{Ton}}{2000 \text{ Lbs}}\right) = \text{Tons SO}_2$

ANNUAL OPERATING REPORT
calendar year 1976

SECTION 5(cont't)

c. STACK TESTED: NONE date _____

STACK TEST CONDITIONS: _____ PROCESS RATE DURING TEST _____

STACK TEST CONDUCTED BY: _____

STACK TEST WITNESSED BY: _____

SECTION 6: OPERATIONAL PROBLEMS, IF ANY: NORMAL

a. IMPROVEMENTS MADE TO PROCESS/POLLUTION CONTROL EQUIPMENT: NONE

b. TYPE OF MAINTENANCE PERFORMED: ROUTINE

c. NUMBER OF UPSETS LASTING MORE THAN FOUR HOURS DURING THE YEAR: UNKNOWN

d. NUMBER OF UPSETS LASTING MORE THAN ONE HOUR BUT NOT MORE THAN FOUR HOURS: UNKNOWN

e. NUMBER OF UPSETS LASTING LESS THAN ONE HOUR: UNKNOWN

CERTIFICATION:

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IN THIS REPORT IS CORRECT TO THE BEST OF MY KNOWLEDGE.

Eustice Parnelle *for W.P. Stewart*
Signature of owner or authorized representative

R. E. Parnelle, Jr., Manager, Environmental Operations
Typed name and title

March 4, 1977
Date

VISIBLE EMISSION FIELD REPORT

BEST AVAILABLE COPY

FLORIDA POWER CORPORATION
P.O. BOX 14042, ST. PETE., FLA. 33733

DATE 21 Sept 76
TIME 1400

PERMIT NUMBER A0 52 2036
 SOURCE NAME Higgins P-4 COUNTY Pinellas
 SOURCE LOCATION Oldsmar, Fla
 SOURCE DESCRIPTION (TYPE) Gas Turbine
 POINT OF OBSERVATION Southeast
 DISTANCE TO SOURCE 100ft

MIN	SECONDS				MIN	SECONDS			
	0	15	30	45		0	15	30	45
0	5		5		30				
1	5		5		31				
2	5		5		32				
3	5		5		33				
4	5		5		34				
5	5		5		35				
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24	5		5		54				
25	5		5		55				
26	5		5		56				
27	5		5		57				
28	5		5		58				
29	5		5		59				


DIRECTION OF OBSERVER FROM SOURCE Southeast
 DIRECTION OF WIND FROM SOURCE West
 WIND VELOCITY 5
 DIRECTION OF SUN FROM SOURCE South
 CLOUD COVERAGE (IN %) 50%

NOTE:
 1. MINIMUM OF 25 READINGS MUST BE TAKEN.
 2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST 5% OPACITY.

SUM OF OPACITY READINGS 300
 TOTAL NUMBER OF READINGS 60

OPACITY = $\frac{\text{SUM OF OPACITY READINGS}}{\text{TOTAL NUMBER OF READINGS}}$ = 5%
 OBSERVER Dennis A. Shantz
 NOTES - _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



Dennis Shantz, has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.
 This certificate expires on November 5, 1976

[Signature] Certification Officer *[Signature]* Bearer's Signature

VISIBLE EMISSION FIELD REPORT
FLORIDA POWER CORPORATION
P.O. BOX 14042, ST. PETE., FLA. 33733

DATE 8-25-75
 TIME 10:00 AM

PERMIT NUMBER A052-2036
 SOURCE NAME HIGGINS P-4 COUNTY PINELLAS
 SOURCE LOCATION OLDS MAR FL
 SOURCE DESCRIPTION (TYPE) PEAKING UNIT
 POINT OF OBSERVATION NORTH
 DISTANCE TO SOURCE 500 FEET

MIN	SECONDS				MIN	SECONDS			
	0	15	30	45		0	15	30	45
0	0		0		30				
1	0		0		31				
2	0		0		32				
3	0		0		33				
4	0		0		34				
5	0		0		35				
6	0		0		36				
7	0		0		37				
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21	0		0		51				
22	0		0		52				
23	0		0		53				
24	0		0		54				
25	0		0		55				
26	0		0		56				
27	0		0		57				
28	0		0		58				
29	0		0		59				

DIRECTION OF OBSERVER FROM SOURCE
NORTH

DIRECTION OF WIND FROM SOURCE
EAST

WIND VELOCITY
5-15 MPH

DIRECTION OF SUN FROM SOURCE
EAST

CLOUD COVERAGE (IN %)
15%

NOTE:
 1. MINIMUM OF 25 READINGS MUST BE TAKEN.
 2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST .5% OPACITY.

SUM OF OPACITY READINGS
0

TOTAL NUMBER OF READINGS
60

OPACITY = $\frac{\text{SUM OF OPACITY READINGS}}{\text{TOTAL NUMBER OF READINGS}}$ = 0

OBSERVER Ronald R. Campbell

CERT. NO. _____

NOTES - UNIT ON GAS

SOURCE: Fl. Power Corp.
Higgins Peaking Unit P-4
COUNTY: Pinellas

DATE: 7-3-75
TYPE PERMIT: Operation

ACTION

INITIAL WHEN COMPLETED

DATE

Preliminary Review

J. L. Tessitore

6-30-75

Assigned for Review to

D. Tomkins

7-8-75

Review comments

DAVE Tomkins.

No V.E. test data submitted. With application, ~~30 day V.E. test requirement being placed on permit~~ ~~plans.~~ Refer to comments for particulates and SO₂ Emission. Recommend application to be returned due to inadequate data for evaluation.

Number Assigned

A052-2036

D.A.T.

Permit issued & signed

Permit logged

Permit mailed

Data forms completed

Permit Denied

REVIEWED BY: DAVE Tomkins DATE: 8/7/75

NEDS POINT ID. 07

PERMIT NO. 1052-2036

IS INFORMATION CONFIDENTIAL? YES _____ NO

<u>TYPE PERMIT ACTION</u>	<u>DESCRIPTION OF PRIMARY SOURCE</u>
New Source (No related permits) _____	Boiler _____
<u>Renewed</u> or modified permit <input checked="" type="checkbox"/>	Solid Waste (Incinerator) _____
Point source deleted _____	Other Combustion <input checked="" type="checkbox"/>
Point source added _____	Process _____
New Source replacing old source _____	Product (Name) _____

BRIEF DESCRIPTION OF PROCESS

This is an Electric Utility Peaking Unit, used during peak periods of system demand.

Various times of day

OPERATING TIME: _____ HR/Da _____ Da/Wk _____ Wk/Yr

STACK DATA

Height (FT) 54.4

Diam. (FT.) 7.5

Temp. (°F) 850°F

Flow Rate (CFM) 4,000,000 CFM

Plume Height (FT) _____

Common Stack (Explain) _____

OPERATING DATA

Process Rate _____ #/HR

Process Rate _____ TONS/Yr.

Max Design Rate _____ #/Hr.

Combustion (Units) Gal TONS _____ FT³ _____

Rate 2539 GAL/DAY Unit/Hr _____ Unit/Yr

Heat Content 136,000 ~~BTU/GAL~~ BTU/Gal.

~~Boiler~~ Capacity 14 x 10⁶ BTU/Hr.

Max Design Rate _____ Unit/Hr.

Fuel (Nmme) Jet A %s 0.02% %A

COMMENTS:

NATURAL GAS:

1817 MCF/DAY - USE Factor
77 x 10⁶ - Heat Input BTU/hr

Calculations based on EPA Factors are as follows:

Jet A (Distillate 142) (15 lb/10³ gal) (2539 gal/day) =
15 x 2.5 = 37.5 lb/day

Natural Gas (15 lb/10⁶ scf) (1817 mcf/day) =

15 x 1817 mcf = 27,255 lb/day
The application emission numbers appear to be in error

CONTROL EQUIPMENT

<u>Pollutant</u>	<u>Control Method</u>	<u>% EFF.</u>
Particulates	<i>N/A</i>	
SO ₂		
NO _x		
HC		
CO		
F ⁻		

<u>POLLUTANT</u>	<u>EMISSION ESTIMATE</u>				<u>TEST DATA</u>
	<u>LB/HR.</u>	<u>TONS/HR.</u>	<u>LB/TON (PROD.)</u>	<u>LB/10⁶ BTU</u>	
Particulates	<i>16 LB/DAY</i>				
SO ₂	<i>46 LB/DAY</i>				
NO _x	<i>Application.</i>				
HC					
CO					
F ⁻					

BASIS FOR ESTIMATE:

- Not applicable (if emissions are negligible)
- Stack test results or emission measurements
- Material balance of process using engineering knowledge
- Emissions calculated using EPA emission factors
- Guess
- Emission factor difference from official EPA factor

<u>POLLUTANT</u>	<u>ALLOWABLE EMISSIONS</u>			<u>APPLICABLE REGULATIONS</u>
	<u>LBS/HR.</u>	<u>LBS/TON (PROD.)</u>	<u>LBS/10⁶ BTU</u>	
PARTICULATES	<i>Visible Emissions</i>			
SO ₂				
NO _x				
HC				
CO				
F ⁻				



**Florida
Power**
CORPORATION

September 9, 1975

Mr. J. H. Kerns
Florida Dept. of Environmental Regulation
P. O. Box 9205
Winter Haven, FL 33880

Dear Mr. Kerns:

Florida Power Corporation is resubmitting the Air Permit Applications for Higgins Peaking Units P-1, P-2, P-3 and P-4. These units will operate almost exclusively on natural gas. Unit No. P-2 has the capability to operate on liquid fuel; however, it rarely is operated on anything but natural gas. Listed below is the information on operation hours per past six months experience.

	<u>P-1</u>	<u>P-2</u>	<u>P-3</u>	<u>P-4</u>
February	1.3	1.6	0	0
March	1.0	3.9	0.5	0
April	26.9	18.3	36	0
May	72.9	68.6	82.4	47
June	2.4	44.5	52.5	34.7
July	0	4.3	7.7	11.7

Enclosed is the permit application for Bartow Unit No.1 which was evidently returned by mistake.

Should you have any questions concerning this information, please telephone me at (813) 866-4544.

Sincerely,

A handwritten signature in cursive script that reads "R. E. Parnelle, Jr." The signature is written in dark ink and is positioned above the typed name.

R. E. Parnelle, Jr.
Administrator, Environmental Operations

c1
Atts.



June 27, 1975

Mr. W. E. Linne
Florida Department of Pollution Control
P.O. Box 9205
Winter Haven, FL 33880

Dear Mr. Linne:

We are forwarding applications to Operate Pollution Sources for our Bartow Plant Unit #1; Higgins Plant Units 1, 2 and 3; and Higgins Peaking Units P-1, P-2, P-3 and P-4.

Our check, No. 0155726 dated June 26, 1975, in the amount of \$160 is also enclosed to cover the required filing fee of \$20 per application.

If you should have any questions regarding these applications, please telephone me at (813) 866-4544.

Sincerely,

R. E. Parnelle, Jr.
Administrator, Environmental Operations

c1
Atts.



JOSEPH W. LANDERS JR.

SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

AUGUST 12, 1975
FLORIDA POWER CORP.
PINELLAS CO. AP

R. E. Parnelle, Jr., Administrator
Environmental Operations
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

RE: Air Permit Applications
Higgins Peaking Units
P-1, P-2, P-3 & P-4

Dear Mr. Parnelle:

The above applications are being returned for inadequate information.

Please re-submit with proper visible emission test data and an average use factor for each unit regarding Jet A. fuel or natural gas. Also submit operation time data per pass 6 month experience.

Since the July 1, 1975 visible emission compliance date has passed and permit A052-2036 has expired, please respond within 20 days of the date of this letter.

Sincerely,

J. H. Kerns, P.E.



STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

PETER P. BALJET
EXECUTIVE DIRECTOR

W.D. FREDERICK, JR.
CHAIRMAN

May 28, 1975

Florida Power Corp.
P. O. Box J
Oldsmar, Florida 33557

Dear Sir:

In a review of permits by this office it was noted that
permit number See Ref. below will expire on 7/1/75.

Your attention is called to Chapter 17-4.09 FAC Renewals
which require the permittee to apply for renewal of a
permit (60) sixty days prior to the expiration of any
Department permit.

Separate applications must be submitted for each point
source.

If the permit is no longer applicable, please inform this
office.

Your cooperation in this matter is appreciated.

Yours truly,

J. Tessitore
Air Permitting Engineer
West Central Region

JT/pm

Ref: AO 52-2040
AO 52-2041
AO 52-2042
AO 52-2036 ✓



STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

W.D. FREDERICK, JR.
CHAIRMAN

PETER P. BALJET
EXECUTIVE DIRECTOR

June 9, 1975
Pinellas County - AP
Florida Power Corp.

Production Superintendent
Florida Power Corporation
P. O. Box J
Oldsmar, Florida 33557

Re: Permits A052-2042
A052-2041
A052-2040
A052-2036 ✓

Dear Sir:

The Department of Pollution Control Regulations require that visible emissions meet compliance of 20 percent opacity by July 1, 1975. (Chapter 17-2.04(1).)

- 1) Visible Emissions-No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from:
 - a) Existing Sources, until July 1, 1975, the density of which is equal to or greater than that designated as Number 2 on the Ringelmann Chart or the opacity of which is equal to or greater than 40 percent.
 - b) New Sources, and after July 1, 1975, existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart or the opacity of which is equal to or greater than 20 percent.
 - c) This subsection 17-2.04(1) does not apply to emissions emitted in accordance with specified emission limiting standards or in accordance with the process weight table (Table I) provided in this chapter.
 - d) If the presence of uncombined water is the only reason for failure to meet visible emission standards given in this section such failure shall not be a violation of this rule.

This letter is to notify you that visible emission test for each point source shall be submitted to the DPC West Central office in Winter Haven, by a certified observer no later than July 1, 1975.

If you have conducted a visible emission test within the last 6 months, a test need not be performed.

If you have any questions, please contact this office.

Sincerely,

J. H. Kerns, P.E.
Regional Engineer
West Central Region

JHK/JLT/pm

John R. Middemas
BOARD MEMBER

Alice C. Wainwright
BOARD MEMBER

Mark D. Hollis
BOARD MEMBER

Y.E. Hall
BOARD MEMBER



Lawton Chiles
Governor

Florida Department of Environmental Protection

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT ISSUANCE

CERTIFIED MAIL

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

DER File No.: A052-216423
County: Pinellas

Enclosed is Amended Permit Number A053-216423 to operate Higgins Peaking Unit No. 4, 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.



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: 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.: AO52-216423
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/10³ Gallons</u>	<u>Natural Gas</u> <u>Pounds/10⁶ ft³</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.).

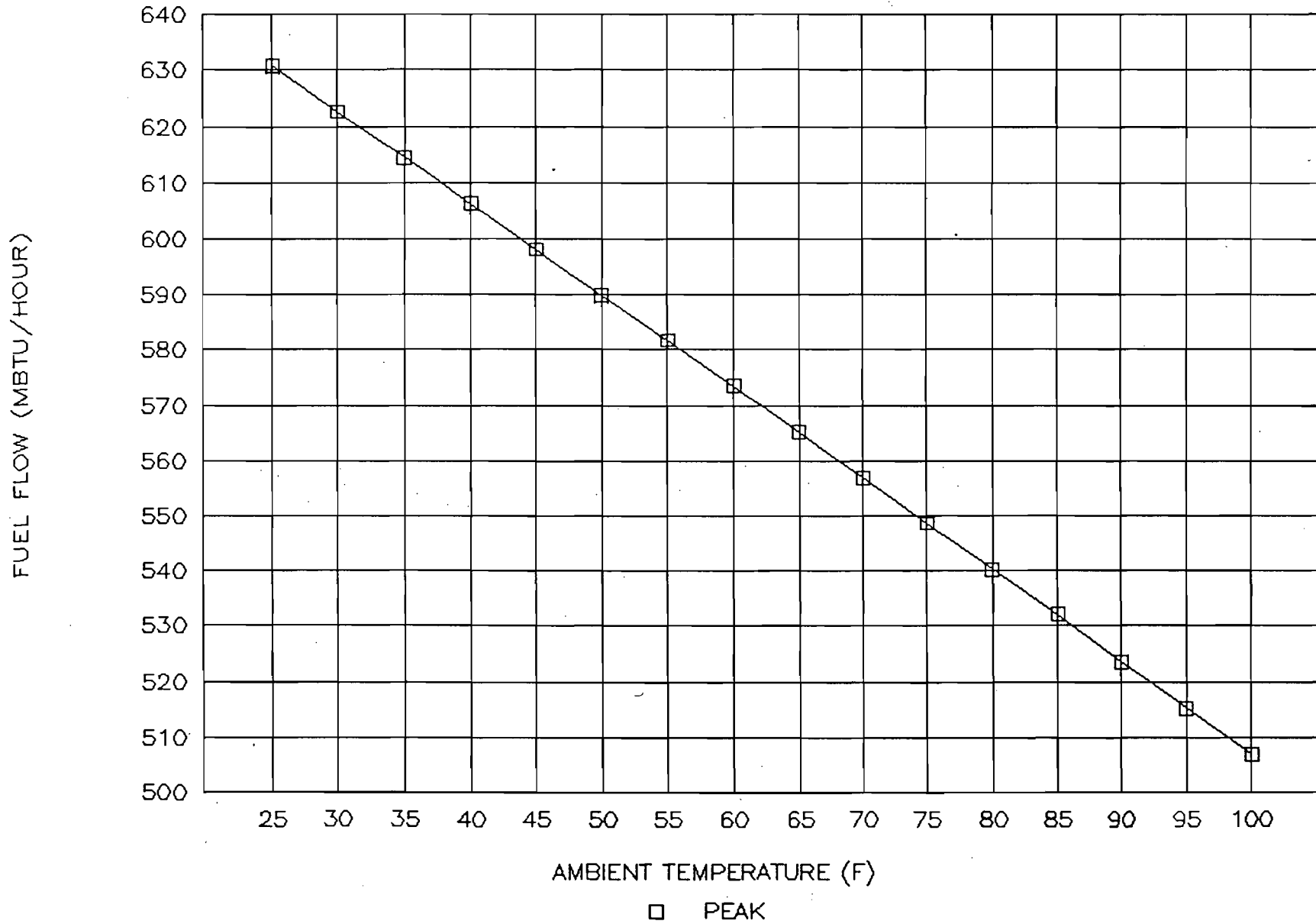
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For 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

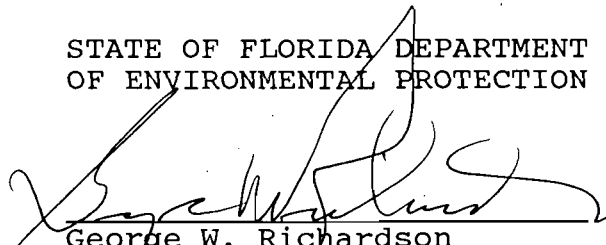


Mr. W. J. Pardue
St. Petersburg, FL 33733

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

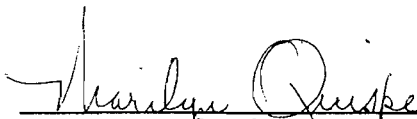
Attachment:

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.


clerk

OCT 27 1993
Date

P 648 752 007



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

PS Form 3800, June 1990

	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date A053-216420, 421, OCT 27 1993 422, 423	

P 648 752 008



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

PS Form 3800, June 1990

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date OCT 27 1993 A052-216420, 421, 422, 423	

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.



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

In the Matter of an Application
for Permit by:

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

DER File No.: A052-216423
County: Pinellas

Enclosed is Permit Number A052-216423 to operate Higgins Peaking Unit No. 4, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-2 & 17-4.

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

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;

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

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

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. 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, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This permit 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, Florida Administrative Code. 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.

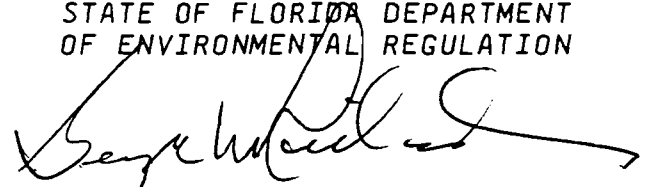
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair 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 REGULATION



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 Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on NOV 13 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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

Marilyn Quiske NOV 13 1992
Clerk Date

P 079 942 811

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
 NOT FOR INTERNATIONAL MAIL
 - See Reverse

MR W J PARDUE
 MANAGER ENV PROGRAMS
 FLORIDA POWER CORP
 PO BOX 14042
 ST PETERSBURG FL 33733

Number	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom article delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	NOV 13 1992
A052 - 216420 " " - 216421 " " - 216422 " " - 216423	

PS Form 3800, June 1985

<p>SENDER:</p> <ul style="list-style-type: none"> Complete items 1 and/or 2 for additional services. Complete items 3, and 4a & b. Print your name and address on the reverse of this form so that we can return this card to you. Attach this form to the front of the mailpiece, or on the back if space does not permit. Write "Return Receipt Requested" on the mailpiece below the article number. The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery. 		<p>I also wish to receive the following services (for an extra fee):</p> <ol style="list-style-type: none"> <input type="checkbox"/> Addressee's Address <input type="checkbox"/> Restricted Delivery <p>Consult postmaster for fee.</p>							
<p>3. Article Addressed to: A052-216420 GR 421, 422 + 423</p>		<p>4a. Article Number P 079 942 811</p>							
<p>MR W J PARDUE MANAGER ENV PROGRAMS FLORIDA POWER CORP PO BOX 14042 ST PETERSBURG FL 33733</p>		<p>4b. Service Type</p> <table> <tr> <td><input type="checkbox"/> Registered</td> <td><input type="checkbox"/> Insured</td> </tr> <tr> <td><input checked="" type="checkbox"/> Certified</td> <td><input type="checkbox"/> COD</td> </tr> <tr> <td><input type="checkbox"/> Express Mail</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> </table>		<input type="checkbox"/> Registered	<input type="checkbox"/> Insured	<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> COD	<input type="checkbox"/> Express Mail	<input type="checkbox"/> Return Receipt for Merchandise
<input type="checkbox"/> Registered	<input type="checkbox"/> Insured								
<input checked="" type="checkbox"/> Certified	<input type="checkbox"/> COD								
<input type="checkbox"/> Express Mail	<input type="checkbox"/> Return Receipt for Merchandise								
<p>5. Signature (Addressee)</p> <p><i>W J Pardue</i></p>		<p>7. Date of Delivery NOV 16 1992</p>							
<p>6. Signature (Agent)</p>		<p>8. Addressee's Address (Only if requested and fee is paid)</p>							
<p>PS Form 3811, November 1990 * U.S. GPO: 1991-287-005 DOMESTIC RETURN RECEIPT</p>									

P 079 942 812

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

Postage	
Delivery Fee	
Return Receipt Fee	
Registered Mail Fee	
Express Mail Fee	
Return Receipt showing Postmark and Date Delivered	
Return Receipt showing to whom Delivered and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	NOV 13 1992
A052-216420 " " - 216421 " " - 216422 " " - 216423	

PS Form 3800, June 1987

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive following services (for a fee):

- 1. Addressee's Address
- 2. Restricted Delivery

Consult postmaster for fee

3. Article Addressed to: A052-216420, GR
421, 422 + 423

4a. Article Number
P 079 942 812

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

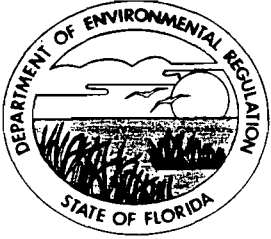
4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt Merchandise

7. Date of Delivery
NOV 16 1992

5. Signature (Addressee)

8. Addressee's Address (Only if return fee is paid)

6. Signature (Sender)
Albert W Morneau



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, 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 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 Peaking Unit No. 4. This unit is fired with natural gas or new No. 2 fuel oil. This is a gas turbine unit consisting of two Pratt & Witney jet engines. This unit is rated at 42.9 MW/hour with a maximum heat input rate of 631 MMBTU/hour. Maximum fuel usage rate is 0.63 MCF/hour of natural gas or 107 bbl/hour of new No. 2 fuel oil.

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 17-2.610(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 4 for visible emissions* at intervals of 12 months from the date of January 7, 1992 if the unit operated more than 5 days (120 hours) on fuel oil the proceeding 12 months. Submit a copy of the test data to the Air Section of the Southwest District Office of the Department of Environmental Regulation and the Pinellas County Department of Environmental Management, Air Quality Division within 45 days of such testing. Testing shall be consistant with the requirement sof Rule 17-2.700, F.A.C.:
- * Visible emissions compliance tests must be conducted while the unit is being fired on new No. 2 fuel oil.
4. Compliance with the visible emissions limitation of Specific Condition No. 2 shall be determined using DER Method No. 9 contained in Rule 17-2.700, F.A.C. Pursuant to Rule 17-2.700(1)(d)1.b., F.A.C., the visible emissions compliance test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source sampling and reporting, shall be in accordance with the requirements of Rule 17-2.700, F.A.C.
5. Testing of emissions must be accomplished within 90-100% of the maximum permitted rate of 42.9 MW/hour. A compliance test submitted at operating rates less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate. Failure to submit the input rates and actual operating conditions may invalidate the test (Rule 17-4.070, 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 each compliance test is to begin (Rule 17-2.700(2)(a)9., F.A.C.).
7. Higgins Peaking Unit No. 4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Permitted Load Rate: 42.9 MW/hour
2. Maximum Heat Input Rate: 631 MMBTU/hour
3. Maximum Fuel Usage Rate: 0.63 MCF/hour of natural gas,
107 BBL/hour of new No. 2 fuel oil

PERMITTEE:

Florida Power Corporation

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

8. The new No. 2 fuel oil is to be monitored prior to delivery and a daily sample taken for a monthly composite sample. The fuel oil is to be analyzed for the following:

- a. BTU
- b. API Gravity
- c. Density
- d. Sulfur Content

This data is to be used to calculate the SO_2 emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.


9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 403.080, F.S.:

- A. Annual amount of materials and/or fuels utilized.
- B. Annual emissions (note calculation basis).
- C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Section of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management, Air Quality Division.

10. Two applications to renew this operating permit shall be submitted to the Air Section of the Southwest District of the Department of Environmental Regulation 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 operating permit (Rule 17-4.090, F.A.C.).

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; 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 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 Standards

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.



Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # _____
Form Title _____
Effective Date _____
DER Application No. _____

A052-216423

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 4 Renewal of DER Permit No. A052-137554

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 4

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336-54 North 3098-28

Latitude: 28° 0' 0" N. Longitude: 82° 39' 49" W.

NEDS No: 0012 Point ID: 07

- 1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05. No Fee Required
2. Have there been any alterations to the plant since last permitted? [] Yes [x] No
3. Attach the last compliance test report required per permit conditions if not submitted previously. Compliance test performed on January 7, 1992
4. Have previous permit conditions been adhered to? [x] Yes [] No
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [] Yes [x] No
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [x] Yes [] No
7. Has the annual operating report for the last calendar year been submitted? [x] Yes [] No

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	107	107	631
Natural gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____


A052-216423

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted


 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
W. Jeffrey Pardue, Manager, Environmental Programs
 Typed Name and Title
 P.O. Box 14042
 Address
 St. Petersburg City FL 33733
 City State Zip
7-15-92 Date (813) 866-4387 Telephone No.

DER Form 17-1.202(4)
 Effective November 30, 1982

OFFICIAL NOTARY SEAL
 MARYJANE R BLAIN
 NOTARY PUBLIC STATE OF FLORIDA
 COMMISSION NO. CC184189
 MY COMMISSION EXP. JUNE 3, 1994

w.j. Pardue appeared me this 15th day of July, 1992
M-J-R. Blain

OPERATION PERMIT RENEWAL
Professional Engineer Certification

This certification must be attached to the renewal application(required by Rule 17-4.050(3), FAC) for:

Company Name: FLORIDA POWER CORPORATION
Source Name: HIGGINS PEAKING UNIT 4
Source Permit No.: AO 52-137554
Source ID: NEDS NO. 0012 POINT ID: 07
County: PINELLAS

PROFESSIONAL ENGINEER REGISTERED IN FLORIDA
(WHERE REQUIRED BY Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with applicable Statutes of the State of Florida.

Albert W. Morneau
Name

Florida Power Corporation
Company Name

3201 - 34th Street South
Street Address

St. Petersburg, FL 33733
City, State, and Zip Code

Affix Seal

Signed

Florida Registration No. 14054

Date: 8/17/92

Telephone No. 813/866-5162

Taken From DER Form 17-1.202(1)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 113804

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Fla. Power Corp. Date 7/31/87
Address P.O. Box 14042, St. Pete, Fla. Dollars \$ 100.00
33733
Applicant Name & Address same
Source of Revenue Higgins Peaking Unit 4
Revenue Code 001032 Application Number A052-137554
CK 935909 By Donna Harrow

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 113804

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Fla Power Corp Date 7/31/87
Address P.O. Box 14042, St. Pete, Fla Dollars \$ 100.00
33733
Applicant Name & Address same
Source of Revenue Higgins Peaking Unit 4
Revenue Code 001032 Application Number A052-137554
CK 935909 By Donna Harrow

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347
813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
DR. RICHARD D. GARRITY
DISTRICT MANAGER

NOTICE OF PERMIT

Mr. J.A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Hancock:

Re: Pinellas County - AP
Higgins Peaking Unit No. 4

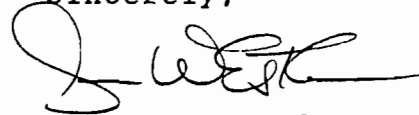
Enclosed is Permit Number AO52-137554 to operate a peaking unit (designated as Unit No. 4), issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee Florida 32301, within fourteen (14) days of receipt 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. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph 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, FAC. 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 Stone Road, Tallahassee, Florida 32301; 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.

Sincerely,



James Wm. Estler
Air Permitting Engineer

JWE/dtw

Attachment: as stated

cc: PCDEM

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10-13-87 to the listed persons.

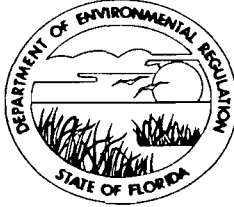
FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52(10), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Klaus J. Wright 10-13-87
Clerk Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347
813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:

Mr. J.A. Hancock
Vice President
Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

Permit No.: AO52-137554
County: Pinellas
Expiration Date: 9-16-92
Project: Higgins Peaking
Unit No. 4

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 Peaking Unit No. 4 using natural gas or #2 fuel oil. Peaking Unit #4 consists of two Pratt & Whitney jet engines. The unit is rated at 42.9 MW/hour with a maximum heat input of 631 MMBTU/hour. Maximum fuel usage is .63 MMCF/hour for natural gas and 107 BBL/hour for #2 fuel oil.

Location: Shore Drive, Oldsmar, Pinellas County, FL

UTM: 17-336.54E 3098.25N NEDS NO: 0012 Point ID: 07

Replaces Permit No.: AO52-58636

AO52 - 137554

DER Form 17-1.201(5) Page 1 of 7.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate the enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.

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 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

6. The permittee shall at all times 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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of;

a. Having access to and copying any records that must be kept under the conditions of the permit:

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring 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 notify and provide the department with the following information:

(a) a description of and cause of non-compliance; and

(b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.

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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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 Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

14. (con't)

b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

SPECIFIC CONDITIONS:

1. Test the emissions for the following pollutant(s) within 30 days of start up and at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

- | | |
|------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity* | () Hydrocarbons |

*Visible emissions test must be conducted while unit is fired on #2 fuel oil

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610(2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions Nos. 1 and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

The test methods are contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within $\pm 10\%$ of the permitted rate 42.9 MW/hour. A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 631 MMBTU/hour
2. Fuel Consumption: 107 BBL/hour of #2 fuel oil
0.63 MMCF/hour of natural gas
3. Stack Height: 53 feet
4. Peaker Make: Two Pratt & Witney jet engines

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137554
Project: Higgins Peaking
Unit No. 4

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:
- a. BTU
 - b. API Gravity
 - c. Density
 - d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.


7. The Pinellas County Department of Environmental Management shall be notified in writing 15 days prior to compliance testing.
8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..
- A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions (note calculation basis)
 - C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

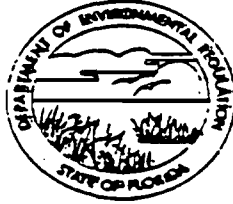
Issued this 12th day of October
1987

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR
VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 4 Renewal of DER Permit No. A052-58636

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Line Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 4

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336.5 North 3098.3

Latitude: 2 8° 0' 0 8"N. Longitude: 8 2° 3 9' 4 9"W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
See attached letter.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
See attached letter.

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	107	107	631
Natural gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

A. Hancock

Signature, Owner or Authorized Representative
 (Notarization is mandatory)
J.A. Hancock, Vice President, Fossil Operations
 Typed Name and Title
P.O. Box 14042
 Address
St. Petersburg FL 33733
 State Zip
7/17/87
 Date
813/866-4524
 Telephone No.

- *During actual time of operation.
- **Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.
- ***Attach letter of authorization if not previously submitted

ER Form 17-1.202(4)
 Effective November 30, 1982

Sworn to and subscribed before me this 17th day of July, 1987.

Theresa A. Gillespie

My Commission Expires: October 21, 1990.



**Florida
Power**
CORPORATION

March 3, 1987

Dr. R. D. Garrity
Manager, Southwest District
Florida Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33637

Dear Dr. Garrity:

Subject: Florida Power Corporation
1986 Annual Operations Report

The 1986 Annual Operation Reports are enclosed for the following units:

Anclote Unit 1 (AO51-106660)	Crystal River Unit 1 (AO09-89919)
Anclote Unit 2 (AO51-94924)	Crystal River Unit 2 (AO09-115452)
Bartow Unit 1 (AO52-63210)	Crystal River Unit 4 (Site Certification)
Bartow Unit 2 (AO52-56650)	Crystal River Unit 5 (Site Certification)
Bartow Unit 3 (AO52-56651)	Crystal River Fly Ash System
Bartow Fly Ash System (AO52-71879)	Source No. 1 (AO09-117845)
Bartow Anclote Pipeline Heater (AO52-80149)	Source No. 2 (AO09-117846)
Bayboro P-1 (AO52-89916)	Source No. 3 (AO09-117847)
Bayboro P-2 (AO52-89915)	Source No. 4 (AO09-114093)
Bayboro P-3 (AO52-89914)	Source No. 5 (AO09-114094))
Bayboro P-4 (AO52-89911)	Higgins Unit 1 (AO52-56652)
	Higgins Unit 2 (AO52-56653)
	Higgins Unit 3 (AO52-56654)

The 1987 Annual Operations Reports are not being submitted for those combustion turbines which have been in extended cold shutdown and did not

operate during 1986. The following units did not operate in 1986:

Bartow P-1 (AO52-89907)
Bartow P-2 (AO52-89904)
Bartow P-3 (AO52-89903)
Bartow P-4 (AO52-89902)
Higgins P-1 (AO52-58633)
Higgins P-2 (AO52-58634)
Higgins P-3 (AO52-58635)
Higgins P-4 (AO52-58636)

Should you have any questions concerning this information, please call me at (813) 866-4481.

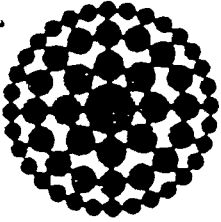
Sincerely,



Elaine R. Macinski
Environmental & Licensing Affairs

ERM:dr

cc: Mr. Peter Hessling
Pinellas County Department of Environmental Management
Division of Air Quality
w/attachments, Bartow, Bayboro and Higgins)



**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
 Higgins Peaker #2 A052-58634
 Higgins Peaker #3 A052-58635
 Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

M J Hancock / JAH

J. A. Hancock
Vice President, Fossil Operations

Hancock(M02)C3-1

JAH:ey

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 063823

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Power Date July 29, 1982
Address P.O. Box 14042 Dollars \$ 100.00
Applicant Name & Address same as above
Source of Revenue same as above
Revenue Code 0101 Application Number A052-58636
By Monrovia Palham

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

October 22, 1982

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Moore:

Re: Pinellas County - AP
Higgins Peaking Unit #4

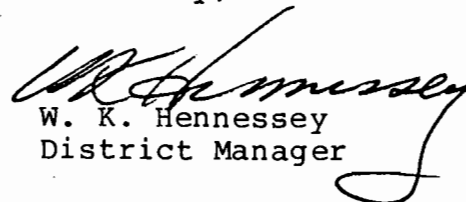
Enclosed is Permit Number A052-58636 dated 10/22/82, to operate the subject pollution source, issued pursuant to Section 403.061(14), Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.201, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department may periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

Sincerely,


W. K. Hennessey
District Manager

WKH/scm

Enclosures
cc: PCDEM

RULES OF THE ADMINISTRATION COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

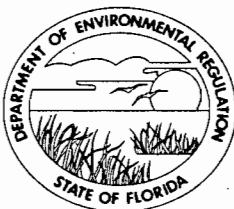
PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (g) Other information which the petitioner contends is material.

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201 (3) (a), FAC)

DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

APPLICANT:

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

No.: A052-58636
County: Pinellas
Project: Higgins Peaking Unit #4

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

For the operation of the Higgins Peaking Unit #4 using No. 2 fuel oil or natural gas. Maximum heat input is 631 MMBTU/hr.

Located at Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N

Replaces Permit No.: A052-5705 NEDS No.: 0012 Point ID: 07

Expiration Date: October 12, 1987

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #4
Page 2 of 4 of Permit No.: A052-58636

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations.

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

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

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

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

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

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #4
Page 3 of 4 of Permit No. A052-58636

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

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

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

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)

SPECIFIC CONDITIONS

1. Test the emissions for the following pollutant(s) at intervals of 12 month from the date September 29, 1982 and submit a copy of test data to the Air Section of the Southwest District Office within forty five days of such testing (Section 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- | | |
|------------------|--------------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity | () Hydrocarbons |
| | () Total Reduced Sulfur |

*Fuel analysis may be submitted for required sulfur dioxide emission test.

2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #4
Page 4 of 4 of Permit No.: A052-58636

3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.

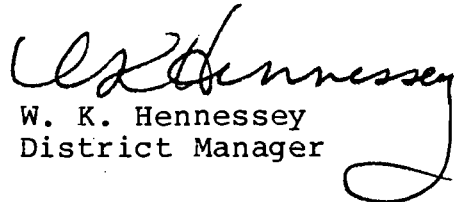
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

4. Visible emissions from this source shall not equal or exceed 20% opacity. The test shall be conducted using DER Method #9.

5. Visible emission test shall be conducted when unit is being fired with No. 2 fuel oil.

Issued this 22nd day of October,
1982

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


W. K. Hennessey
District Manager

EXPIRATION DATE

October 12, 1987

A052-58636
PAID JUL 29 1982



D.E.R.

JUL 29 1982

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Peaking Unit Renewal of DER Permit No.: A052-5705

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e.; Lime Kiln No. 4 with Ventrui Scrubber; Peaking Unit No. 2. Gas Fired):

Higgins #4 Peaking Unit

Source Location: Street: Booth Road City: Oldsmar

UTM: East 336540 North 3098250

Latitude: 2 8 0 0 0 . 0 8 "N. Longitude: 8 2 0 3 9 . 4 9 "

1. Attach herewith a twenty dollar (\$20) check made payable to the "Department of Environmental Regulation."
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No
If yes, and not previously reported, give brief details and what action was taken on separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department?
 Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Type	Contaminant	% Wt	Rate	Utilization	lbs/hr

B. Product Weight (lbs/hr): _____

BEST AVAILABLE COPY

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
No. 2 Fuel Oil	107	107	631
Natural Gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____ ; days/wk _____ ; wks/yr _____ ; hrs/yr (power plants only) 8760 _____ ; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

G. C. Moore

Signature, Owner or Authorized Representative
(Notarization is mandatory)

for G. C. Moore, Vice President, Power Production
Typed Name and Title

Florida Power Corporation, PO Box 14042
Address

St. Petersburg City FL State 33733 Zip

7/26/82 Date (813) 866-4140 Telephone No.

Paul J. Crockett

Notary Public, State of Florida at Large
My Commission Expires Aug. 24, 1983
Bonded By American Fire & Casualty Company



*During actual time of operation.
**Limits: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach a letter of authorization if not previously submitted.



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

REUBIN O'D. ASKEW
GOVERNOR

October 10, 1977
Pinellas County - AP
Florida Power Corporation

JOSEPH W. LANDERS, JR.
SECRETARY

Mr. W.P. Stewart
Director Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

RE: A052-5705

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-5705) dated October 10, 1977 to operate the subject pollution source.

This permit will expire on Sept. 21, 1982 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "Operation Permit Conditions".

This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

A handwritten signature in dark ink, appearing to read "P. David Puchaty".

P. David Puchaty
District Manager
Southwest District

cc: Central Files

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

PINELLAS COUNTY

OPERATION PERMIT

FOR Florida Power Corporation

Post Office Box 14042

St. Petersburg, FL 33733

PERMIT NO. AO52-5705 DATE OF ISSUE October 10, 1977

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061 (16) AND 403.707 OF CHAPTER 403, FLORIDA STATUTES AND CHAPTERS 17-4 AND 17-7, FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO Mr. W. F. Stewart, Director, Power Production

FOR THE OPERATION OF THE FOLLOWING:
The No. 14 Higgins Peaking Unit fired by Natural Gas or oil Subject to provisos 1, 2, 3, 5, 6 & 9.

LOCATED AT Oldsmar, Pinellas County

UTM 17-336.5 E-3098.2N

IN ACCORDANCE WITH THE APPLICATION DATED September 9, 1977

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL September 21, 1982

OR UNLESS REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT

J. S. Lewis
DISTRICT ENGINEER

Joseph W. Landers, Jr.
JOSEPH W. LANDERS, JR.
SECRETARY

William J. ...
DISTRICT MANAGER

GWR

State of Florida
Department of Environmental Regulation

OPERATION PERMIT CONDITIONS
FOR AIR POLLUTION SOURCES

Permit No.: A052-5705

Date: October 10, 1977

An (X) indicates applicable conditions

- (X) 1. The permit holder must comply with Florida Statute, Chapter 403 and the applicable Chapters of the Department of Environmental Regulation in addition to the conditions of this permit (Chapter 403.161(1)(b), Florida Statutes).
- (X) 2. Test the emissions for the following pollutant(s) at intervals of twelve months from the date 9-21-77 and submit a copy of test data to the District Engineer of this agency within fifteen days of such testing (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.)).
 - () Particulates
 - () Sulfur Oxides
 - () Fluorides
 - () Nitrogen Oxides
 - (X) Plume Density
 - () Hydrocarbons
 - () Total Reduced Sulfur
- (X) 3. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
- () 4. Submit for this source quarterly reports showing the type and monthly quantities of fuels used in the operation of this source. Also state the sulfur content of each fuel (Chapter 17-4.14, F.A.C.).
- (X) 5. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
 - (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.

- (X) 6. In the event the permittee is temporarily unable to comply with any of the conditions of the permit, the permittee shall immediately notify the District Office of the D.E.R. as per Chapter 17-4.13, F.A.C. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement actions by the Department.
- () 7. According to the Process Weight Table within Chapter 17-2.04(2), F.A.C., the maximum allowable emission rate of particulate matter for a process rate of _____ tons/hour is _____ pound/hour. At lesser process rates, the allowable emission rates can be determined from the graph.
- () 8. This permit is associated with a Development of Regional Impact (D.R.I.). It does not waive any other permits that may be required from this or any other state, federal, or local agency.
- (X) 9. Issuance of this permit does not indicate an endorsement or approval of any other required permits by this Department.
- () 10. Incinerators shall comply with the provision of Chapter 17-2.04(6)(a), Florida Administrative Code, and Chapter 1-3.03 VI, A of the Hillsborough County Environmental Protection Commission Rules and Regulations.
- () 11. Incinerators shall not incinerate radioactive materials.

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For Routing To District Offices And/Or To Other Than The Addressee	
To: _____	Locn.: _____
To: _____	Locn.: _____
To: _____	Locn.: _____
From: _____	Date: _____

TO: P. David Puchaty

THRU: Dan Williams *Dan Williams*

FROM: George Richardson *George Richardson*

SUBJECT: Florida Power Corporation
Higgins Peaking Units #1,2,3,4

DATE: October 3, 1977

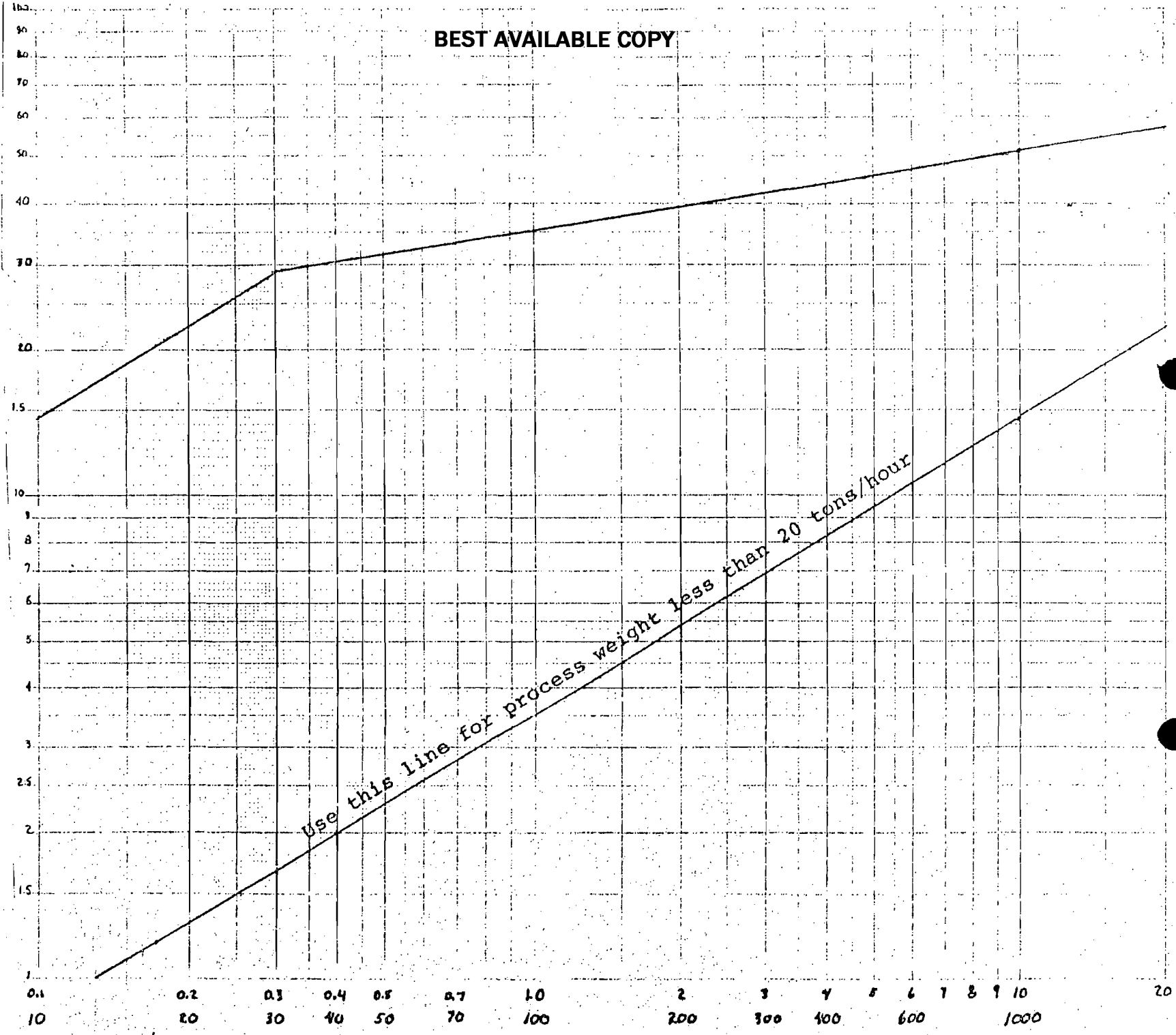
Florida Power Corporation has applied for a renewal of permit to operate their peaking units #1,2,3,4 located at their Higgins Plant in Oldsmar.

This source is used during peak periods when more electricity is needed, these units have no control equipment, they are fired with either natural gas or #2 fuel oil.

This source has passed the test requirement of 20% opacity. I, therefore, recommend a permit to operate be issued for a period of five years, with testing done annually.

BEST AVAILABLE COPY

POUNDS OF PARTICULATES



PROCESS WEIGHT TABLE

PROCESS WEIGHT TONS/HOUR

D.E.R.

SEP 12 1977

SOUTHWEST DISTRICT
TAMPA

9-12-77 LM
A052-5702

Department of Environmental Regulation

Application for Operation

Permit Renewal

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042
St. Petersburg, FL 33733

Current Permit Number A0 52-3120 P-1

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

5705

Type	Amount Consumed	% Sulfur
Natural Gas	73743 MCF	---
#2 Fuel Oil	4714 bbl	0.07

D. Production Rates

Type	Amount Produced
Electricity	6450 MWH

*January thru July, 1977

E. Normal Operating Time

- 1. Hours per ~~day~~ Month 34
- 2. Days per week _____
- 3. Weeks per year _____

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates _____
- 2. SO₂ _____
- 3. NO₂ _____
- 4. CO _____
- 5. Hydrocarbons _____

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77 Telephone No: (813) 866-4159

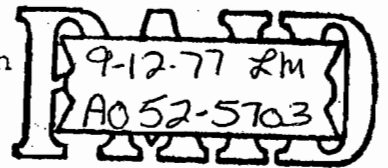
*Attach a letter of authorization



Department of Environmental Regulation

Application for Operation

Permit Renewal



(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042

St. Petersburg, FL 33733

Current Permit Number A052-3118 P-2

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
Natural Gas	24139 MCF	--
#2 Fuel Oil	14789 bbl	0.07

D. Production Rates

Type	Amount Produced
Electricity	6862 MWH

*January thru July, 1977

E. Normal Operating Time

1. Hours per ~~day~~ month

35

2. Days per week

3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of *Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159



*Attach a letter of authorization

Department of Environmental Regulation

Application for Operation

Permit Renewal

PAID
9-12-77 Jm
A052-5704

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042

St. Petersburg, Fl 33733

Current Permit Number A052-3119 P-3

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
Natural gas	121099 MCF	---
#2 Fuel Oil	2637 bbl	0.07

D. Production Rates

Type	Amount Produced
Electricity	9153 MWH

*January thru July, 1977

E. Normal Operating Time

1. Hours per ~~xxx~~ month

42

2. Days per week

3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment

N/A

The undersigned owner or authorized representative of *Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159



* Attach a letter of authorization

Department of Environmental Regulation

Application for Operation

Permit Renewal

PAID
9-12-77 AM
A052-5705

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042

St. Petersburg, FL 33733

Current Permit Number A052-2036 P-4

B. Raw Material Usage

Type	Amount Consumed
_____	_____
_____	_____
_____	_____
_____	_____

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural Gas</u>	<u>66888 MCF</u>	<u>--</u>
<u>#2 Fuel Oil</u>	<u>12411 bbl</u>	<u>0.07</u>
_____	_____	_____

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>9080 MWH</u>
_____	_____
_____	_____

*January thru July, 1977

E. Normal Operating Time

1. Hours per ~~QXX~~ month

39

2. Days per week

3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart

Signature of the Owner or Authorized Representative

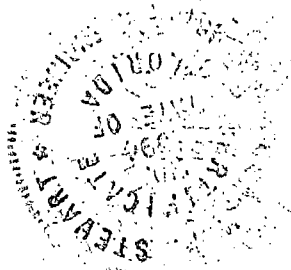
W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159

*Attach a letter of authorization





STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

OCTOBER 30, 1975
FLORIDA POWER CORPORATION
PINELLAS CO. AP

JOSEPH W. LANDERS JR.

SECRETARY

W. P. Stewart, Director Power Production
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-2036) dated 10/29/75 to ~~construct~~/operate the subject pollution source.

This permit will expire on 10/29/77 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "~~Construction~~/Operation Permit Conditions."

This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the Department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

J. H. Kerns, P.E.
Chief of Permitting

JHK/DAT/pm

cc: Central Files
File
Engineer

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

OPERATION PERMIT

FOR FLORIDA POWER CORPORATION

P.O. BOX 14042

ST. PETERSBURG, FLORIDA 33733

PERMIT NO. A052-2036

DATE OF ISSUE 10/29/75

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061(16) AND 403.707 OF CHAPTER 403 FLORIDA STATUTES AND CHAPTERS 17.4 AND 17.7 FLORIDA ADMINISTRATIVE CODE THIS PERMIT IS ISSUED TO:
W. P. Stewart, Director Power Production

FOR THE OPERATION OF THE FOLLOWING
Higgins Peaking Unit P-4, operating on Natural Gas, subject to attached conditions of approval numbers 1, 2, 3, 4, 5, 6, and 9.

LOCATED AT Oldsmar, Florida

UTM 17-336.5 East 3098.2 North

IN ACCORDANCE WITH THE APPLICATION DATED 9/9/75

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL 10/29/77

OR UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT.

J. A. Kerns
DISTRICT ENGINEER

Joseph W. Landers, Jr.
JOSEPH W. LANDERS, JR.
SECRETARY
Richard H. ...
DISTRICT MANAGER

OPERATION PERMIT CONDITIONS

FOR AIR POLLUTION SOURCES

Permit No.: A052-2036

Date: 10/29/75

- (X) 1. Fugitive dusts, odors and other pollutants from all sources shall be effectively controlled or eliminated by suitable means. (Chapter 17-2.04 (3)(4)(5))
- (X) 2. The pollution control equipment shall be maintained and operated in such a manner that all emissions will be in compliance with applicable rules and regulations of the DER. A log of maintenance activities shall be kept and available for DER review. (Chapter 17-2.03 (7))
- (X) 3. Report any problems encountered in the operation of the source that may result in discharge of pollutants in amounts higher than permitted herein. Cease operation forthwith unless permission has been obtained from the regional office of the DER to operate the source for an interim period. (Chapter 17-4.13)
- (X) 4. This permit is issued on the basis of the data submitted in the application and the existing requirements of this agency as set forth in Chapter 17-2 (revised January 18, 1972) Florida Administrative Code. The owner shall obtain written permission from the DER before making changes in the operation of the source (i.e. higher production rate, different raw materials and fuels, etc.) that may increase the quantity of pollutants or change their composition. (Chapter 17-2.01)
- (X) 5. This permit is not transferable. Upon the sale or legal transfer of the source covered by this permit, the new owner must apply by letter for a transfer of this permit within thirty days. (Chapter 17-4.12)
- (X) 6. Test the emissions for the following pollutant(s) at intervals of 6 months from the date of this permit and submit two copies of test results to the District engineer of this agency within fifteen days of such testing. (Chapter 17-2.07 (1))
- | | |
|-------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Plume Density | () Hydrocarbons |
- () 7. Provide such sampling and testing facilities as may be necessary for the proper determination of the nature and quantity of air pollutants emitted from this source. (Chapter 17-2.07)
- () 8. Identify the pollution source and/or control equipment by its manufacturer, model number, serial number, capacity, and any other pertinent information. Submit this information on or before
- (X) 9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceeding calendar year containing the following information:
- Annual amount of materials and/or fuel utilized.
 - Annual emissions.
 - Any changes in the information contained in the permit application.



**STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL**

APPLICATION TO OPERATE/CONSTRUCT POLLUTION SOURCES

**SECTION I - GENERAL INFORMATION FOR ALL POLLUTION SOURCES
I TO BE FILLED IN BY APPLICANT**

Source Type: Air Pollution
 Type application: Operation Temporary Operation Construction
 Status Source: New Existing Modification

Source Name: Higgins Peaking Unit P-4 County: Pinellas

Source Location: Street: P. O. Box J City: Oldsmar, FL 33557
 (Water Source Only) Lat: _____ ° _____ ' _____ " Long: _____ ° _____ ' _____ "
 (Air Source Only) UTM: East 336540 North 3098250

Appl. Name and Title: W. P. Stewart, Director, Power Production
 Appl. Address: P. O. Box 14042 C-4, St. Petersburg, FL 33733

II TO BE FILLED IN BY REGION (*BY BUREAU OF PERMITTING)

Control No: Region County Type *Project

Type Permit	Date Rec'd	*Permit No.	*Issue Date	*Compl. Date	*Exp. Date
_____	_____	_____	_____	_____	_____

Source Description: _____
 Control Equipment: _____

Water Permits

Receiving Body Code: _____ Surface Water Code: _____
 Station No.: Influent: _____ Effluent: _____

Effluent:	Average	Design	% Reduction
Flow rate, MGD	_____	_____	_____
BOD, lbs/day	_____	_____	_____
Susp. Sol., lbs/day	_____	_____	_____
Other: _____	_____	_____	_____

Air Permits

Operating Time: Continuous Intermittent
 Fuel: Type _____ M-BTU/hr. In Put _____
 Incinerator: Capacity, tons/day _____ Type Waste _____
 Mfg. & Model _____

Pollutant Emissions, lbs/day	Actual	Design	Allowable
Particulate	_____	_____	_____
Sulfur Oxides	_____	_____	_____
Other: _____	_____	_____	_____

Implementation: Estimated Appl. Filing Date _____
 Estimated Start of Const. _____ Estimated Compliance Date _____

DESCRIPTION OF PROPOSED PROJECT

- A. Describe the nature and extent of the proposed project. Refer to existing pollution control facilities, DPC permits, conditions, orders and notices, expected improvement in performance of the facilities and state whether the proposed project will result in full compliance of the source. Attach additional sheet if necessary.

N/A

- B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Federally or State Financed Projects only:

Planning Complete _____ N/A _____

Financing Program Complete _____

Indicate other local, state and/or federal agency approvals and dates _____

All projects:

Start of Construction _____

Completion of Construction _____

- C. Costs of Construction (Show a breakdown of costs for individual components/units of the proposed project serving pollution control purpose only). Information on actual costs shall be furnished with the application for operation permit.

N/A

- D. Indicate any previous DPC permits, issuance dates, and expiration dates.

DPC Permit No. A052-2036 issued 5-18-73, expires 7-1-75.

AIR POLLUTION SOURCES & CONTROL DEVICES

A. Identification of Air Contaminants

- 1) Particulates
 - a) Dust
 - b) Fly Ash
 - c) Smoke
 - d) Other (Identify)

- 2) Sulfur Compounds
 - a) SO_x as SO₂
 - b) Reduced Sulfur as H₂S
 - c) Other (Identify)

- 3) Nitrogen Compounds
 - a) NO_x as NO₂
 - b) NH₃
 - c) Other (Identify)

- 4) Fluorides
- 5) Acid Mist
- 6) Odor

- 7) Hydrocarbons
- 8) Volatile Organic Compounds

- 9) Other (Specify): _____

B. Raw Materials and Chemicals Used (Be Specific) N/A

Description	Utilization Tons/day, lbs./day, etc.	Approximate Contaminant Content		Relate to Flow Diagram
		Type	%Wt.	

C. Process Weight: N/A

- 1) Total Process Weight Rate _____ lbs./hr. [See Sec. 17-2.04(2)]
- 2) Product Weight _____ lb./hr. expressed as _____
- 3) Normal Operating Time _____, if seasonal describe: This unit will operate during peak periods of system demand.

D. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge Calc.	Discharge Criteria*	Allowable Discharge*	Relate Location to Flow Diagram
Particules	16 lb/day			
SO ₂	46 lb/day			

* Refer to Chapter 17-2 Florida Administrative Code
(Discharge Criteria: Process Weight Rate, #/tonP₂O₅, #/M BTU/hr etc.)

E. Control Devices: N/A

Name	Eff.	Conditions of Operation, Particle Size Range, etc.	Relate to Flow Diagram

F. Fuels:

Type (Be specific)	Daily Consumption	Heat Input BTU/hr.	Relate to Flow Diagram
Jet A, or	2539 Gal.	14×10^6	
Gas	1817 mcf.	77×10^6	

G. Describe briefly, without revealing trade secrets, the unit processes/operations generating the airborne emissions identified in this application: Fuel is burned in the combustion section to produce hot gases. These gases are used to drive the turbine which drives the generator.

H. Indicate liquid or solid wastes generated and method of disposal. N/A

STATEMENTS BY APPLICANT AND ENGINEER

A. Applicant

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for a renewal Operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W. P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: June 27, 1975 Telephone No.: (813) 866-4159

* Attach a letter of authorization

B. Professional Engineer Registered in Florida:

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the control and discharge of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution source(s) with appropriate control facilities, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the installation covered in this application.

Signature W.P. Stewart

Mailing Address: Florida Power Corporation
P. O. Box 14042 C-4
St. Petersburg, FL 33733
Telephone No.: (813) 866-4159

Name: W. P. Stewart
(please type)

Florida Registration Number 12594
(Please affix seal)

Date: June 27, 1975



If applicant is a corporation, a Certificate of Good Standing must be submitted with application.

This may be obtained, for a \$5.00 charge, from the Secretary of State, Bureau of Corporate Records, Tallahassee, Florida 32304.



Florida Department of Pollution Control
2562 Executive Center Circle East
Montgomery Building
Tallahassee, Florida 32301

Gentlemen:

Subject: Letter of Authorization

Please be advised that Mr. W. P. Stewart, Director, Power Production, is properly authorized to be the representative in matters relating to Applications for Permits to Operate Existing Air and Water Pollution Sources of Florida Power Corporation, as required by the Florida Department of Pollution Control.

Sincerely,

A handwritten signature in cursive script, appearing to read 'B. L. Griffin'.

B. L. Griffin
Vice President

BLG:cb

S T A T E O F F L O R I D A

OFFICE OF SECRETARY OF STATE

I, Bruce A. Smathers, Secretary of State of the State of Florida, do hereby certify that the records of this office indicate that FLORIDA POWER CORPORATION (the "Company"), a corporation organized under the Laws of the State of Florida on July 18, 1899, has filed instruments in this office affecting its Charter as follows:

- (a) A Composite Certificate of Reincorporation, as amended through June 16, 1966 (with Appendix consisting of Items A, B and C), containing only such provisions as were in effect as of such date;
- (b) On March 31, 1970, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (c) On November 12, 1970, certified copy of a Resolution duly adopted by its Board of Directors on November 5, 1970, creating and establishing an 8.80% Series of Cumulative Preferred Stock;
- (d) On April 2, 1971, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (e) On April 4, 1972, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (f) On June 8, 1972, a certified copy of a Resolution duly adopted by its Board of Directors on June 1, 1972, creating and establishing a 7.40% Series of Cumulative Preferred Stock;
- (g) On December 11, 1973, a certified copy of a Resolution duly adopted by its Board of Directors on December 4, 1973, creating and establishing a 7.76% Series of Cumulative Preferred Stock;
- (h) On April 1, 1974, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company; and
- (i) On June 18, 1974, a certified copy of a Resolution duly adopted by its Board of Directors on June 10, 1974, creating and establishing a 10% Series of Cumulative Preferred Stock.

I do hereby further certify that (i) no Amendments to the Composite Certificate of Reincorporation (other than as mentioned above) have been filed by the Company; (ii) the Company has complied with the requirements of Chapter 28170, Laws of Florida, Acts of 1953, as amended, and has paid in full its corporation capital stock taxes thereunder; and (iii) the Charter of the Company remains in full force and effect.

GIVEN under my hand and the Great Seal of
the State of Florida, at Tallahassee,
the Capital, this the 12th day of March,
A.D., 1975.



Bruce A. Smathers
SECRETARY OF STATE



DEPARTMENT OF POLLUTION CONTROL

SUITE 300, TALLAHASSEE BANK BUILDING

315 SOUTH CALHOUN STREET, TALLAHASSEE, FLORIDA 32301

VINCENT D. PATTON
EXECUTIVE DIRECTOR

May 21, 1973
Pinellas County - AP
Fla. Power Corp. (Higgins Plt.)

DAVID H. LEVIN
CHAIRMAN

Mr. G. W. Marshall, Prod. Supt.
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Marshall:

Pursuant to your application, please find enclosed a permit (NoA052-2036)
dated 5/18/73 to operate the subject pollution source.

This permit will expire on 7/1/75 in accordance with your compliance
schedule, and will be subject to the conditions, requirements and restrictions
checked or indicated otherwise in the attached sheet Operation Permit Conditions.

This permit is issued under the authority of Florida Statutes 403.061 (16),
Department Rule 17-4.08 and in order to comply with section 51.15 (a)(1), 40
CFR 51 Environmental Protection Agency. The time limits imposed herein are
a condition to this permit and are enforceable under Florida Statute 403.161.
You are hereby placed on Notice that the Department will review this permit
before the scheduled date of expiry and will seek court action for violation
of the conditions and requirements of this permit.

Your continued cooperation in this matter is appreciated and in future communication
please refer to your permit number.

Yours very truly,

L. G. Kerner, P.E.
Regional Engineer
West Central Region

LGK/pm /BG/pcd
cc: Bates Fountain

This Permit Expires on 7/1/75
STATE OF FLORIDA

DEPARTMENT OF AIR AND WATER
POLLUTION CONTROL

OPERATION PERMIT

FOR Florida Power Corporation
P.O. Box J
Oldsmar, Florida 33557

PERMIT NO. AO 52-2036

DATE 5/18/73

PURSUANT TO THE PROVISIONS OF SECTION 403.061 (16) OF CHAPTER 403 FLORIDA STATUTES AND CHAPTER 17-4 FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO Mr. G. W. Marshall, Production Superintendent

FOR THE OPERATION OF THE FOLLOWING:

Higgins # 4, 5, 6, 7, Electric Utility Peaking Units

LOCATED AT: Shore Drive, Oldsmar, Pinellas Co., Florida

UTM 17336540 E -- 3098250 N

IN ACCORDANCE WITH THE APPLICATION DATED March 3, 1971

AND IN CONFORMITY WITH THE STATEMENTS AND SUPPORTING DATA ENTERED THEREIN, ALL OF WHICH ARE FILED WITH THE DEPARTMENT AND ARE CONSIDERED A PART OF THIS PERMIT.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ITS ISSUANCE UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT. or until 7/1/75, whichever is earlier

DAVID H. SCOTT, CHIEF
BUREAU OF PERMITTING

L. G. Kerner
L. G. Kerner, P.E.
REGIONAL ENGINEER
WEST CENTRAL REGION

VINCENT D. PATTON
EXECUTIVE DIRECTOR

OPERATION PERMIT CONDITIONS

FOR AIR POLLUTION SOURCES

(Excluding Incinerators and Fossil Fuel Steam Generators)

Pinellas Co. AP
Fla. Power Corp. (Higgins Plant)

REVISED

Permit No. A052-2036 Peaking Units 4 5,6 & 7 Date: 7/30/73

- [X] 1. Fugitive dusts and other pollutants from all sources shall be effectively controlled or eliminated by suitable means. [Chapter 17-2.04(3)]
- [X] 2. The pollution control equipment shall be maintained and operated in such a manner that all emissions will be in compliance with applicable rules and regulations of the DPC. [Chapter 17-2.03(7)]
- [X] 3. The density of visible emissions for existing sources, until July 1, 1975, shall not exceed a Ringelmann Number Two or an equivalent 40% opacity. The density of visible emissions for all sources after July 1, 1975, shall not exceed a Ringelmann Number One or an equivalent 20% opacity. If the presence of uncombined water is the only reason for failure to meet these visible emissions standards, such a failure shall not be in violation of this rule. [Chapter 17-2.04(1)(a)(b)(d)]
- [X] 4. Report any problems encountered in the operation of the source that may result in discharge of pollutants in amounts higher than permitted herein. Cease operation forthwith unless permission has been obtained from the regional office of the DPC to operate the source for an interim period. [Chapter 17-4.13]
- [X] 5. This permit is issued on the basis of the data submitted in the application and the existing requirements of this agency as set forth in Chapter 17-2 (revised January 18, 1972) Florida Administrative Code. The owner shall obtain written permission from the DPC before making changes in the operation of the source (i.e. higher production rate, different raw materials and fuels, etc.) that may increase the quantity of pollutants or change their composition. [Chapter 17-2.01]
- [X] 6. This permit is not transferable. Upon the sale or legal transfer of the source covered by this permit, the new owner must apply by letter for a transfer of this permit within thirty days. [Chapter 17-4.12]
- [X] 7. Test the emissions for the following pollutant(s) at intervals of annually from the date of this permit and submit four copies of test results to the regional engineer of this agency within fifteen days of such testing. [Chapter 17-2.07(1)]
 - [] Particulates
 - [] Fluorides
 - [X] Plume Density
 - [] Sulfur Oxides
 - [] Nitrogen Oxides
 - [] Hydrocarbons
- [X] 8. Air pollutants which cause or contribute to an objectionable odor shall be effectively controlled or eliminated by suitable means. [Chapter 17-2.04(4)]
- [] 9. Provide such sampling and testing facilities as may be necessary for the proper determination of the nature and quantity of air pollutants emitted from this source. [Chapter 17-2.07]
- [] 10. Identify the pollution source and/or control equipment by its manufacturer, model number, serial number, capacity, and any other pertinent information. Submit this information on or before

[] 11. According to the Process Weight Table in revised Chapter 17-2 (revised 1/18/72) your maximum allowable emission rate for a process rate of _____ is _____. This facility, therefore, must be modified, upgraded, or eliminated in order to insure compliance with Chapter 17-2.

[] 12. Submit on or before _____ a schedule indicating what steps have been or will be taken to insure compliance with Chapter 17-2 (revised 1/18/72).

OPERATION AND MAINTENANCE CONDITIONS
FOR AIR POLLUTION SOURCES

(An "X" indicates applicable conditions)

DATE: 5/18/73

AO 52-2036 PERMIT NO.

- () 1. The density of visible emissions for existing sources, until July 1, 1975, shall not exceed a Ringelmann Number Two or an equivalent 40% opacity. The density of visible emissions for all sources after July 1, 1975, shall not exceed a Ringelmann Number One or an equivalent 20% opacity. If the presence of uncombined water is the only reason for failure to meet these visible emissions standards, such a failure shall not be in violation of this rule. (Chapter 17-2.04 (1) (a) (b) (d))
- (X) 2. Test the emissions for the following pollutant(s) at intervals of annually from the date of this permit and submit four copies of test results to the regional engineer of this agency within fifteen days of such testing. (Chapter 17-2.07(1))
- | | |
|--------------------|---------------------|
| (x) Particulates | (x) Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| () Plume Density | () Hydrocarbons |
- (X) 3. According to revised Chapter 17-2 (Revised 1-18-72), this facility must be modified, up graded, or eliminated in order to comply with applicable emission limitations. * To insure compliance pursuant to the time limitation specified in Section 17-2.03(2), Chapter 17-2, Florida Administrative Code, the following steps toward compliance are made a condition of this permit.
- (A) Submit on or before 9/1/73 a final control plan for complying with Chapter 17-2, Florida Administrative Code. This plan is subject to approval by the regional office.
- (B) Submit on or before 4/1/74 a copy of contract(s) for modification/control equipment and/or fuels necessary to comply with Chapter 17-2.
- (C) On or before 7/7/74, construction and/or modification must be initiated. Submit 60 days prior to this date construction permit applications and necessary information.
- (D) Construction and/or modifications toward compliance must be completed by 9/1/74. Submit no later than 10/1/74 confirmation of this condition.
- (E) Submit on or before 7/1/75 proof of compliance. This must include any changes in the construction permit application as submitted, and a final engineering report and stack sample to prove compliance. (test results and/or calculations)
- * The applicable emission limitation for this facility is:
17-2.04 Section 6 (e) 2 C Chapter 17-2, Florida Administrative Code.
- (X) 4. Submit for this facility, each calander year, on or before March 1, an emission report for the preceding calander year containing the following information.
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions.
- (C) Any changes in the information contained in the permit application.

RECEIVED



MAR 1 1971.
DEPT. OF A.W.P.C.
WEST CENTRAL REGION
WINTER HAVEN

State of Florida
Department of Air and Water Pollution Control

Application For Permit to Operate Air Pollution

~~XXXXXXXXXXXX~~

Source

Applicant (Owner or authorized agent) G. W. Marshall, Production Superintendent
(Name and Title) (Higgins Peaking)

Name of Establishment Florida Power Corporation Units #4, #5, #6, #7
(Corporation, Company, Political SD, Firm, etc.)

Mailing Address P. O. Box J, Oldsmar, Fla. 33557

Location of Pollution Source Shore Drive, Oldsmar, Fla.
(Number and Street) (City)

3098250 m N
336540 m E

Pinellas
(County)

Nature of Industrial Operation Electric Utility

Permit Applied For Operating:

Project Engineer:

- New Source
- Existing Source
- Existing Source after modification
- Existing Source after Expansion
- Existing Source After relocation, expansion or reconstruction

G. W. Marshall
Name (Higgins Peaking)

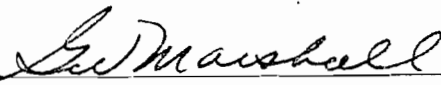
Florida Power Corporation Units #4, #5, #6, #7
Firm

P. O. Box 14042, St. Petersburg, Fla. 33733
Mailing Address

G. W. Marshall
Signature

6008
Florida Registration Number

The undersigned ~~XXXXXX~~ authorized representative° of Florida Power Corporation is fully aware that the statements made in this form and the attached exhibits and statements constitute the application for a Operating Permit from the Florida Department of Air and Water Pollution Control and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that the Permit is non transferable and, if granted a permit, will promptly notify the Department upon sale or legal transfer of the permitted establishment.


Signature of ~~XXXXXX~~ agent.

G. W. Marshall, Production Superintendent
Name and Title

Date: March 3, 1971

°Attach letter of authorization.

FLORIDA POWER CORPORATION

ST. PETERSBURG FLORIDA

February 18, 1971

RECEIVED

MAR 1 1971

DEPT. OF A.W.P.C.
WEST CENTRAL REGION
WINTER HAVEN

Florida Department of
Air and Water Pollution Control
Suite 300, Tallahassee Bank Building
315 South Calhoun Street
Tallahassee, Florida 32301

Subject: Letter of Authorization

Gentlemen:

Please be advised that Mr. George W. Marshall, Production Superintendent, is properly authorized to be the representative in matters relating to Applications for Permits to Operate Existing Air and Water Pollution Sources of Florida Power Corporation, as required by the Florida Department of Air and Water Pollution Control.

Very truly yours,

FLORIDA POWER CORPORATION

A. J. Ormston
A. J. Ormston
Vice President

AJO:Bjh

**Information Regarding Pollution Sources
and ~~Process~~ Control Facilities**

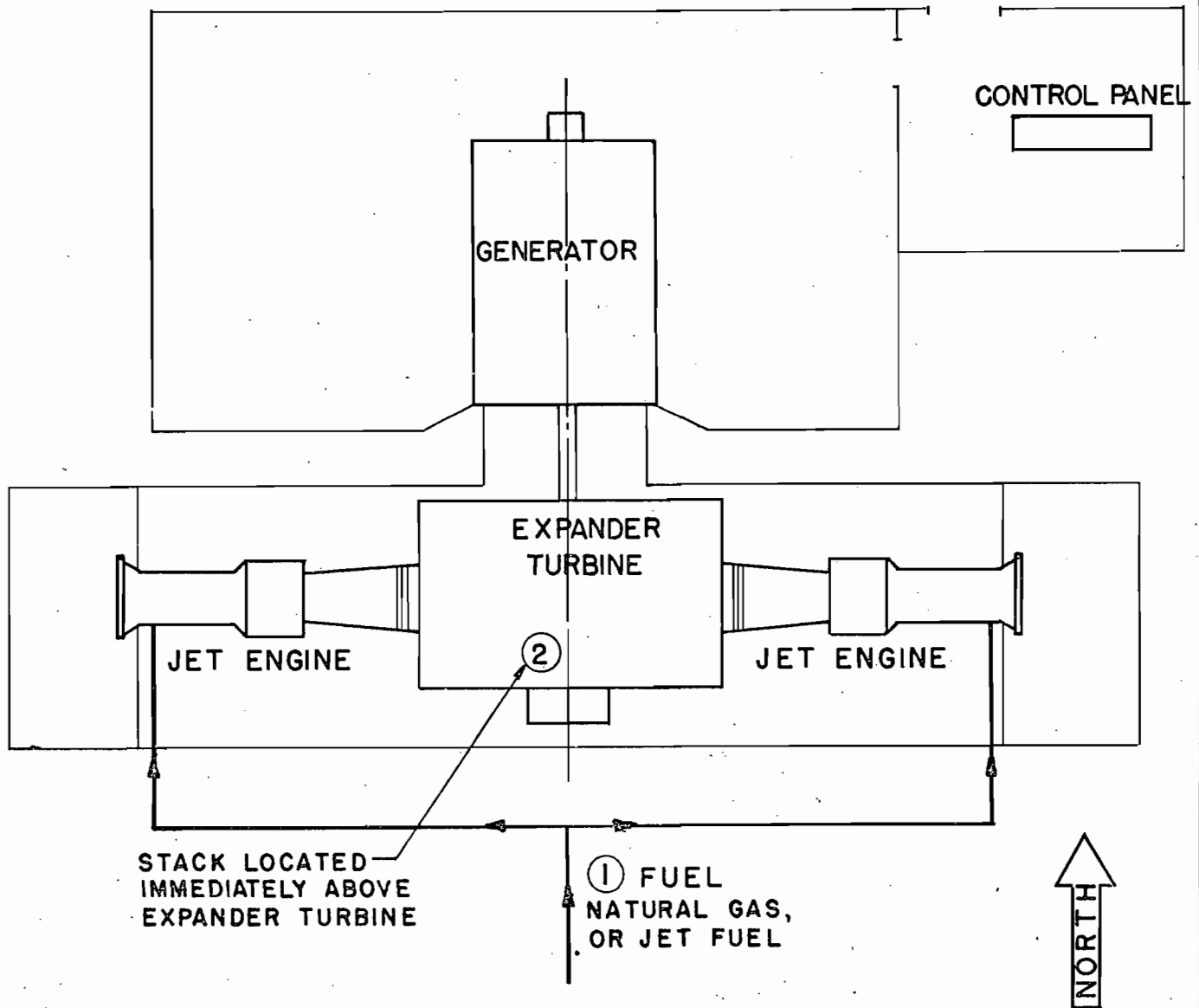
1. Estimated cost of ~~XXXXXX~~ control facilities \$ N/A .
2. Prepare and attach an 8½" x 11" flow diagram, without revealing trade secrets, identifying the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particulates are evolved and where finished products are obtained.
3. Include an 8½" x 11" plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Relate all flows to the flow diagram.
X
4. Submit an 8½" x 11" plot plan showing the exact location of the establishment and points of discharge in relation to the surrounding area, residences and other permanent structures and roadways. (USGS Map)
X

I General

A. Raw Materials and Chemicals Used.

Description	Utilization Tons/day, Lbs./day, etc.	Approximate Contaminant Content		Relate to Flow Diagram
		Type	Percent Dry Weight	
N/A	N/A	N/A	N/A	N/A

WORTHINGTON PEAKING PLANT



NO.	DATE	REVISION	BY	CK.	APP.

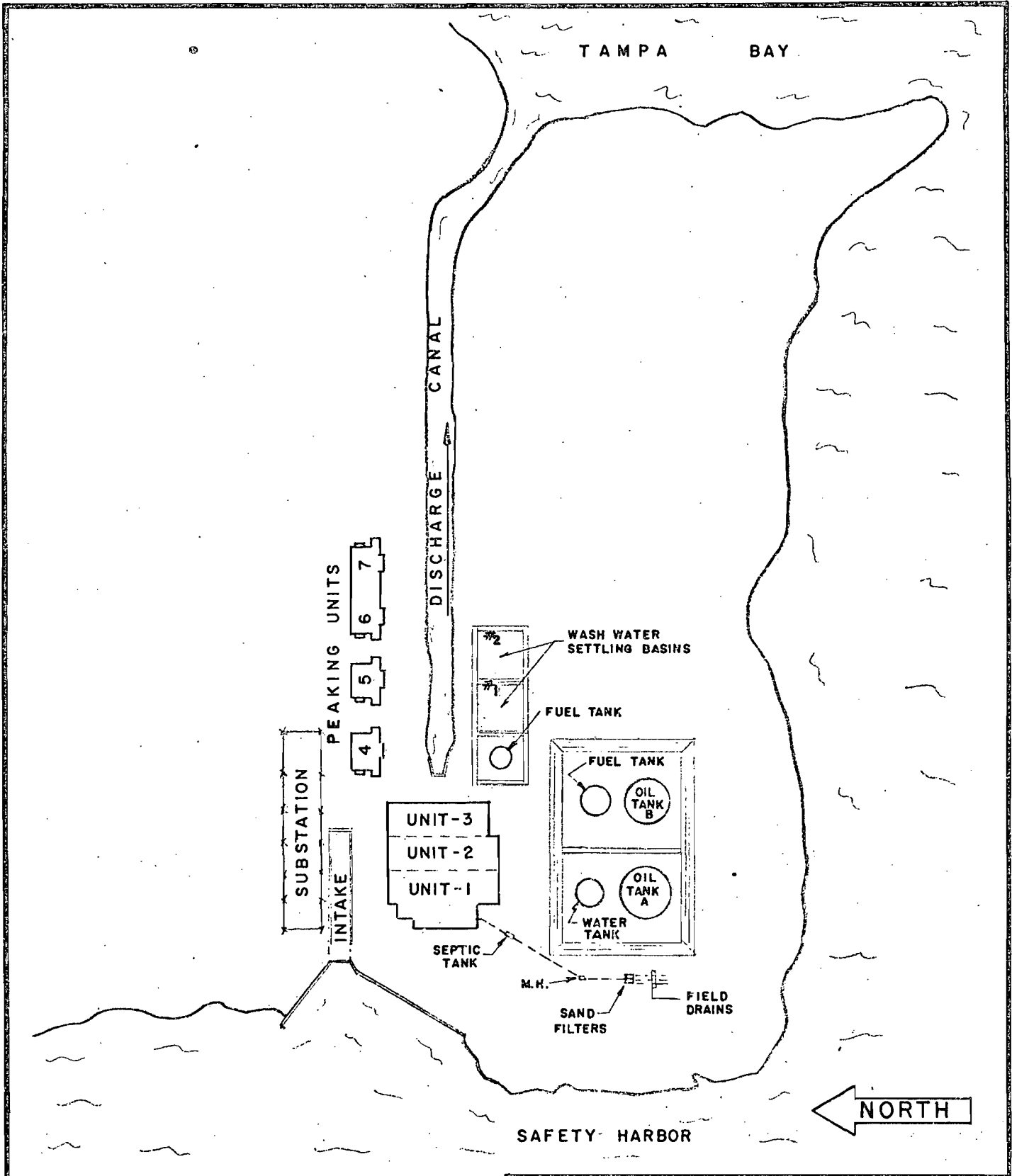
PEAKING PLANT LAYOUT

PROJECT HIGGINS PLANT

FLORIDA POWER CORPORATION
ST. PETERSBURG, FLORIDA

DATE 2-5-71 SCALE NONE BY HKS CK. SP APP. JM

DRAWING NO. A-112-H



NO.	DATE	REVISION	BY	CK.	APP.

DATE 2/15/71 SCALE NONE BY IFG CK BPH APP.

KEY PLAN

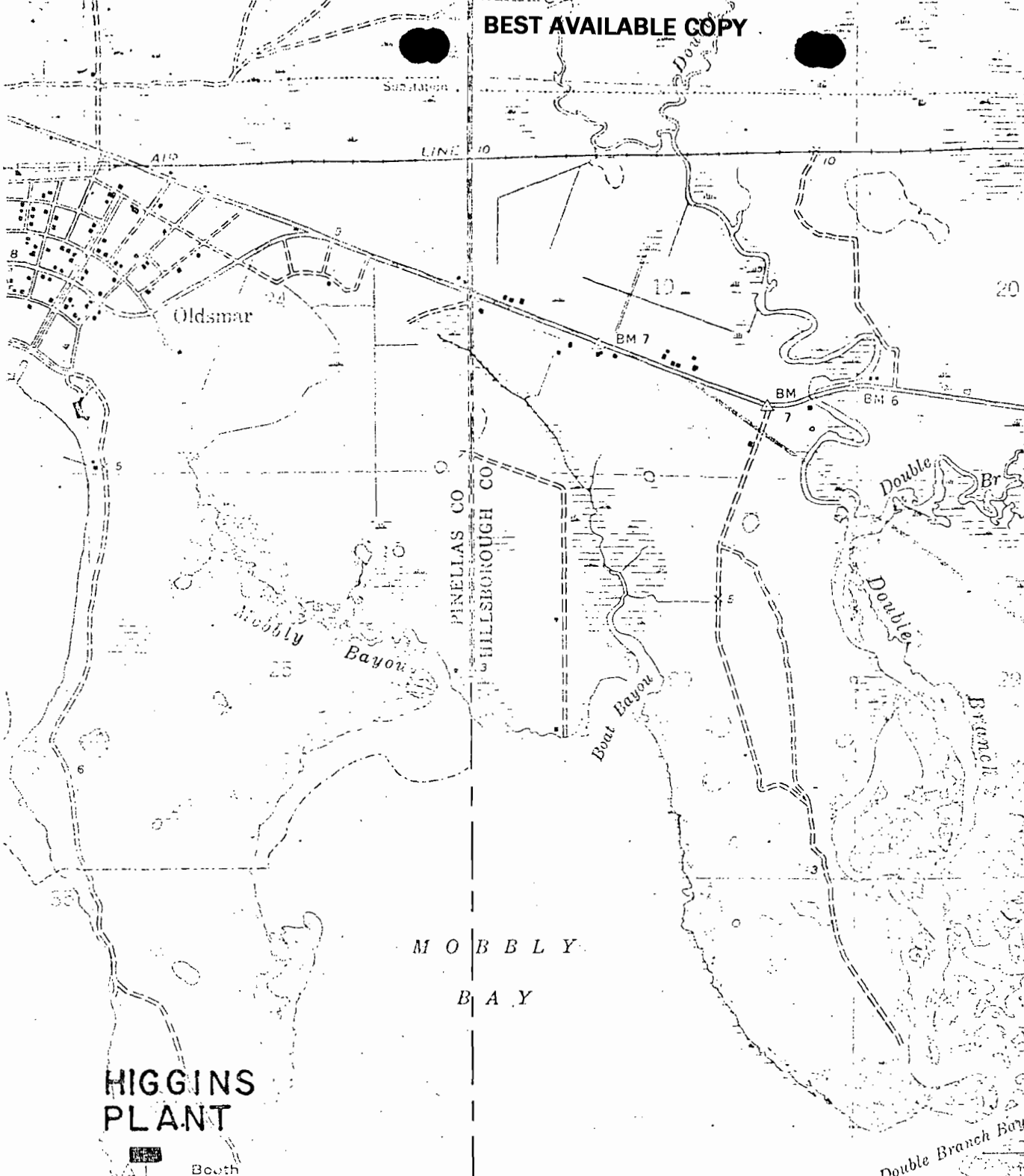
PROJECT HIGGINS PLANT

FLORIDA POWER CORPORATION
ST. PETERSBURG, FLORIDA

DRAWING NO. A - III - H

BEST AVAILABLE COPY

2'30"



M O B B L Y
B A Y

HIGGINS
PLANT

Booth
Pt

U.S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 1961
M R-031

3400000m. E. 28°00' 82°37'50"

3099000m. N.

7.9 MI. TO U.S. 97
DREW FIELD 8.6 MI.

ROAD CLASSIFICATION 1949

- Heavy-duty
- Medium-duty
- Light-duty
- Unimproved dirt
- U. S. Route
- State Route



QUADRANGLE LOCATION

OLDSMAR, FLA.
N 2800-W 8237.5/7.5

1943

(GANDY BRIDGE)

B. Fuels

Type (Be Specific)	Daily Consumption	Gross Maximum Heat Output	Relate to Flow Diagram
<input checked="" type="checkbox"/> Jet A or Gas	2,539 Gal/Day 1,817 mcf/Day	338,347,140 Btu/Day 1,863,333,500 Btu/Day	1
N/A	N/A	N/A	N/A

C. Products

Description	Average Daily Production (Tons/Day, Lbs/Hr. etc.)
Electricity	138 MWH/Day

D. Normal operation: Hours/Day _____ Day and Week _____

If operation or process is seasonal, describe: These units are operated only during peak periods of system demand.

II Identification of Air Contaminants.

Compounds of:

Also --

- | | | | | | |
|----------|-------------------------------------|--------------|-------------------------------------|---------------|--------------------------|
| Chlorine | <input type="checkbox"/> | Hydrocarbons | <input type="checkbox"/> | Acid Mists | <input type="checkbox"/> |
| Flourine | <input type="checkbox"/> | Smoke | <input type="checkbox"/> | Odors | <input type="checkbox"/> |
| Nitrogen | <input type="checkbox"/> | Fly Ash | <input checked="" type="checkbox"/> | Radioisotopes | <input type="checkbox"/> |
| Sulfur | <input checked="" type="checkbox"/> | Dusts | <input type="checkbox"/> | Other _____ | <input type="checkbox"/> |

Specific Compounds: SO_x

III Air Pollution Control Devices

Contaminant	Control Device	Relate to Flow Diagram	Operating Efficiency	Conditions (Particle Size Range, Temp. etc.)
Fly Ash	Stack	2	N/A	850 ⁰ F @ 93 Ft/Sec
SO _x	Stack	2	N/A	N/A

Provide a brief description of the control device or treatment system. Attach separate sheets giving details regarding principle of operation, manufacturer, model, size, type and capacity of control/treatment device and the basis for calculating its efficiency. Show any bypasses of the control device and specify when such bypasses are to be used and under what conditions.

N/A

IV. Contaminant Balance

From contaminant content in raw materials, waste products, and manufactured products, summarize daily contaminant flow:

	Pounds Contaminant per Day (AVG)	
	Input	Output
List XXXXXXXXXX Fuel: Fuel Sulfur	17 Lbs/Day	
List Manufactured Products: Electricity	N/A	N/A
List Solid Wastes:		0
List Liquid Wastes: N/A		
Totals	17 Lbs/Day	0
Airborne Wastes (Total input minus total output) 17 Lbs/Day		

Note: If more than one contaminant, specify each
 Contaminants recovered in control devices should be shown as either a liquid or a solid waste.

V. Discharged Emmissions to Atmosphere

A. Discharge Points and Design Conditions

Discharge Point Description	Relate to Flow Diagram	Height above Ground (ft.)	Exit Cross Sect. Area (sq. ft.)	Periods of Flow Hrs./ Day	Temp. of Discharge (°F)
Stack (4)	2	54.5	4 - Stacks Each 178	XXXXX XXXXX Not Predictable	850°F

B. Tabulation of Discharged Contaminants (Calculated values)

Total Contaminants Discharged

Discharge Point - Relate to Flow Diagram	Flow Rate at Std. Cond. (cfm)	Particulates		Other Contaminants (F ⁻ , SO _x , NO _x etc.)			
		Gr/ft3 (Std.Cond.)	lbs./ Day	Gr/ft3 (Std. Cond.)	lbs/ Day	Gr/ft3 (Std.Cond)	lbs/ Day
Average Conditions) Stack (4)	4,000,000	.0013	64	SO _x .039	184		
	(State Std. Cond. Used)						
	850°F, 29.92" Hg						
Peak Emission Condition and Frequency (Emergency Condition Only)) Stack (4)	4,800,000	.0015	N/A	SO _x .041	N/A		
Totals							

**VI. Treatment and Disposal of Liquid and
Solid Waste**

1. Identify the contaminants which will be discharged as liquid or solid wastes.

None

2. Describe the treatment and disposal of liquid and solid wastes. Indicate the concentrations and volume of individual contaminants in treated wastes before disposal.

There is no retained Ash on this unit.

MEMORANDUM

TO: FILE

THROUGH: BILL THOMAS, P.E. *WTT 10/20/93*

THROUGH: HARRY KERNS, P.E. *JK*

FROM: GEORGE RICHARDSON *GR*

DATE: October 20, 1993

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Units 1, 2, 3 & 4
Permit Amendments
AO52-216420, 216421, 216422 & 216423

These permit amendments are for the four peaking units at the Higgins Plant located at Booth Road, Oldsmar, Pinellas County.

The first amendment is to Specific Condition No. 3, change test this unit for VE if it operated on oil for more than 120 hours to test for VE if this unit operated on oil for more than 400 hours.

The second amendment is to Specific Condition No. 5, change testing must be accomplished within 90-100% of the maximum permitted rate, to testing shall be conducted in accordance with the submitted graph for each unit of maximum heat input versus ambient temperature. This testing procedure was blessed by Preston Lewis as representative of the true operation of the peakers.

The third amendment is to Specific Condition No. 8 which changes the way the fuel oil is monitored.

The fourth amendment is to add Specific Condition No. 10 which sets the maximum potential emission rate for each unit.

The fifth amendment is to add Specific Condition No. 11.

The sixth amendment is to add Specific Condition No. 12 which gives the emission factors to calculate annual emissions for the AOR.

The PCDEM, FPC and I are in agreement on the amendments at this time.



**Florida
Power**
CORPORATION

file
no files

November 30, 1992

DEC 02 1992

Mr. Jeff Braswell, Esq.
Office of General Counsel
Florida Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, FL 32399-2400

DEC 02 1992

SOUTHWEST DISTRICT TAMPA

Dear Mr. Braswell:

Re: Higgins Peaking Units Renewal Permits
(Permit Nos. A052-216421, -216422, -216423, -216424)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Because of the Thanksgiving holiday, not all affected parties at FPC have had sufficient time to fully review the permits. Therefore, in accordance with Rule 17-103.070, FPC respectfully requests an extension of the time in which to file for a petition for an administrative hearing, up to and including January 29, 1993. Mr. Harry Kerns of FDER has been contacted regarding this request and has given his concurrence.

Thank you for your consideration of this request. Please contact Mr. Mike Kennedy of my staff at (813) 866-4344 if you have any questions.

Sincerely,

W. Jeffrey Pardue, for

W. Jeffrey Pardue, Manager
Environmental Programs


cc: ~~Mr. Harry Kerns, FDER~~
Mr. Gary Robbins, Pinellas County
Mr. Albert W. Morneault, P.E.

MEMORANDUM

TO: File

THRU: W. C. Thomas, P.E.

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardson 

DATE: November 10, 1992

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Unit No. 2
A052-216421

This permit is for the operation of Higgins Peaking Unit No. 2 located at Booth Road, Oldsmar, Pinellas County.

This unit consists of two Pratt & Whitney jet engines. This unit is fired on natural gas or new No. 2 fuel oil.

This unit was tested for visible emissions while firing natural gas on January 7, 1992 and it was in compliance.

Received verbal OK from the PCDEM to issue permits.

I recommend this permit be issued as conditioned.

PERMIT APPLICATION FEE/ASSIGNMENT SHEET

APPLICATION TYPE AD (Renewal) FILE/PROCESSING NO. A 052 - 216421
 COMPANY Florida Power Corp. COUNTY Pinellas
 SOURCE DESCRIPTION/COMMENTS Higgins Peaking Unit 2
 DATE APPL. REC'D (Day 1): 7/16/92
 CHECK ATTACHED: Y N APPLICATION SUB TYPE CODE 00 ~~78~~
 Not Required (X) Similar Source
 FEE SUBMITTED: (✓) correct () incorrect - Should Be \$ 0
 Submitted \$- 0
 Needed/Refund \$ 7
 FEE CHECKED BY: [Signature] DATE 7/17/92
 APPLICATION ASSIGNED TO: _____ DATE _____

PERMIT APPLICATION PROCESSING STATUS

*10 Days to go as 11/10
 Issue by 11/20/92*

	<u>Completed</u>	<u>Initials</u>
Date PATS Updated With Processor Name:	_____	_____
Date AC Logged By Section Secretary:	_____	_____
Permit Engineer Submit Finished Permit Package & Recommendations to District Air Engineer:	<u>11-10-92</u>	<u>[Signature]</u>
Permit Package to District Air Administrator:	_____	_____
Permit Package to Director of District Management:	<u>11/10/92</u>	<u>[Signature]</u>
Permit Package Mailed Out:	<u>NOV 13 1992</u>	<u>[Signature]</u>

DATA FOLLOW UP

Issue Date Updated on PATS: NOV 13 1992 [Signature]
 Updated on Wang: _____

APPLICATION TRACKING SYSTEM

NOV 13 1992

07/20/92

APPL NO:216421

APPL RECVD:07/16/92 TYPE CODE:AD SUBCODE:00

LAST UPDATE:07/20/92

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___

APPLICATION COMPLETE:___/___/___

DER PROCESSOR: AIR *R. Anderson*

APPL STATUS:AC DATE:07/16/92 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING

DISTRICT:40 COUNTY:52

(Y/N) N DGC HEARING REQUESTED

LAT/LONG:28.00.08/82.39.49

(Y/N) N PUBLIC NOTICE REQD?

BASIN-SEGMENT:___

(Y/N) N GOV BODY LOCAL APPROVAL REQD?

COE #:_____

(Y/N) Y LETTER OF INTENT REQD? ___ (I/ISSUE D/DENY)

ALT#:_____

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 2

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:_____

PHONE:_____

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:_____

STREET:_____

CITY:_____

STATE:_____

ZIP:_____

PHONE:_____

FEE #1 DATE PAID:___/___/___ AMOUNT PAID:NOFEE RECEIPT NUMBER:_____

B	DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE	- - - - -	1/1/92
C	DATE DER SENT DNR APPLICATION/SENT DNR INTENT	- - - - -	1/1/92
D	DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP.	- - - - -	1/1/92
E	DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	8/13/92-8/24/92
E	DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	1/1/92
E	DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	1/1/92
E	DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	1/1/92
E	DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	1/1/92
E	DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - - - -	1/1/92
F	DATE LAST 45 DAY LETTER WAS SENT	- - - - -	1/1/92
G	DATE FIELD REPORT WAS REQ--REC	- - - - -	1/1/92
H	DATE DNR REVIEW WAS COMPLETED	- - - - -	1/1/92
I	DATE APPLICATION WAS COMPLETE	- - - - -	8/24/92
J	DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS	- - - - -	1/1/92
K	DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT	- - - - -	1/1/92
L	DATE PUBLIC NOTICE WAS SENT TO APPLICANT	- - - - -	1/1/92
M	DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED	- - - - -	1/1/92
N	WAIVER DATE BEGIN--END (DAY 90)	- - - - -	1/1/92

COMMENTS:



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

August 13, 1992

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

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
Permit Renewal
A052-216420, A052-216421, A052-216422 &
A052-216423

Dear Mr. Pardue:

On July 16, 1992 the Department received applications to renew the operating permits for Gas Turbine Peaking Units 1 thru 4 at the Higgins Plant located on Booth Road, Oldsmar, Pinellas County. Pursuant to Rules 17-4.055(1), 17-4.070(2), F.A.C., the Department requests submittal of the following additional information:

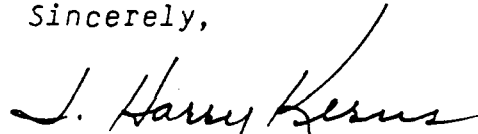
1. The renewal applications for Higgins Peaking Units 1 thru 4 were not submitted under the signature and seal of a professional engineer registered in the State of Florida. In accordance with Rule 17-4.050(3), All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except when the application is for renewal of an air pollution operation permit at a minor facility as defined in Rule 17-2.100(133), F.A.C., as amended and renumbered on 12-31-91. Enclosed is a memo from Mr. Clair Fancy, Bureau Chief of the Department's Bureau of Air Regulation, Tallahassee, stating that the Department should require the seal and signature of a professional engineer on air pollution applications for construction permits, operating permits, and renewals submitted by public utilities.

"NOTICE: Pursuant to the provisions of Section 120.600, F.S. and Rule 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration.

Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

Please resubmit the renewal applications for Peaking Units 1 thru 4 at the Higgins Plant with the professional engineer certifications. Please note on the resubmitted applications "No Fee Required". Your applications to renew the operating permits are being held as incomplete until the professional engineer certified renewal applications are received. If you have any questions, please call George Richardson of my staff at (813)620-6100, extension 420.

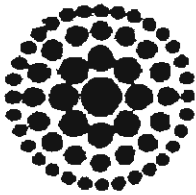
Sincerely,



J. Harry Kerns, P.E.
District Air Engineer
Southwest District

4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
(813)620-6100, ext. 419

cc: Pinellas County Department of Environmental Management

*[Handwritten signature]*

Florida
Power
CORPORATION

D.E.R.

JUL 15 1992

SOUTHWEST DISTRICT TAMPA

July 14, 1992

Dr. Richard Garrity
Florida Department of Environmental Regulation
Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Dear Dr. Garrity:

Re: Renewal of Air Operating Permits For Higgins Plant Steam and Peaking Units
Permit Nos. AO52-137124, -137125, -137126, -137554, -137555, -137556, & -137557

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Air Quality Division, dated May 27, 1992, providing notification that the above-referenced permits are due to expire on September 16, 1992. The renewals requested include all permitted sources at the Higgins Plant site-- three steam units and four peaking units.

Enclosed are permit renewal applications (three copies of each) for peaking units P1 through P4 and steam units 1 through 3. As reflected in the attached applications, FPC requests the following changes:

- o Correct the Unit 1 heat input rate. The value should be changed from 544 MMBTU/hr to 548 MMBTU/hr.
- o Correct the Unit 2 heat input rate. The value should be changed from 500 MMBTU/hr to 523 MMBTU/hr.
- o Correct the Unit 3 heat input rate. The value should be changed from 512 MMBTU/hr to 548 MMBTU/hr.
- o The Unit 2 annual test date should be changed from July 21, 1986 to May 5, 1992.

over

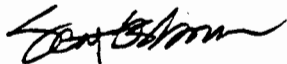
Dr. Garrity
July 14, 1992
Page 2

- o The Unit 3 annual test date should be changed from July 30, 1986 to May 7, 1992.

The corrected heat input rates are simply a product of the maximum allowable fuel usage rates (87 bbl/hr, 83 bbl/hr and 87 bbl/hr for units 1, 2 and 3, respectively) and the heating value of the fuel (150,000 BTU/gal or 6.3 MMBTU/bbl). FPC has not modified the units and is not requesting a change in the fuel feed rate; the intent is to correct an error in calculation. The reason for the change in the annual test dates is to allow a more even distribution of testing the units within our system. Since peaking units P1 through P4 are substantially similar, FPC requests that the peaking unit air permits be combined and issued as one. Similarly, FPC requests that the steam unit permits also be combined. Accordingly, two checks for \$2,000 each are enclosed to cover the respective processing fees.

If you should have any questions or require clarification of the above, please do not hesitate to contact me at (813) 866-5158.

Sincerely,



Scott H. Osbourn
Sr. Environmental Engineer

Enclosure

cc: Gary Robbins, Pinellas County

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

File

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

November 24, 1987

Mr. A. W. Morneault
Environmental Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Re: Pinellas County - AP
Permit No. A052-137556

The Department is in receipt of your request to amend the referenced permit. The following changes to Specific Conditions are hereby made in the permit:

From: 5. Peaking Unit #4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 566 MMBTU/hour
2. Fuel Consumption: 96 BBL/hour of #2 fuel oil
0.57 MMCF/hour of natural gas
3. Stack Height: 50 feet
4. Peaker Make: Two Pratt & Whitney jet engines

To: 5. Peaking Unit #2 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 566 MMBTU/hour
2. Fuel Consumption: 96 BBL/hour of #2 fuel oil
0.57 MMCF/hour of natural gas
3. Stack Height: 50 feet
4. Peaker Make: Two Pratt & Whitney jet engines

Mr. A. W. Morneault
St. Petersburg, Florida

Page Two

Persons whose substantial interests are affected by this permit amendment have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt 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. 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 this paragraph 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, FAC. 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 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 of the Final Order is filed with the Clerk of the Department.

This letter must be attached to each permit and become a part of permit. If you have any questions please contact Mr. C. S. Lee of my staff.

Sincerely,



Richard D. Garrity, Ph.D.
District Manager
Southwest District

RDG/sl

cc: Pinellas County

Mr. A. W. Morneault
St. Petersburg, Florida

Page Three

CERTIFICATE OF SERVICE

This is to certify that this Notice of Permit and all copies were mailed before the close of business on 12-3-87 to the listed persons.

Clerk Stamp

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

Jean Schuster 12-2-87
Clerk Date

TO: File

THROUGH: Bill Thomas

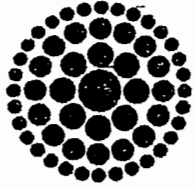
FROM: C. S. Lee

DATE: November 25, 1987

Subject: Amendment of permits
AO52-137121, AO52-137123, AO52-137124
AO52-137125, AO52-137126, AO52-137556

Attached is an amendment letter which was requested by Florida Power Corporation. All referenced permits are changed accordingly.

CSL/s1



**Florida
Power**
CORPORATION

October 16, 1987

D. E. R.

OCT 19 1987

**SOUTH WEST DISTRICT
TAMPA**

Dr. R.D. Garrity
District Manager
Southwest District
4520 Oak Fair Blvd.
Tampa, FL 33610-7347

ATTN: Mr. Jim McDonald

RE: Comments for Permits
 A052-137121 Bartow Unit 2
 A052-137123 Bartow Unit 3
 A052-137124 Higgins Unit 1
 A052-137125 Higgins Unit 2
 A052-137126 Higgins Unit 3
 A052-137556 Higgins Peaking Unit 2

A review of the above cited permits has been made and the following comments made:

- I. For all the above cited permits except A052-137556.
Page 6 of 9, special condition 2:
Add the following to the existing statement, "except as provided for in Section 17-2.250, FAC".
- II. For permit No. A052-137124, 137125 and 137126
Page 8 of 9: Special Condition 7 B 5:
Change the last part of first sentence to read: "and a monthly sample taken for analysis". in lieu of daily samples.
The reason for this change is that the Higgins Units run only on an as needed basis, not daily.
- III. For permit No. A052-1375126
Page 7 of 9; special condition 7 A:
 1. Heat Input: Should be 512 MMBTU/hour
 3. Fuel Consumption: Should be 87 BBL/hour
- IV. For permit No. A052-137556
Page 6 of 7, special condition 5:
Peaking Unit #4 should read "2".

Dr. R.D. Garrity
Page 2
October 16, 1987

The above changes have been discussed with Mr. Jim McDonald of your office and he concurred with these changes.

Should further discussion be necessary on these changes, feel free to contact me at (813)866-5162.

Sincerely,

A handwritten signature in cursive script that reads "A. W. Morneault".

A.W. Morneault
Environmental Operations

AWM:bm

TO: File
THRU: W.C. Thomas *WCT 10/1/87*
FROM: J.W. Estler *JWE 9/25/87*
DATE: September 24, 1987
SUBJECT: Pinellas County - AP
Florida Power Corporation
AO52-137554, 55, 56 and 57.

Attached are the operating permit renewals for Florida Power Corporation's Higgins Plants Peaking Units 1, 2, 3, and 4. These power plants are in compliance with the emission limitations contained in Chapter 17-2 based on the results of the latest stack test. The units are currently on cold standby.

PCDEM has provided us with their recommendation and draft permit on August 28, 1987. According to my telephone conversation with Gary Robbins on Sept. 14, 1987, the county will complete APIS for this facility.

Based on my review of the file and the comments from PCDEM, I recommend this permit be issued as conditioned.

JWE/dtw

PERMIT APPLICATION STATUS SHEET

58634

COMPANY: Florida Power Corp.

PROCESSOR: Estler

PERMIT NO. A052-137586

DATE RECEIVED: 7/31/87

P.E. SEAL & SIGN: Y/N Y

CHECK: Y/N Y

	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	<u>8/3/87</u>	<u>AWW</u>
LOGGING BY SEC'Y	<u>8/5/87</u>	<u>AWW</u>
Permitting Eng'r submit finished permit package & recommendations to supervisor.	_____	_____
Permit Package to Dist. Engr.	<u>9/25/87</u>	<u>AOE</u>
Permit Package to Dist. Mgr.	<u>10/1/87</u>	<u>WST</u>
Permit Package Mailed out:	_____	_____

DATA FOLLOW-UP

Issue Date Updated on PATS: 10-1-87 jm

Updated on WANG: _____



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

GEORGE GREER, CHAIRMAN
JOHN CHESNUT, JR. VICE-CHAIRMAN
CHARLES E. RAINEY
BARBARA SHEEN TODD
BRUCE TYNDALL

September 1, 1987

Mr. Jim Estler
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Fla. 33610-7347

RE: Florida Power Corporation, Permit# AO52-137556 (Replaces
Permit# AO52-58634); Higgins Gas Turbine Peaking Unit# 2

Mr. Estler:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S) and the permit files for the above mentioned facility. Since this peaking unit is in cold shut and is not expected to be used until 1991, there is no current compliance test. The renewal application is deemed complete. Fuel analysis for sulfur has been added as a permit condition. Sulfur content of the fuel is necessary for proper calculations for the AOR report, so this is not a additional burden for the source. Pinellas County recommends that an operating permit for the gas turbine peaking unit be issued. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer
Air Quality Division

GR/0313E

D. E. R.

SEP 04 1987

SOUTH WEST REGION

APPLICANT:

Mr. J. A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg

PERMIT/CERTIFICATION

No. A052-137556
County: Pinellas
Project: Higgins Peaking
Unit# 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 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# 2 using natural gas or #2 Fuel Oil. Peaking Unit# 2 consists of two Pratt & Witney jet engines. Unit is rated at 33.8 MW/hour with a maximum heat input of 566 MMBTU/hour. Maximum fuel usage is $.57(10^6)$ ft³/hour for natural gas and 96 BBL/hour for #2 Fuel Oil.

Located at Shore Drive, Oldsmar, Pinellas County: Florida

UTM 17-336.54 E 3098.25 N

Replaces Permit No.: A052-58634 NEDS No.: 0012 Point ID: 05

Expiration Date: Five years from issue date

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137556
Project: Higgins Peaking Unit# 2

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations 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 subsection 403.087(6), and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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 acknowledgment 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, plant, or aquatic life or property and penalties, therefore, caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from department.
6. The permittee shall at all times 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.

PERMITTEE:
Florida Power Corporation

Permit/Certification No. A052-137556
Project: Higgins Peaking Unit# 2

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as maybe required by law, access to the premises at reasonable times, where the permitted activity is located or conducted for the purposes of;
 - a. Having access to and copying any records that must be kept under the conditions of the permit:
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - (a) a description of and cause of non-compliance; and
 - (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111. Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statues 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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
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 Standards
14. The permittee shall comply with the following monitoring and record keeping requirements :
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137556
Project: Higgins Peaking Unit# 2

SPECIFIC CONDITIONS: Higgins Peaking Unit# 2, Permit# A052-137556:

1. Test the emissions for the following pollutant(s) within 30 days of start up and than at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

- | | |
|--|---|
| <input type="checkbox"/> Particulates | <input type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Fluorides | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity* | <input type="checkbox"/> Hydrocarbons |
| | <input type="checkbox"/> Total Reduces Sulfur |

* Visible emissions test must be conducted while unit is fired on #2 Fuel Oil

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610 (2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions# 1, and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

as contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within +10% of the permitted rates as stated in Condition# 5 (Process Parameters). A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 2 is permitted to operate at the following parameters:

A. Process Parameters:

- | | |
|----------------------|---|
| 1. Heat Input: | 566 MMBTU/hour |
| 2. Fuel Consumption: | 96 BBL/hour of #2 fuel oil
0.57(10 ⁶) ft ³ of natural gas |
| 3. Stack Height: | 50 feet |
| 4. Peaker Make: | Two Pratt & Witney jet engines |

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137556
Project: Higgins Peaking Unit# 2

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:
- a. BTU
 - b. API Gravity
 - c. Density
 - d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

7. The Pinellas County Department of Environmental Management shall be notified in writing 10 days prior to compliance testing.
8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..
- A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions (note calculation basis)
 - C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

Issued this ____ day of _____
19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Richar D. Garrity, Ph.D.
District Manager

APPLICATION TRACKING SYSTEM

08/03/87

APPL NO:137556

APPL RECVD:07/31/87 TYPE CODE:A0 SUBCODE:09 LAST UPDATE:08/03/87

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:___/___/___

DER PROCESSOR:RICHARDSON *ESTERLINE*

APPL STATUS:AC DATE:07/31/87 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N DNR REVIEW REQD? LAT/LONG:28.00.08/82.39.49
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:___
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:___

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 2

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:___

PHONE:___

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:___

STREET:___

CITY:___

STATE:___

ZIP:___

PHONE:___

FEE #1 DATE PAID:07/31/87

AMOUNT PAID:00100

RECEIPT NUMBER:00113806

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - - - ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - ___/___/___
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - ___/___/___
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - ___/___/___
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - - ___/___/___
N WAIVER DATE BEGIN--END (DAY 90) - - - ___/___/___

COMMENTS:

Copy to PeDEM 8/5/87

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 113806

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Fla. Power Corp. Date 7/31/87

Address P.O. Box 14042, St. Pete, Fla 33733 Dollars \$ 100.00

Applicant Name & Address Same

Source of Revenue Higgins Peaking Unit 2

Revenue Code 001032 Application Number A052-137556

CK 935907 By Donna Harris

FACILITY SOURCE ID: 40PNL52001205

SOURCE INFORMATION RECORD

***** CONSTRUCTION PERMIT/PPS INFORMATION *****

PERMIT #: PPS #: FEE PAID: (PERMIT ONLY)
DATE ISSUED: .. / .. / .. DATE EXPIRES: .. / .. / ..
APP COMPLETE: .. / .. / ..

***** OPERATION PERMIT INFORMATION *****

PERMIT #: A052 - 58634 FEE PAID: AOR REQUIRED: . (Y OR N)
DATE ISSUED: 10 / 22 / 82 DATE EXPIRES: 10 / 12 / 87

***** SOURCE DESCRIPTION/TRACKING INFORMATION *****

DESCRIPTION: PEAKING UNIT #P2 GAS TURBINE GENERATOR
STATUS: A = ACTIVE # OF SCC: 003 # OF POLLUTANT: 007 MAJOR SRC: Y (Y OR N)
INITIAL CONSTRUCTION DATE: .. / .. / .. TYPE: .. =
SIC: 4911 = ELECTRIC GENERATION/DISTRIBUTION
NSPS: ... NESHAP: ... 111D: ... PSD: ... NAA/NSR: ... RACT: ...
COMMENT: ALSO 128 GALLONS/HOUR BURNED IN GAS TURBINE
START UP DATE: .. / .. / .. SHUT DOWN DATE: .. / .. / ..

SOURCE SCHEDULE/RATE RECORD

***** OPERATING SCHEDULE INFORMATION *****

TYPICAL OPERATING SCHEDULE: 02 (HR/DAY) 7 (DAY/WK) 52 (WK/YR)
TYPICAL % OPERATING BY SEASON: 25 (DJF) 25 (MAM) 25 (JJA) 25 (SON)
PERMITTED OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)
AOR YR: 86 OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)

***** OPERATING RATE INFORMATION *****

MAX PROCESS RATE: UNITS: OTHER
MAX PRODUCTION RATE: UNITS: OTHER

SOURCE EMISSION POINT RECORD

***** EMISSION POINT INFORMATION *****

EMISSION POINT TYPE: . =
STACK HEIGHT: 055 (FT) EXIT DIA: 15 . 1 (FT) EXIT TEMP: 0850 (F)
ACTUAL VOLUME FLOW RATE: 4000000 (ACFM) DRY STANDARD FLOW RATE: (DSCFM)
EXIT VEL: 0372 (FT/SEC) NONSTK EMIS HT: 0000 (FT) BLDG HT: WD: (FT)
POINT UTM: EAST: (KM) NORTH: (KM) GEP STK HT: ... (FT)
COMMENT:

***** CONTROL EQUIPMENT INFORMATION *****

CONTROL A:
CONTROL B:
CAPITAL COST: A \$ B \$ TOTAL OPER COST \$ AOR YR: 86

FACILITY SOURCE ID: 40PNL52001205

SOURCE SCC RECORD

SCC #: 2-01-002-01 = ENGINE ELE GEN NAT GAS TURBINE
UNITS: MCFB = MIL CUFT BURN MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 01026
ACTUAL AOR YR: 86 ANNUAL RATE: ***** %S: %ASH: MMBTU: 01026
COMMENTS: NATURAL GAS FIRED IN GAS TURBINE

SOURCE SCC RECORD

SCC #: 2-01-001-01 = ENGINE ELE GEN DIESEL TURBINE
UNITS: KGALB = 1000 GAL B/R MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 00130
ACTUAL AOR YR: 86 ANNUAL RATE: ***** %S: %ASH: MMBTU: 00130
COMMENTS:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****
POLLUTANT ID: VOC = NONMETHANE VOLATILE ORGANIC COMPOUNDS % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****
POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.....) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

FACILITY SOURCE ID: 40PNL52001205

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: SO2 = SULFUR DIOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00044 . 6600 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: . . / . . / . .
COMMENT: 000000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: PM = PARTICULATE MATTER % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00010 . 5800 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 000012 . 0000 (TON/YR)
ALLOWABLE EMISSION: (LB/HR) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: . . / . . / . .
COMMENT:

SOURCE TEST RECORD

CURRENT TEST DATE: 00 / 00 / 73 NEXT TEST DATE: . . / . . / . .
TEAM NAME:
MAX PROCESS RATE: ACTUAL: UNITS:
MAX PRODUCTION RATE: ACTUAL: UNITS: OTHER
POLLUTANT ID: PM = PARTICULATE MATTER TEST PASS? . (Y OR N)
PERMIT ALLOWABLE EMIS: UNITS:
TEST ALLOW EMIS: TEST ACT EMIS: 00002 . 670000
UNITS: LB/HR
% TEST ACTUAL BELOW (-) OR ABOVE (+) TEST ALLOWABLE: SIGN: .
COMMENTS:
.
.

FACILITY SOURCE ID: 40PNL52001205

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: NOX = NITROGEN OXIDES % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00211 . 2000 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: . . / . . / . .
COMMENT: 000000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: CO = CARBON MONOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: . . / . . / . .
COMMENT:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: BNZ = BENZENE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: .
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (LB/HR)) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: . . / . . / . .
COMMENT:

FACILITY SOURCE ID: 40PNL52001205

SOURCE TEST RECORD

CURRENT TEST DATE: 00 / 00 / 75 NEXT TEST DATE: .. / .. / ..
TEAM NAME:
MAX PROCESS RATE: ACTUAL: UNITS:
MAX PRODUCTION RATE: ACTUAL: UNITS: OTHER
POLLUTANT ID: BNZ = BENZENE TEST PASS? . (Y OR N)
PERMIT ALLOWABLE EMIS: UNITS:
TEST ALLOW EMIS: TEST ACT EMIS:
UNITS: LB/HR
% TEST ACTUAL BELOW (-) OR ABOVE (+) TEST ALLOWABLE: SIGN: .
COMMENTS:
.....
.....

SOURCE VE/TEST RECORDS

***** VE INFORMATION *****
POLLUTANT ID: VE = VISIBLE EMISSIONS
ALLOW % OPACITY: NORMAL: ... EXCEPT: ... TIME: ... (MIN)
REG CODE: = CEM ? . (Y OR N)
TEST FREQ: 1 = ANNUALLY FREQ BASE DATE: 09 / 14 / 83

***** TEST INFORMATION *****
CURRENT TEST DATE: 01 / 11 / 85 NEXT TEST DATE: 09 / 14 / 83
OBSERVER NAME: 3
TEST LENGTH: 060 (MIN) TEST PASS ? . (Y OR N)
TEST % OPACITY: NORMAL: 010 EXCEPT: ... TIME: ... (MIN)
COMMENTS: 600
.....
.....

***** TEST INFORMATION *****
CURRENT TEST DATE: 10 / 06 / 82 NEXT TEST DATE: 09 / 14 / 83
OBSERVER NAME: 3
TEST LENGTH: 060 (MIN) TEST PASS ? . (Y OR N)
TEST % OPACITY: NORMAL: 007 EXCEPT: ... TIME: ... (MIN)
COMMENTS: 600
.....
.....

***** TEST INFORMATION *****
CURRENT TEST DATE: 09 / 14 / 82 NEXT TEST DATE: 09 / 14 / 83
OBSERVER NAME: 3
TEST LENGTH: 030 (MIN) TEST PASS ? . (Y OR N)
TEST % OPACITY: NORMAL: 010 EXCEPT: ... TIME: ... (MIN)
COMMENTS: 600
.....
.....

RUN DATE 05/01/87
DISTRICT: SOUTHWEST
COUNTY: PINELLAS

DEPARTMENT OF ENVIRONMENTAL REGULATION
AIR POLLUTANT INFORMATION SYSTEM
MASTER DETAIL REPORT

PAGE 3479
FILE AIRF09

FACILITY SOURCE ID: 40PNL52001205

***** TEST INFORMATION *****

CURRENT TEST DATE: 03 / 08 / 78 NEXT TEST DATE: 09 / 14 / 83
OBSERVER NAME:
TEST LENGTH: ... (MIN) TEST PASS ? : (Y OR N)
TEST % OPACITY: NORMAL: ... EXCEPT: ... TIME: ... (MIN)
COMMENTS:
.....
.....

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices And To Other Than The Addressee	
To: _____	Loctn.: _____
To: _____	Loctn.: _____
To: _____	Loctn.: _____
From: _____	Date: _____
Reply Optional []	Reply Required []
Date Due: _____	Date Due: _____
	Info. Only []

TO: Bill Thomas *BT*
 THRU: Bill Buzick *BB*
 FROM: W. E. Starnes *WES*
 DATE: April 17, 1986
 SUBJ: Florida Power Corporation - Petition for Reduction in the
 Frequency of Particulate Emissions Compliance Testing

RECEIVED

APR 18 1986

DIVISION OF ENVIRONMENTAL PERMITTING

Please consider the enclosed semiannual testing reduction petition by the Florida Power Corporation for nine sources. We need to do two things.

1. Determine if we need more information. We need an answer as soon as possible.
2. Determine if the Department should issue the order to allow annual testing according to 17-2.600(5)(b)1. and what conditions, if any, should be included in the Department's order to the company. Please let me know within three weeks.

Thank you for your assistance.

cc: Clair Fancy
John Brown
Ed Huck

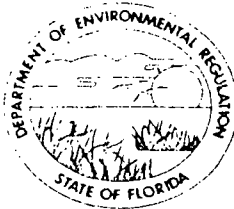
D. E. R.

APR 22 1986

SOUTH WEST DISTRICT
TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301-8241



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

March 5, 1986

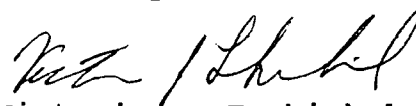
Mr. D. A. Shantz
Supervisor, Environmental
Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Dear Mr. Shantz:

This is to acknowledge receipt of Florida Power Corporation's "petition for reduction in frequency of particulate emission compliance testing" which accompanied your February 18 letter.

Your request to reduce the frequency of particulate testing at nine of your company's generating units from semiannually to annually has been forwarded to the department's Bureau of Air Quality Management for review. Should the department need any additional information to process your request, you will be notified by the bureau within the next 30 days. For information on the status of your request, call Walter E. Starnes, Administrator, Rules Office, Bureau of Air Quality Management, (904) 488-1344.

Sincerely,


Victoria J. Tschinkel
Secretary

VJT/ps

cc: Walter Starnes

Steve Smallwood

DER

MAR 7 1986

BAQM

March 5, 1986

Mr. D. A. Shantz
Supervisor, Environmental
Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Dear Mr. Shantz:

This is to acknowledge receipt of Florida Power Corporation's "petition for reduction in frequency of particulate emission compliance testing" which accompanied your February 13 letter.

Your request to reduce the frequency of particulate testing at nine of your company's generating units from semiannually to annually has been forwarded to the department's Bureau of Air Quality Management for review. Should the department need any additional information to process your request, you will be notified by the bureau within the next 30 days. For information on the status of your request, call Walter E. Starnes, Administrator, Rules Office, Bureau of Air Quality Management, (904) 488-1344.

Sincerely,

/s/ Victoria J. Tschinkel

Victoria J. Tschinkel
Secretary

VJT/ps

cc: Walter Starnes

DEPARTMENT OF ENVIRONMENTAL REGULATION

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Vicki Tschenke

Initial

Date

2.

Initial

Date

3.

RECEIVED

MAR 3 1986

Initial

Date

4.

Office of the Secretary

Initial

Date

REMARKS:

INFORMATION

Review & Return

Review & File

Initial & Forward

DISPOSITION

Review & Respond

Prepare Response

For My Signature

For Your Signature

Let's Discuss

Set Up Meeting

Investigate & Report

Initial & Forward

Distribute

Concurrence

For Processing

Initial & Return

FROM:

Steve Smallwood

DATE

PHONE

JV
3
BQM/SEC/02-72

DRAFTED BY: Steve Smallwood
TYPED BY: Judy Rogers

JR

Mr. D. A. Shantz
Supervisor, Environmental
Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Dear Mr. Shantz:

This is to acknowledge receipt of Florida Power Corporation's "petition for reduction in frequency of particulate emission compliance testing" which accompanied your February 18 letter. Your request to reduce the frequency of particulate testing ^{at} of nine of your company's generating units from semiannually to annually has been forwarded to the department's Bureau of Air Quality Management.

Should the department need any additional information in order to process your request, you will be so notified by the bureau within the next 30 days. For information on the status of your request, contact Walter E. Starnes, Administrator, Rules Office, Bureau of Air Quality Management, (904)488-1344.

Sincerely,

Victoria J. Tschinkel
Secretary

VJT:jr

cc: Walter Starnes

ROUTING AND TRANSMITTAL SLIP

ACTION NO. 02-72
ACTION DUE DATE 02-27-8

1. TO: (NAME, OFFICE, LOCATION)	INITIAL
Steve Smallwood	JS
	DATE
	2/24
2.	INITIAL
	DATE
3.	INITIAL
	DATE
4.	INITIAL
	DATE

REMARKS:

DER
FEB 20 1986
BAQM

(VT)

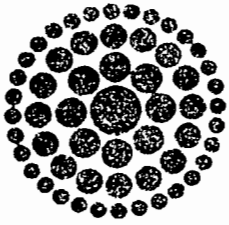
INFORMATION:	
<input type="checkbox"/>	REVIEW & RETURN
<input type="checkbox"/>	REVIEW & FILE
<input type="checkbox"/>	INITIAL & FORWARD
DISPOSITION:	
<input type="checkbox"/>	REVIEW & RESPOND
<input checked="" type="checkbox"/>	PREPARE RESPONSE
<input type="checkbox"/>	FOR THE SIGNATURE
<input type="checkbox"/>	FOR YOUR SIGNATURE
<input type="checkbox"/>	LET'S DISCUSS
<input type="checkbox"/>	SET UP MEETING
<input type="checkbox"/>	INVESTIGATE & REPLY
<input type="checkbox"/>	INITIAL & FORWARD
<input type="checkbox"/>	DISTRIBUTE
<input type="checkbox"/>	CONCURRENCE
<input type="checkbox"/>	FOR PROCESSING
<input type="checkbox"/>	INITIAL & RETURN

FROM: *Pennie*

DATE: 2/20

PHONE:

*write or mail me
pls handle*



RECEIVED

FEB 20 1986

Office of the Secretary

**Florida
Power**
CORPORATION

DER

February 18, 1986

FEB 20 1986

BAQM

Ms. Victoria J. Tschinkel
Secretary, Florida Department of Environmental Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301

Dear Ms. Tschinkel:

Florida Power Corporation is herewith forwarding a "Petition for Reduction in the Frequency of Particulate Emissions Compliance Testing." The petition specifically requests that the frequency of testing at nine of the Company's generating units be reduced from semiannually to annually.

If you have any questions or require additional information, please contact me at (813) 866-4281.

Sincerely,

D. A. Shantz
Supervisor, Environmental Services

Enclosure

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of:)
)
Petition for Reduction in the)
Frequency of Particulate)
Emissions Compliance Testing;)
)
Florida Power Corporation,)
)
)
Petitioner.)
)
_____)

D. E. R.

APR 22 1986

SOUTH WEST DISTRICT
TAMPA

PETITION FOR REDUCTION IN THE FREQUENCY OF
PARTICULATE EMISSIONS COMPLIANCE TESTING

Pursuant to and in accordance with Chapter 17-103 and Section 17-2.600(5)(b)1, Florida Administrative Code, Florida Power Corporation ("Petitioner"), by and through the undersigned J. A. Hancock, Vice President, Fossil Operations, hereby petitions the Secretary of the Florida Department of Environmental Regulation ("the Department") for a reduction in the frequency of particulate emissions compliance testing for several of its fossil fuel-fired generating units. As grounds therefor, Petitioner states:

1. Petitioner is an investor owned utility that provides electric power to its customers. The name and address of Petitioner are:

J. A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

2. Petitioner owns and operates the following generating units:

Anclote Unit 1	Crystal River Unit 1	Higgins Unit 3
Anclote Unit 2	Higgins Unit 1	Turner Unit 3
Bartow Unit 3	Higgins Unit 2	Turner Unit 4

3. On August 22, 1979, the Florida Environmental Regulation Commission adopted an amendment to the emission limiting standard for visible emissions from large existing fossil fuel steam generators specified in Section 17-2.05(6), Table II.E.(1)(b), Florida Administrative Code.

The rule was filed with the Secretary of State on September 6, 1979 and became effective on September 26, 1979. This rule was subsequently recodified and now appears as Section 17-2.600(5)(b)1., Florida Administrative Code. It reads in pertinent part as follows:

1. Visible emissions - Visible emissions with a density of Number 1 of the Ringelmann Chart (20 percent opacity) except that a shade as dark as Number 2 of the Ringelmann Chart (40 percent opacity) shall be permissible for no more than 2 minutes in any hour. Sources governed by this visible emission limit shall test for particulate emission compliance annually and as otherwise required by Section 17-2.700. . .

* * *

Sources which elect to test for particulate emission compliance quarterly shall be allowed visible emissions with a density of Number 2 of the Ringelmann Chart (40 percent opacity). The results of such tests shall be submitted to the Department. Upon demonstration that the particulate standard has been regularly complied with, the Secretary, upon petition by the applicant, may reduce the frequency of particulate testing to no less than once annually.

4. Petitioner elected to conduct quarterly particulate emission compliance tests at the existing generating units specified in paragraph 2 above. Quarterly particulate emission testing was initiated for the listed units in January 1980. Quarterly testing continued at the listed generating units until November 7, 1982, at which time the Department, in response to Petitioner, issued an "Order Granting Petition for Reduced Frequency of Particulate Testing," allowing the listed units to be tested on a semiannual basis.

5. The results of the semiannual tests conducted since November 1982 demonstrate that the applicable steady-state particulate emission limiting standard (0.1 pounds per million Btu heat input, Section 17-2.600(5)(b)2., Florida Administrative Code) has been regularly complied with. The date of submission of the reports on semiannual tests, and the particulate emission rate for each test, are indicated in Exhibit "A" hereto. It is therefore clear that Petitioner has fulfilled the regulatory requirements for a reduction in the frequency of particulate emissions compliance testing.

6. In view of the compliance record of the listed generating units, a reduction of testing frequency from semiannually to annually, would be appropriate. Petitioner therefore requests such a testing frequency reduction at the units listed in paragraph 2 above. Petitioner estimates that a reduction to annual testing at the listed generating units would result in minimum savings of approximately \$657,000 per year, in testing-related and fuel substitution costs.

7. The Secretary of the Department is clearly authorized by Section 17-2.600(5)(b)1., Florida Administrative Code, to reduce the frequency of particulate emissions compliance testing under the circumstances set forth above. The considerable economic savings that would result provide a compelling reason for the grant of relief sought by Petitioner.

REQUEST FOR RELIEF

8. WHEREFORE, Petitioner respectfully requests the following relief:

(a) That the Secretary issue an order reducing the frequency of required steady-state particulate emissions compliance testing to once annually at Petitioner's generating units listed in paragraph 2 above. The annual testing schedule would become effective during the second half of calendar year 1986;

(b) That the order issued by the Secretary make clear that the units qualify for the continued applicability of the 40 percent opacity steady-state visible emission limit;

(c) That the order issued by the Secretary state that it supercedes any conflicting conditions relating to frequency of particulate emissions compliance testing that may be contained in Department operation permits for the specified generating units;

(d) That the Secretary grant such other relief as may be appropriate.

Respectfully submitted,

M. J. Webb FOR J. A. HANCOCK

J. A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
P. O. Box 14042
St. Petersburg, Florida 33733

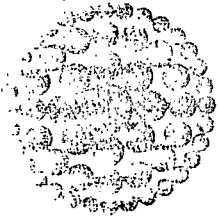
DATED this day of February, 1986.

EXHIBIT A
PLANT EMISSION DATA

<u>Test Date</u>	<u>Emission Rate (LBS/10⁶ Btu)</u>	<u>% Opacity</u>
ANCLOTE 1		
02/19/82	0.088	35.0
05/25/82	0.098	35.0
09/30/82	0.075	40.0
01/13/83	0.087	37.0
11/17/83	0.073	39.0
06/25/84	0.084	38.0
10/09/84	0.091	35.0
06/28/85	0.034	32.0
10/03/85	0.073	30.0
ANCLOTE 2		
03/02/82	0.096	31.0
08/04/82	0.082	35.0
08/12/82	0.080	40.0
06/02/83	0.075	40.0
02/01/84	0.090	38.0
04/18/84	0.076	35.0
12/11/84	0.087	40.0
04/15/85	0.043	20.0
07/09/85	0.020	26.0
BARTOW 3		
01/26/82	0.083	19.0
07/26/82	0.075	28.0
10/08/82	0.078	21.0
11/29/82	0.089	28.0
03/24/83	0.078	25.0
10/05/83	0.045	21.0
03/06/84	0.069	30.0
11/06/84	0.072	25.0
03/14/85	0.070	30.0
CRYSTAL RIVER 1		
02/25/82	0.059	5.0
06/22/82	0.069	8.0
09/28/82	0.035	
11/30/82	0.057	
06/06/83	0.048	16.0
12/06/83	0.023	
06/11/84	0.063	9.0
10/16/84	0.028	5.0

EXHIBIT A (Continued)

<u>Test Date</u>	<u>Emission Rate (LBS/10⁶ Btu)</u>	<u>% Opacity</u>
TURNER 4		
03/30/82	0.091	23.0
06/08/82	0.077	20.0
08/31/82	0.052	11.0
05/10/83	0.062	23.0
08/03/83	0.072	32.0
02/08/84	0.094	23.0
10/23/84	0.067	10.0
01/30/85	0.059	18.0
08/06/85	0.051	25.0



BEST AVAILABLE COPY

100

**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
Higgins Peaker #2 A052-58634
Higgins Peaker #3 A052-58635
Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

M J Hancock / JAH

J. A. Hancock
Vice President, Fossil Operations

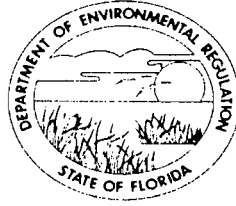
Hancock(M02)C3-1

JAH:ey

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

June 16, 1983

Mr. D. A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Re: Pinellas County - AP
Florida Power Corporation - Higgins Peaking Unit 2
AO52-58634

Dear Mr. Shantz:

We are in receipt of your April 6, 1983 request to modify the conditions of the above referenced permit. Specific Condition Number 1 is hereby deleted and replaced by the following Specific Condition:

1. This unit shall be tested for visible emissions at intervals of 12 months from the date of September 29, 1982 if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. A copy of the test results should be submitted to the Department's Southwest District Office and the Pinellas County Department of Environmental Management within 45 days of testing.

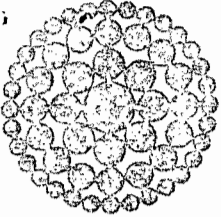
This letter must be attached to your permit and becomes part of that permit.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

JE/scm

cc: PCDEM



BEST AVAILABLE COPY

Air
Does Pinckney
County agree
EV
ES Her
WCS

**Florida
Power**
CORPORATION

April 6, 1983

Mr. Dan A. Williams, P.E.
District Engineer
Dept. of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610-9544

Subject: Higgins Peakers - A052-58633, 58634, 58635, 58636
Bartow Peakers - A052-22551, 22553, 22554, 22555
Bayboro Peakers - A052-22556, 22557, 22558, 22559

Dear Mr. Williams:

Florida Power agrees with the proposal, included in your letter of January 21, 1983, that an annual compliance test for visible emissions be required only if a unit operates more than 5 days (120 hours) on fuel oil per year. We request that the operating permits for our 12 peaking units be modified to include this condition.

Should you have any questions concerning this matter, please advise.

Sincerely,

D. A. Shantz, Supervisor
Environmental Services

Shantz(W03)C4a-2

cc: T. L. Brouette
R. E. Parnelle
Readers

copy to PCDEM
4-15-83

D.L.R.

APR 18 1983

SOUTHWEST DISTRICT
TAMPA

ROUTING AND TRANSMITTAL SLIP
BEST AVAILABLE COPY

ACTION NO.

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Letter Hessling

INITIAL

DATE

2.

INITIAL

DATE

3.

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

*Please let us know
your comments on the
attached*

INFORMATION

REVIEW & RETURN

REVIEW & FILE

INITIAL & FORWARD

DISPOSITION

REVIEW & RESPOND

PREPARE RESPONSE

FOR MY SIGNATURE

FOR YOUR SIGNATURE

LET'S DISCUSS

SET UP MEETING

INVESTIGATE & REPT

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

Tim Estler

DATE

4-15-83

PHONE

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

January 21, 1983

Mr. Dennis A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
A052-58633, 58634, 58635, 58636

Dear Mr. Shantz:

In response to your November 24, 1982 letter requesting relief from the annual visible emission testing requirements for Peaking Units 1 thru 4 at the Higgins Plant, the Department offers the following comments:

1. We agree with you that all four units have operated for only a brief period during the first nine months of 1982 and that bringing the units on line just to conduct a compliance test could be considered unreasonable due to the expense involved.
2. The Department proposes that:
 - a. An annual compliance test be required only if a unit operates more than 5 days (120 hours) on fuel oil per year.
 - b. Test be conducted while burning fuel oil.
 - c. Florida Power tries to coordinate testing with PCDEM when possible.

Please advise if Florida Power agrees with our proposal or if further discussion is needed.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

DAW/llg
cc: PCDEM

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copy to PCDEMA 12/15/82



November 24, 1982

Mr. W. K. Hennessey
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610-0544

Subject: Opacity Testing Higgins P-1 - A052-58633
 Higgins P-2 - A052-58634
 Higgins P-3 - A052-58635
 Higgins P-4 - A052-58636

Dear Mr. Hennessey:

Florida Power requests that the requirement to conduct annual visible emission tests on the subject units be eliminated. Through September of this year, the total operating time for each unit is as follows:

Higgins P-1 - 14.4 hours
Higgins P-2 - 21.5 hours
Higgins P-3 - 16.4 hours
Higgins P-4 - 15.8 hours

These units operate only during unplanned emergency situations and a significant portion of that operation is on natural gas. It involves considerable cost for our customers to bring them on-line just to conduct a visible emission test. We are unable to determine any corresponding benefit to the environment.

These units have always been in compliance with visible emission standards and will continue in compliance for the useful life of the gas turbines. Your timely consideration of this request would be greatly appreciated.

D. J. R.

DEC 10 1982

SOUTHWEST DISTRICT
TAMPA

Mr. W. K. Hennessey
November 24, 1982
Page 2

Should you have any questions concerning this matter, please advise.

Very truly yours,


Dennis A. Shantz, Supervisor
Environmental Services

Shantz(T05)C1-2

cc: R. E. Parnelle
J. Alberdi
F. Denby
T. L. Brouette
Reader's File

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000058634 COE# DER PROCESSOR:RICHARDSON DER OFFICE:TPA
FILE NAME:FLORIDA POWER CORP DATE FIRST REC: 07/29/82 APPLICATION TYPE:AO
APPL NAME:FLORIDA POWER CORP APPL PHONE:(813)866-5151 PROJECT COUNTY:52
ADDR:P O BOX 14042 CITY:ST PETERSBURG ST:FLZIP:33733
AGNT NAME: AGNT PHONE:() -
ADDR: CITY: ST: ZIP:

ADDITIONAL INFO REQ: / / / / / / REC: / / / / / /
APPL COMPLETE DATE: 07/29/82 COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 10/22/82 15:42:46
FEE PD DATE#1:07/29/82 \$0100 RECEIPT#00063821 REFUND DATE: / / REFUND \$
FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$
APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE:10/22/82
REMARKS:RENEWAL OF A052-5703
HIGGINS #2 PEAKING UNIT

COMPANY NAME

Florida Power Corp

Conr
Processor

File Number A52-58634

PERMIT APPLICATION STATUS SHEET

Type of permit applied for OPERATION

County Pinellas

Date Recieved 7-29-82

P.E. seal & signature

Check

No check

Letter of corp. standing

CLOCK
DAYS

DATE TASK COMPLETED

INITIALS

3	Logging by Sec'y	<u>8-2-82</u>	<u>Conr</u>
5	Review by Sec. head and transfer to permitting Engineer		
28	Completeness Review		
	request additional info *		
	information received *		
	Public Notice Published * (for Air Construction only)		
55	Letter of Intent sent to * Supervisor		
60	Letter of Intent submitted * to District Manager		
75	Intent to issue/deny mailed *		
80	Permitting Eng'r submit finished permit package & recommendations to supervisor		
83	Permit Package to Dist. Engr.		
85	Permit Package to Dist. Manager	<u>10-27-82</u>	<u>AV</u>
90	Final Issuance/denial		

*If needed, If not indicate by N/A

Copy to PC 8-2-82

TO: The File
THROUGH: Bill Thomas *[Handwritten Signature]*
FROM: George Richardson *[Handwritten Signature]*
DATE: October 21, 1982
SUBJECT: Florida Power Corporation

This permt is for the operation of the Higgins Peaking Unit #2 located at Booth Road, Oldsmar, Pinellas County.

This is one of four units that is used during peak load demand. The main fuel is natural gas with No. 2 oil as standby.

This source is in compliance. PCDEM and I recommend this permit be issued.

GWR/scm

SOURCE FR & L HIGGINS R 2 DATE 9-21-77

COUNTY PINELLAS TYPE PERMIT 0

ACTION

INITIAL WHEN COMPLETED

DATE

Preliminary Review

SWR

9-21

Assigned for Review to

Review Comments

I have reviewed the plans and applications submitted and find that the above mentioned source will not reasonably be expected to cause pollution in violation of the Department standards, rules and regulations. I recommend approval of this permit.

George W. Richardson

10-6-77
ESW

Number Assigned

PO 52-5703

9-21

Permit Issued & Signed

Permit Logged

Permit Mailed

Data Forms Completed

Permit Denied

New Source (No related permits) _____ Boiler _____
 Renewed or modified permit X Solid Waste (Incinerator) _____
 Point source deleted _____ Other Combustion X _____
 Point source added _____ Process _____
 New Source replacing old source _____ Product (Name) _____

BRIEF DESCRIPTION OF PROCESS

this is a peaking unit fired by GAS or OIL for producing elec.

VARIES

PERMITTING TIME: _____ ER/82 _____ De/78 _____ W/82

STACK DATA

Height (FT) _____
 Diam. (FT) _____
 Temp. (°F) _____
 Flow Rate (CFM) _____
 Plume Height (FT) _____
 Common Stack (Explain) _____

OPERATING DATA

Process Rate _____ #/HR
 Process Rate _____ TON/HR
 Max Design Rate _____ #/HR
 Combustion (Units) Gal TONS _____ BTU/GAL
 Rate _____ Unit/HR _____ Unit
 Heat Content _____ BTU/GAL
 Boiler Capacity _____ BTU/HR
 Max Design Rate _____ Unit/HR
 Fuel (Name) _____ SS _____ EA

COMMENTS:

FUEL USAGE JAN THRU JULY 1977
MAX GAS 24139 MCF
2 OIL 14789 bbl 0.07%

Electricity 6862 MWH

$$SO_2 \frac{14789 \times 42 \times 7.7 \times 2 \times 2 \times .0007}{2000} = 6.7 \text{ Tons/Yr.}$$

Particulates

BEST AVAILABLE COPY

Particulates

Particulates

SO₂

NO_x

HC

F⁻

EMISSIONS

POLLUTANT	lb/hr		lb/ton Product		lb/10 ⁶ BTU		Regulation
	Emission	Allowable	Emission	Allowable	Emission	Allowable	
Particulate							
2							
x							

VE 0% 20%

CAPACITY Test _____ Allowable _____

SOURCES FOR ESTIMATE

- Stack Test Results Date _____ Report Received _____
- X V. E. Test Date 8-17-77 Report Received 8-23-77
- Other tests or emission measurement
- Material balance of process using engineering knowledge
- Emissions calculated using EPA emission factors
- Other Method (Describe): _____

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

Routing To District Offices And To Other Than The Addressee		
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
To: _____	Loctn.: _____	
From: _____	Date: _____	
Reply Optional []	Reply Required []	Info. Only []
Date Due: _____	Date Due: _____	

TO: W. K. Hennessey
THROUGH: Bill Thomas *DLH*
FROM: Jim Estler *AWB 10-6-82*
DATE: September 22, 1982
SUBJECT: Pinellas County - AP
Bartow 2 & 3
Higgins 1, 2 and 3

Attached are five permits which modify existing operating permits to comply with the particulate RACT requirements of Chapter 17-2, F.A.C. The new requirements include an operation and maintenance plan for each unit.

Comments from Pinellas County Department of Environmental Management were received on July 19, 1982 and incorporate into the permits.

Recommend these permits be issued as conditioned (the 90-Day Waiver expires October 7, 1982).

JE/scm

Note: I'll do the APIS II Form later.

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000056654 COE# DER PROCESSOR:RICHARDSON DER OFFICE:TPA
FILE NAME:FLA POWER CORP HIGGINS #3 DATE FIRST REC: 06/10/82 APPLICATION TYPE:AD
APPL NAME:FLA POWER CORP HIGGINS #3 APPL PHONE:(813)866-5454 PROJECT COUNTY:52
ADDR:P O BOX 14042 CITY:ST PETERSBURG ST:FL ZIP:33733
AGNT NAME: AGNT PHONE:() -
ADDR: CITY: ST: ZIP:

ADDITIONAL INFO REQ: / / / / / REC: / / / / /
APPL COMPLETE DATE: 06/10/82 COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE:10/07/82

HEARING REQUEST DATES: / / / / /
HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / /
HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 10/07/82 15:47:29

FEE PD DATE#1:06/10/82 \$0020 RECEIPT#00062413 REFUND DATE: / / REFUND \$
FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$

APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE:10/07/82
REMARKS:RENEWAL OF A052-6593, BOILER
HIGGINS #3

Estler



**Florida
Power**
CORPORATION

D. E. R.

SEP 14 1982

**SOUTHWEST DISTRICT
TAMPA**

September 13, 1982

Jim Estler
Florida Department of Environmental Regulation
Southwest District
7601 Highway 301 North
Tampa, Florida 33610

Subject: Bartow & Higgins Plants
RACT Permit Revisions

Dear Mr. Estler:

Attached are revised operation and maintenance plans for the above plants. These plans provide the additional information you requested during our past telephone conversations. We have also provided the megawatt ratings as requested.

If you have any further questions, please call me at 813/866-5528.

Sincerely,

T. H. Wooten

THW/gr

Attachments

HIGGINS POWER PLANT - BOILERS 1-3

OPERATION AND MAINTENANCE PLAN

Introduction

The Higgins Power Plant is owned and operated by Florida Power Corporation. The plant is located at the southern tip of Oldsmar on Tampa Bay. The plant consists of three boilers and three turbine generator units.

The boiler manufacturer, types and in-service dates are listed below:

<u>Boiler</u>	<u>Service Date</u>	<u>Manufacturer</u>	<u>Type</u>
1	1951	Babcock and Wilcox	Front Fired
2	1953	Babcock and Wilcox	Front Fired
3	1954	Combustion Engineering	Tangential Fired

The boilers exhaust gases through three stacks at an elevation of 174 feet.

Process System Performance Parameters

Boilers 1-3 burn 2.5% sulfur, No. 6 fuel oil and units 1 and 2 also burn natural gas. Fuel oil quality is monitored prior to delivery and a daily sample is taken for a monthly composite analysis. Fuel oil is analyzed for the following:

1. BTU
2. API Gravity
3. Density
4. Sulfur

The rated load, fuel consumption, steam flow rates, operating temperatures and pressures are listed below.

<u>Boiler(MW)</u>	<u>Fuel Consumption</u>	<u>Steam Flow</u>	<u>Operating Temperature</u>	<u>Pressure</u>
1 (43)	87 BBLs/HR	450,000 LBS/HR	950°F	1315 PSI
2 (43)	83 BBLs/HR	450,000 LBS/HR	950°F	1315 PSI
3 (43)	87 BBLs/HR	450,000 LBS/HR	950°F	1315 PSI

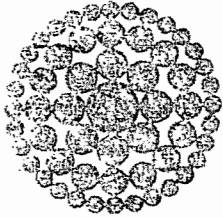
Actual fuel input to the boilers is calculated from daily fuel tank drawdown. Steam flow, temperature and pressure are continuously monitored and recorded to assure efficient boiler operation. Fuel flow, temperature and pressure, and air flow are continuously monitored and maintained at levels to produce efficient fuel combustion. On a regular schedule during each day the plant operators monitor, adjust and record the following parameters to assure efficient plant operation:

1. Pressures - Superheat
Condenser
Barometric
2. Temperatures - Superheat
Inlet Water
3. Unit Load
4. % Gas Usage

Maintenance Inspection

All generating units of the Florida Power Corporation are regularly scheduled for periodic maintenance. The schedule for planned maintenance outages is affected by system load and forced outage requirements. Normally, planned outages are scheduled during non-peak load periods in the spring or fall.

During major outages, the boilers, controls, auxiliaries and duct work are inspected and repaired as necessary. The heart of the combustion system, the burners, are given special attention. All parts are inspected, cleaned and replaced if necessary.



**Florida
Power**
CORPORATION

D.E.R.

SEP. 2 1982

SOUTHWEST DISTRICT
TAMPA

September 1, 1982

Mr. Jim Estler
Florida Department of Environmental Regulation
Southwest District
7601 Highway 301 North
Tampa, Florida 33610

Subject: Extension of Permit Application Review Time

Dear Mr. Estler:

Enclosed are executed forms for the waiver of the 90 day time limit for the RACT Permit Revisions to the existing air operating permits for Bartow Units 2 and 3 and Higgins Units 1, 2, and 3. A 30-day extension to October 7, 1982, is provided.

Sincerely,

T. H. Wooten

THW/gr

Enclosure

COMPANY NAME

Florida Power Corporation

Processor

WE

File Number A052-56654

PERMIT APPLICATION STATUS SHEET

Type of permit applied for Air Operation

County Pinellas

Date Received 6/10/82

P.E. seal & signature

Check

No check

Letter of corp. standing

CLOCK
DAYS

DATE TASK COMPLETED

INITIALS

3	Logging by Sec'y	<u>6/14/82</u>	<u>RKT</u>
5	Review by Sec. head and transfer to permitting Engineer	<u>6-21-82</u>	<u>SW</u>
28	Completeness Review		
	request additional info *		
	information received *		
	Public Notice Published * (for Air Construction only)		
55	Letter of Intent sent to * Supervisor		
60	Letter of Intent submitted * to District Manager		
75	Intent to issue/deny mailed *		
80	Permitting Eng'r submit finished permit package & recommendations to supervisor		
83	Permit Package to Dist. Engr.		
85	Permit Package to Dist. Manager	<u>10-6-82</u>	<u>SW</u>
90	Final Issuance/denial		

*If needed, If not indicate by N/A



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

CHARLES E. RAINEY, CHAIRMAN
BARBARA SHEEN TODD, VICE-CHAIRMAN
GABRIEL CAZARES
JOHN CHESNUT, JR.
BRUCE TYNDALL

July 15, 1982

D.E.R.

JUL 19 1982

SOUTHWEST DISTRICT
TAMPA

Mr. Dan Williams, P.E.
Florida Department of Environmental Regulation
Southwest District Office
7601 Highway 301 North
Tampa, Florida 33610

Re: Florida Power Corporation - RACT O & M Plan Permit Revisions

Dear Dan:

This office has carefully reviewed the correspondence submitted by T. H. Wooten of FPC for RACT based permit revisions for the Bartow and Higgins Plants. The data appears to satisfy the requirements of Ch 17-2.650(2)(d)(g). The data closely agrees with actual parameters recorded during source compliance tests on record. Therefore it is recommended that the permit provisions for the RACT based O & M plan for these units incorporate the data supplied by FPC. Inspection and Maintenance schedules should include continuously monitored steam flow, temperature, and pressure, excess air (recorded), fuel oil feed rates and pressures and other parameters which may effect source performance. Appropriate records should be maintained and readily available for inspection during normal compliance verification inspections by agency personnel.

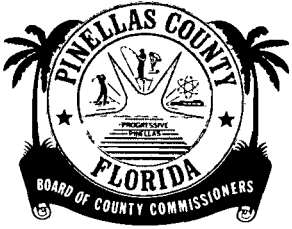
Your providing this correspondence for our review and comment is appreciated. Should you have any questions or feel the need for further discussion on this matter, please contact our office at SUNCOM 570-6522.

Sincerely,

Joyce M. Gibbs, Chief
Division of Air Quality

PAH/jh

Fals - Pinella G. DEM
Gene
PH *re: d*



BOARD OF COUNTY COMMISSIONERS
PINELLAS COUNTY, FLORIDA
315 COURT STREET
CLEARWATER, FLORIDA 33516

June 9, 1982

COMMISSIONERS

CHARLES E. RAINEY, CHAIRMAN
BARBARA SHEEN TODD, VICE-CHAIRMAN
GABRIEL CAZARES
JOHN CHESNUT, JR.
BRUCE TYNDALL

D.E.R.
JUN 14 1982
SOUTHWEST DISTRICT
TAMPA

Mr. William K. Hennessey, District Manager
Department of Environmental Regulation
S.W. District Office
7601 Highway 301 North
Tampa, Florida 33610

Dear Mr. Hennessey:

The Division of Air Quality Enforcement Section's activities for the month of May 1982 are summarized as follows:

Citizen Complaints

Seventeen complaints were received in May.

- | | |
|-------------------------------|------------------------------------|
| 5 - Smoke | 3 - Vapors from Industrial Sources |
| 3 - Emissions from Fla. Power | 2 - Dust |
| 3 - Odor | 1 - Information Request |

Four of the smoke complaints were against Roger's Bar-B-Que. The complaints against Florida Power were regarding excessive emissions from the Anclote Plant (in Pascoe County).

Facility Inspections

A. The following facilities inspected in May are considered to be in full compliance. (Reports attached).

- ✓ 1. A.T. Moorefield Paving, Inc. - Permit A052-19880.
Stack test observed.
- ✓ 2. Florida Power Corporation (Higgins Plant) - Permit A052-6593.
Stack test observed on Unit No. 3.
- ✓ 3. Concrete Services, Inc. (Clearwater Plant) - Permit A052-18308.
4. K & L Concrete, Inc. - Permit A052-47196.



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

CHARLES E. RAINEY, CHAIRMAN
BARBARA SHEEN TODD, VICE-CHAIRMAN
GABRIEL CAZARES
JOHN CHESNUT, JR.
BRUCE TYNDALL

July 15, 1982

D.E.R.

JUL 19 1982

SOUTHWEST DISTRICT
TAMPA

Mr. Dan Williams, P.E.
Florida Department of Environmental Regulation
Southwest District Office
7601 Highway 301 North
Tampa, Florida 33610

Re: Florida Power Corporation - RACT O & M Plan Permit Revisions

Dear Dan:

This office has carefully reviewed the correspondence submitted by T. H. Wooten of FPC for RACT based permit revisions for the Bartow and Higgins Plants. The data appears to satisfy the requirements of Ch 17-2.650(2)(d)(g). The data closely agrees with actual parameters recorded during source compliance tests on record. Therefore it is recommended that the permit provisions for the RACT based O & M plan for these units incorporate the data supplied by FPC. Inspection and Maintenance schedules should include continuously monitored steam flow, temperature, and pressure, excess air (recorded), fuel oil feed rates and pressures and other parameters which may effect source performance. Appropriate records should be maintained and readily available for inspection during normal compliance verification inspections by agency personnel.

Your providing this correspondence for our review and comment is appreciated. Should you have any questions or feel the need for further discussion on this matter, please contact our office at SUNCOM 570-6522.

Sincerely,

Joyce M. Gibbs, Chief
Division of Air Quality

PAH/jh



**Florida
Power**
CORPORATION

September 9, 1975

Mr. J. H. Kerns
Florida Dept. of Environmental Regulation
P. O. Box 9205
Winter Haven, FL 33880

Dear Mr. Kerns:

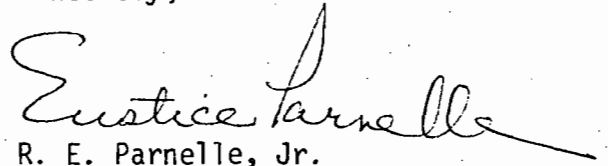
Florida Power Corporation is resubmitting the Air Permit Applications for Higgins Peaking Units P-1, P-2, P-3 and P-4. These units will operate almost exclusively on natural gas. Unit No. P-2 has the capability to operate on liquid fuel; however, it rarely is operated on anything but natural gas. Listed below is the information on operation hours per past six months experience.

	<u>P-1</u>	<u>P-2</u>	<u>P-3</u>	<u>P-4</u>
February	1.3	1.6	0	0
March	1.0	3.9	0.5	0
April	26.9	18.3	36	0
May	72.9	68.6	82.4	47
June	2.4	44.5	52.5	34.7
July	0	4.3	7.7	11.7

Enclosed is the permit application for Bartow Unit No.1 which was evidently returned by mistake.

Should you have any questions concerning this information, please telephone me at (813) 866-4544.

Sincerely,



R. E. Parnelle, Jr.
Administrator, Environmental Operations

c1
Atts.



**Florida
Power**
CORPORATION

June 27, 1975

Mr. W. E. Linne
Florida Department of Pollution Control
P.O. Box 9205
Winter Haven, FL 33880

Dear Mr. Linne:

We are forwarding applications to Operate Pollution Sources for our Bartow Plant Unit #1; Higgins Plant Units 1, 2 and 3; and Higgins Peaking Units P-1, P-2, P-3, and P-4.

Our check, No. 0155726 dated June 26, 1975, in the amount of \$160 is also enclosed to cover the required filing fee of \$20 per application.

If you should have any questions regarding these applications, please telephone me at (813) 866-4544.

Sincerely,

A handwritten signature in cursive script that reads "R. E. Parnelle, Jr." The signature is written in dark ink and is positioned above the typed name.

R. E. Parnelle, Jr.
Administrator, Environmental Operations

c1
Atts.

VISIBL EMISSION FIELD REPORT
 FLORIDA POWER CORPORATION
 P.O. BOX 14042, ST. PETE., FLA. 33733

DATE 8-25-75
 TIME 10:00 AM

PERMIT NUMBER A052-2036
 SOURCE NAME HIGGINS P-2 COUNTY PINELLAS
 SOURCE LOCATION OLDSMAR, FL
 SOURCE DESCRIPTION (TYPE) PEAKING UNIT
 POINT OF OBSERVATION NORTH
 DISTANCE TO SOURCE 500 FEET

MIN	SECONDS				MIN	SECONDS			
	0	15	30	45		0	15	30	45
0	0		0		30				
1	0		0		31				
2	0		0		32				
3	0		0		33				
4	0		0		34				
5	0		0		35				
6	0		0		36				
7	0		0		37				
8	0		0		38				
9	0		0		39				
10	0		0		40				
11	0		0		41				
12	0		0		42				
13	0		0		43				
14	0		0		44				
15	0		0		45				
16	0		0		46				
17	0		0		47				
18	0		0		48				
19	0		0		49				
20	0		0		50				
21	0		0		51				
22	0		0		52				
23	0		0		53				
24	0		0		54				
25	0		0		55				
26	0		0		56				
27	0		0		57				
28	0		0		58				
29	0		0		59				

DIRECTION OF OBSERVER FROM SOURCE
NORTH

DIRECTION OF WIND FROM SOURCE
EAST

WIND VELOCITY
5-15 MPH

DIRECTION OF SUN FROM SOURCE
EAST

CLOUD COVERAGE (IN %)
15%

NOTE:
 1. MINIMUM OF 25 READINGS MUST BE TAKEN.
 2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST .5% OPACITY.

SUM OF OPACITY READINGS
0

TOTAL NUMBER OF READINGS
60

OPACITY = $\frac{\text{SUM OF OPACITY READINGS}}{\text{TOTAL NUMBER OF READINGS}}$ = 0

OBSERVER Ronald L. Campbell

CERT. NO. _____

NOTES - UNIT ON GAS

SOURCE: Ila Power Corp.
Higgins Peaking Unit P-2

DATE: 7-3-75

COUNTY: Pinellas

TYPE PERMIT: Operation

<u>ACTION</u>	<u>INITIAL WHEN COMPLETED</u>	<u>DATE</u>
Preliminary Review		
Assigned for Review to		
Review comments	<u>Dave Zabin</u>	<u>10-29-75</u>
<u>refer to unit P-4. same information</u>		
Number Assigned	<u>Per</u>	<u>10-29-75</u>
Permit issued & signed		
Permit logged		
Permit mailed		
Data forms completed		
Permit Denied		

REVIEWED BY: _____ DATE: _____

NEDS POINT ID. 05

PERMIT NO. A052-318

IS INFORMATION CONFIDENTIAL? YES _____ NO _____

TYPE PERMIT ACTION

DESCRIPTION OF PRIMARY SOURCE

New Source (No related permits) _____	Boiler _____
Renewed or modified permit _____	Solid Waste (Incinerator) _____
Point source deleted _____	Other Combustion _____
Point source added _____	Process _____
New Source replacing old source _____	Product (Name) _____

BRIEF DESCRIPTION OF PROCESS

OPERATING TIME: _____ HR/Da _____ Da/Wk _____ Wk/Yr

STACK DATA

Height (FT) _____
 Diam. (FT.) _____
 Temp. (°F) _____
 Flow Rate (CFM) _____
 Plume Height (FT) _____
 Common Stack (Explain) _____

OPERATING DATA

Process Rate _____ #/HR
 Process Rate _____ TONS/Yr.
 Max Design Rate _____ #/Hr.
 Combustion (Units) Gal _____ TONS _____ FT³ _____
 Rate _____ Unit/Hr _____ Unit/Yr
 Heat Content _____ BTU/Gal.
 Boiler Capacity _____ BTU/Hr.
 Max Design Rate _____ Unit/Hr.
 Fuel (Name) _____ %S _____ %A

COMMENTS:

CONTROL EQUIPMENT

<u>Pollutant</u>	<u>Control Method</u>	<u>% EFF.</u>
Particulates	_____	_____
SO ₂	_____	_____
NO _x	_____	_____
HC	_____	_____
CO	_____	_____
F ⁻	_____	_____
_____	_____	_____

<u>POLLUTANT</u>	<u>LB/HR.</u>	<u>EMISSION ESTIMATE</u>			<u>TEST DATA</u>
		<u>TONS/HR.</u>	<u>LB/TON (PROD.)</u>	<u>LB/10⁶ BTU</u>	
Particulates	_____	_____	_____	_____	_____
SO ₂	_____	_____	_____	_____	_____
NO _x	_____	_____	_____	_____	_____
HC	_____	_____	_____	_____	_____
CO	_____	_____	_____	_____	_____
F ⁻	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

BASIS FOR ESTIMATE:

- _____ Not applicable (if emissions are negligible)
- _____ Stack test results or emission measurements
- _____ Material balance of process using engineering knowledge
- _____ Emissions calculated using EPA emission factors
- _____ Guess
- _____ Emission factor difference from official EPA factor

<u>POLLUTANT</u>	<u>LBS/HR.</u>	<u>ALLOWABLE EMISSIONS</u>		<u>APPLICABLE REGULATIONS</u>
		<u>LBS/TON (PROD.)</u>	<u>LBS/10⁶ BTU</u>	
PARTICULATES	_____	_____	_____	_____
SO ₂	_____	_____	_____	_____
NO _x	_____	_____	_____	_____
HC	_____	_____	_____	_____
CO	_____	_____	_____	_____
F ⁻	_____	_____	_____	_____



JOSEPH W. LANDERS JR.

SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

AUGUST 12, 1975
FLORIDA POWER CORP.
PINELLAS CO. AP

R. E. Parnelle, Jr., Administrator
Environmental Operations
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

RE: Air Permit Applications
Higgins Peaking Units
P-1, P-2, P-3 & P-4

Dear Mr. Parnelle:

The above applications are being returned for inadequate information.

Please re-submit with proper visible emission test data and an average use factor for each unit regarding Jet A. fuel or natural gas. Also submit operation time data per pass 6 month experience.

Since the July 1, 1975 visible emission compliance date has passed and permit A052-2036 has expired, please respond within 20 days of the date of this letter.

Sincerely,

J. H. Kerns, P.E.



Lawton Chiles
Governor

Florida Department of Environmental Protection

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT ISSUANCE

CERTIFIED MAIL

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

DER File No.: A052-216421
County: Pinellas

Enclosed is Amended Permit Number A053-216421 to operate Higgins Peaking Unit No. 2, 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.

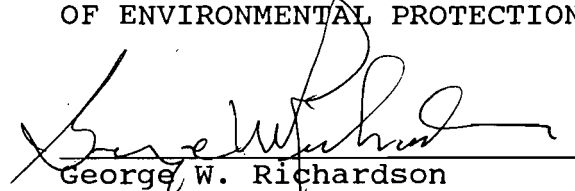
When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the 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.


Clerk

OCT 27 1993
Date

P 648 752 007



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date A053-216420, 421, OCT 27 1993 422, 423	

PS Form 3800, June 1990

P 648 752 008



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date OCT 27 1993 A052-216420, 421, 422, 423	

PS Form 3800, June 1990



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: A052-216421
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.: A052-137556

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-216421
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:

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


	No. 2 Fuel Oil <u>Pounds/10³ Gallons</u>	Natural Gas <u>Pounds/10⁶ ft³</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.).

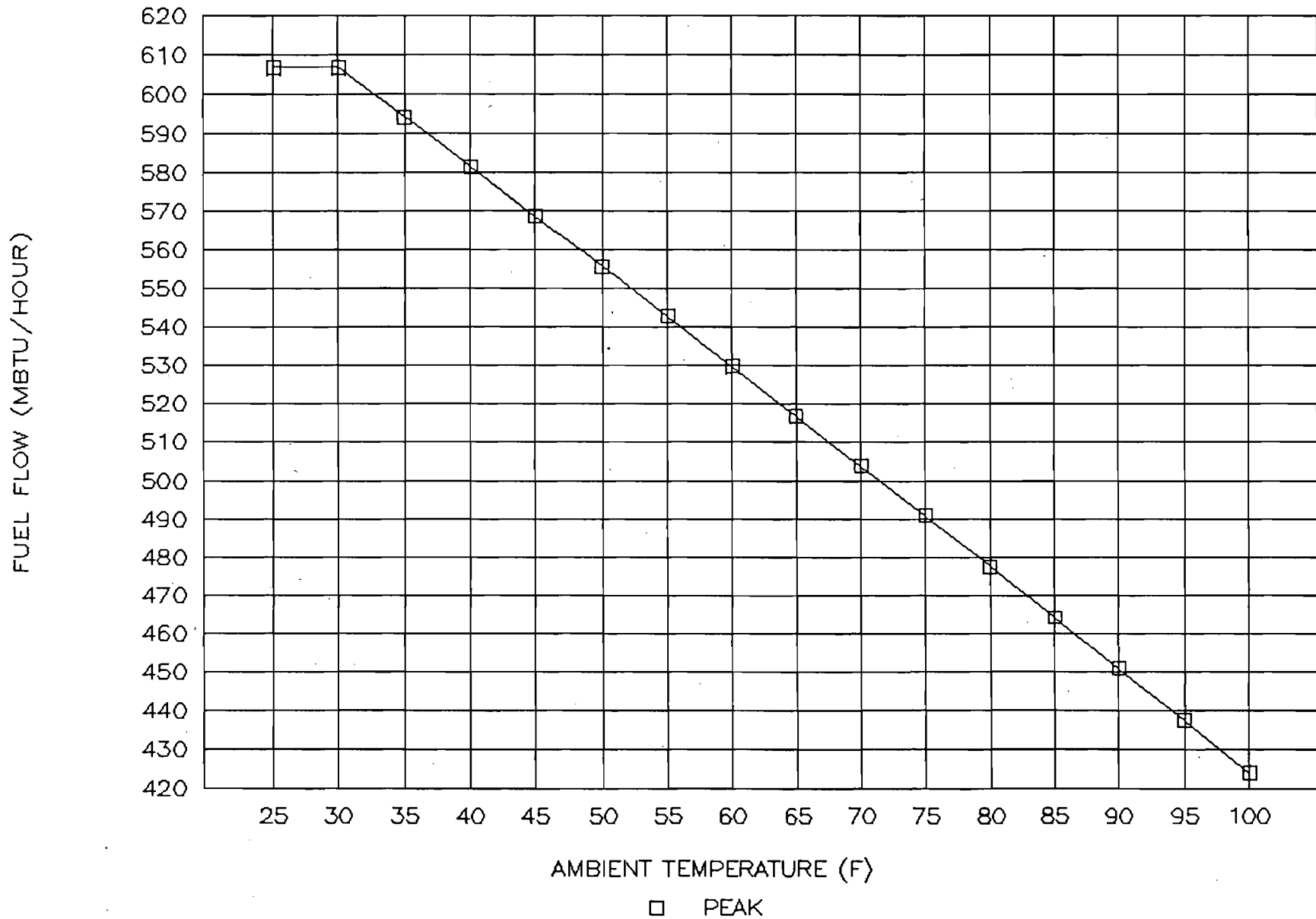
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


for 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



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:

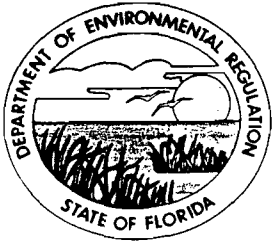
- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Compliance with New Source Performance Standards (NSPS)

"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.



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

In the Matter of an Application
for Permit by:

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

DER File No.: A052-216421
County: Pinellas

Enclosed is Permit Number A052-216421 to operate Higgins Peaking Unit No. 2, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-2 & 17-4.

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

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;

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

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

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. 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, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This permit 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, Florida Administrative Code. 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 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.

BEST AVAILABLE COPY

P 079 942 811

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

See Reverse

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	5
Postmark or Date NOV 13 1992	
A052 - 216420	
" " - 216421	
" " - 216422	
" " - 216423	

PS Form 3800, June 1995

SENDER:

1. Complete items 1 and/or 2 for additional services.
2. Complete items 3, and 4a & b.
3. Print your name and address on the reverse of this form so that we can return this card to you.
4. Attach this card to the front of the mailpiece, or on the back if space does not permit.
5. Write "Return Receipt Requested" on the mailpiece below the article number.
6. The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive the following services (for an extra fee):

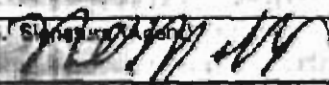
1. Addressee's Address
2. Restricted Delivery
Consult postmaster for fee.

3. Article Addressed to: A052-216420, GR
421, 422 + 423

4a. Article Number
P 079 942 811

4b. Service Type
 Registered Insured
 Certified COD
 Express Mail Return Receipt for Merchandise

7. Date of Delivery
NOV 16 1992

5. Signature (Addressee)


8. Addressee's Address (Only if requested and fee is paid)

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

PS Form 3811, November 1990 U.S. GPO: 1991-287-050 DOMESTIC RETURN RECEIPT

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

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

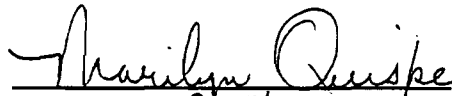
Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on NOV 13 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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


Clerk

NOV 13 1992
Date

BEST AVAILABLE COPY

P 079 942 812

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

Certified Fee	
Special Delivery Fee	
Registered Service Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	NOV 13 1992
A052-216420 " " - 216421 " " - 216422 " " - 216423	

PS Form 3800, June 1985

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive following services (for a fee):

- 1. Addressee's Ac
- 2. Restricted Deliv

Consult postmaster for f

3. Article Addressed to: **A052-216420, GR**
421, 422 + 423

4a. Article Number
P 079 942 812

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

- 4b. Service Type
- Registered
 - Certified
 - Express Mail
 - Insured
 - COD
 - Return Receipt Merchandise

7. Date of Delivery
NOV 15 1992

5. Signature (Addressee)

6. Signature (Sender)

[Handwritten Signature]

8. Addressee's Address (Only if n and fee is paid)



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION:

Permit No.: A052-216421
County: Pinellas
Expiration Date: 11-10-97
Project: Higgins Peaking
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 Peaking Unit No. 2. This unit is fired with natural gas or new No. 2 fuel oil. This is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 33.8 MW/hour with a maximum heat input rate of 566 MMBTU/hour. Maximum fuel usage rate is 0.57 MMBTU/hour of natural gas or 96 BBL/hour of new No. 2 fuel oil.

Location: Booth Road, Oldsmar, Pinellas County

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

Replaces Permit No.: A052-137556

A052-216421

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 (17-2.610(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 2 for visible emissions* at intervals of 12 months from the date of January 7, 1992 if the unit operated more than 5 days (120 hours) on fuel oil the proceeding 12 months. Submit a copy of the test data to the Air Section of the Southwest District Office of the Department of Environmental Regulation and the Pinellas County Department of Environmental Management, Air Quality Division within 45 days of such testing. Testing shall be consistant with the requirement sof Rule 17-2.700, F.A.C.:
- * Visible emissions compliance tests must be conducted while the unit is being fired on new No. 2 fuel oil.
4. Compliance with the visible emissions limitation of Specific Condition No. 2 shall be determined using DER Method No. 9 contained in Rule 17-2.700, F.A.C. Pursuant to Rule 17-2.700(1)(d)1.b., F.A.C., the visible emissions compliance test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source sampling and reporting, shall be in accordance with the requirements of Rule 17-2.700, F.A.C.
5. Testing of emissions must be accomplished within 90-100% of the maximum permitted rate of 33.8 MW/hour. A compliance test submitted at operating rates less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate. Failure to submit the input rates and actual operating conditions may invalidate the test (Rule 17-4.070, 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 each compliance test is to begin (Rule 17-2.700(2)(a)9., F.A.C.).
7. Higgins Peaking Unit No. 2 is permitted to operate at the following parameters:

A. Process Parameters:

1. Maximum Load Rate: 33.8 MW/hour
2. Maximum Heat Input Rate: 566 MMBTU/hour
3. Maximum Fuel Usage Rate: 0.57 MMCF/hour of natural gas,
96 BBL/hour of new No. 2 fuel oil.

PERMITTEE:
Florida Power Corporation

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

8. The new No. 2 fuel oil is to be monitored prior to delivery and a daily sample taken for a monthly composite sample. The fuel oil is to be analyzed for the following:

- a. BTU
- b. API Gravity
- c. Density
- d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

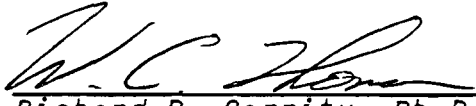
9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 403.080, F.S.:

- A. Annual amount of materials and/or fuels utilized.
- B. Annual emissions (note calculation basis).
- C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Section of the Southwest District Office of the Department of Environmental Regulation and the Pinellas County Department of Environmental Management, Air Quality Division.

10. Two applications to renew this operating permit shall be submitted to the Air Section of the Southwest District of the Department of Environmental Regulation 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 operating permit (Rule 17-4.090, F.A.C.).

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; 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 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 Standards

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.



Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # _____
Form Title _____
Effective Date _____
DER Application No. _____

A052-21642/

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 2 Renewal of DER Permit No. A052-137556

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 2

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336.54 North 3098.225

Latitude: 28° 0' 0" 8"N. Longitude: 82° 3' 9" 4" 9"W.

NEDS No. 0012 Point ID: 05

- 1. Attach a check made payable to the Department of Environmental Regulation...
2. Have there been any alterations to the plant since last permitted? [] Yes [x] No
3. Attach the last compliance test report required per permit conditions...
4. Have previous permit conditions been adhered to? [x] Yes [] No
5. Has there been any malfunction of the pollution control equipment...
6. Has the pollution control equipment been maintained to preserve the collection efficiency...
7. Has the annual operating report for the last calendar year been submitted? [x] Yes [] No

DER Form 17-1.202(4) Effective November 30, 1982

Page 1 of 2

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%Wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	96	96	566
Natural gas	0.57	0.57	566

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____

Ap 52-216421

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

W. Jeffrey Pardue
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
 W. Jeffrey Pardue, Manager - Environ. Programs
 P.O. Box 14042
 St. Petersburg, FL 33733
 City State Zip
 7-15-92 (813) 866-4387
 Date Telephone No.

OFFICIAL NOTARY SEAL
 MARYJANE R BLAIN
 NOTARY PUBLIC STATE OF FLORIDA
 COMMISSION NO. CC184189
 MY COMMISSION EXP. JUNE 3, 1994

*W. J. Pardue personally appeared before me
 this 15th day of July, 1992*
M. J. R. Blain

OPERATION PERMIT RENEWAL
Professional Engineer Certification

This certification must be attached to the renewal application(required by Rule 17-4.050(3), FAC) for:

Company Name: FLORIDA POWER CORPORATION

Source Name: HIGGINS PEAKING UNIT 2

Source Permit No.: AO 52-137556

Source ID: NEDS NO. 0012 POINT ID: 05

County: PINELLAS

PROFESSIONAL ENGINEER REGISTERED IN FLORIDA
(WHERE REQUIRED BY Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with applicable Statutes of the State of Florida.

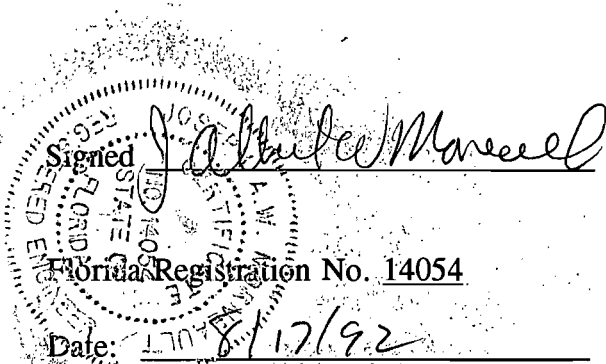
Albert W. Morneault
Name

Florida Power Corporation
Company Name

3201 - 34th Street South
Street Address

St. Petersburg, FL 33733
City, State, and Zip Code

Affix Seal



Telephone No. 813/866-5162

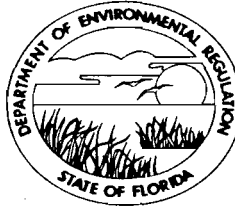
Taken From DER Form 17-1.202(1)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

NOTICE OF PERMIT

Mr. J.A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Hancock:

Re: Pinellas County - AP
Higgins Peaking Unit No. 2

Enclosed is Permit Number AO52-137556 to operate a peaking unit (designated as Unit No. 2), issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee Florida 32301, within fourteen (14) days of receipt 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. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph 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, FAC. 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.

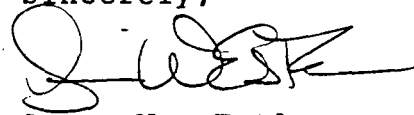
Mr. J.A. Hancock
St. Petersburg, FL 33733

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; 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.

Sincerely,



James Wm. Estler
Air Permitting Engineer

JWE/dtw

Attachment: as stated

cc: PCDEM

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10/2/87 to the listed persons.

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

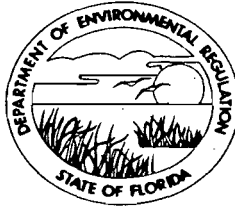
Debra J. Wright 10/2/87
Clerk Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:
Mr. J.A. Hancock
Vice President
Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION
Permit No.: AO52-137556
County: Pinellas
Expiration Date: 9-16-92
Project: Higgins Peaking
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 Peaking Unit No. 2 using natural gas or #2 fuel oil. Peaking Unit #2 consists of two Pratt & Witney jet engines. The unit is rated at 33.8 MW/hour with a maximum heat input of 566 MMBTU/hour. Maximum fuel usage is .57 MMCF/hour for natural gas and 96 BBL/hour for #2 fuel oil.

Location: Shore Drive, Oldsmar, Pinellas County, FL

UTM: 17-336.54E 3098.25N NEDS NO: 0012 Point ID: 05

Replaces Permit No.: AO52-58634

AO52-137556

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate the enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.

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 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

6. The permittee shall at all times 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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of:

a. Having access to and copying any records that must be kept under the conditions of the permit:

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring 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 notify and provide the department with the following information:

(a) a description of and cause of non-compliance; and

(b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.

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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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 Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

14. (con't)

b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

SPECIFIC CONDITIONS:

1. Test the emissions for the following pollutant(s) within 30 days of start up and than at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

- | | |
|------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity* | () Hydrocarbons |

*Visible emissions test must be conducted while unit is fired on #2 fuel oil

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610(2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions Nos. 1 and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

The test methods are contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within $\pm 10\%$ of the permitted rate 33.8 MW/hour. A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 4 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 566 MMBTU/hour
2. Fuel Consumption: 96 BBL/hour of #2 fuel oil
0.57 MMCF/hour of natural gas
3. Stack Height: 50 feet
4. Peaker Make: Two Pratt & Whitney jet engines

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137556
Project: Higgins Peaking
Unit No. 2

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:
- a. BTU
 - b. API Gravity
 - c. Density
 - d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

7. The Pinellas County Department of Environmental Management shall be notified in writing 15 days prior to compliance testing.
8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..
- A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions (note calculation basis)
 - C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

Issued this 1 day of Oct
19 57

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager

A052-137556

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2500 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 2 Renewal of DER Permit No. A052-58634

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Line Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 2

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336.5 North 3098.3

Latitude: 28° 0' 0" N. Longitude: 82° 39' 49" W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
See attached letter.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
See attached letter.

RECEIVED
MAY 10 1982
TALLAHASSEE, FLORIDA

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	96	96	566
Natural gas	0.57	0.57	566

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

J.A. Hancock

Signature, Owner or Authorized Representative
 (Notarization is mandatory)

J.A. Hancock, Vice President, Fossil Operations

Typed Name and Title

P.O. Box 14042

Address:

St. Petersburg

FL 33733

State Zip

7/17/87

Date

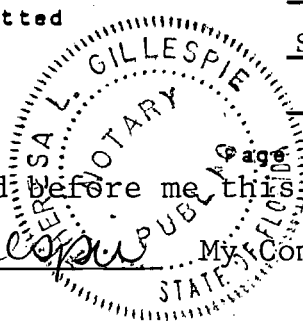
813/866-4524

Telephone No.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted



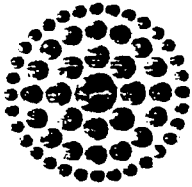
ER Form 17-1.202(4)

Effective November 30, 1982

Page 2 of 2

Sworn to and subscribed before me this 17th day of July, 1987.

Theresa L. Gillespie My Commission Expires October 21, 1990.



**Florida
Power**
CORPORATION

March 3, 1987

Dr. R. D. Garrity
Manager, Southwest District
Florida Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33637

Dear Dr. Garrity:

Subject: Florida Power Corporation
1986 Annual Operations Report

The 1986 Annual Operation Reports are enclosed for the following units:

Anclote Unit 1 (AO51-106660)	Crystal River Unit 1 (AO09-89919)
Anclote Unit 2 (AO51-94924)	Crystal River Unit 2 (AO09-115452)
Bartow Unit 1 (AO52-63210)	Crystal River Unit 4 (Site Certification)
Bartow Unit 2 (AO52-56650)	Crystal River Unit 5 (Site Certification)
Bartow Unit 3 (AO52-56651)	Crystal River Fly Ash System
Bartow Fly Ash System (AO52-71879)	Source No. 1 (AO09-117845)
Bartow Anclote Pipeline Heater (AO52-80149)	Source No. 2 (AO09-117846)
Bayboro P-1 (AO52-89916)	Source No. 3 (AO09-117847)
Bayboro P-2 (AO52-89915)	Source No. 4 (AO09-114093)
Bayboro P-3 (AO52-89914)	Source No. 5 (AO09-114094))
Bayboro P-4 (AO52-89911)	Higgins Unit 1 (AO52-56652)
	Higgins Unit 2 (AO52-56653)
	Higgins Unit 3 (AO52-56654)

The 1987 Annual Operations Reports are not being submitted for those combustion turbines which have been in extended cold shutdown and did not

operate during 1986. The following units did not operate in 1986:

Bartow P-1 (AO52-89907)
Bartow P-2 (AO52-89904)
Bartow P-3 (AO52-89903)
Bartow P-4 (AO52-89902)
Higgins P-1 (AO52-58633)
Higgins P-2 (AO52-58634)
Higgins P-3 (AO52-58635)
Higgins P-4 (AO52-58636)

Should you have any questions concerning this information, please call me at (813) 866-4481.

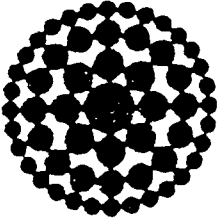
Sincerely,



Elaine R. Macinski
Environmental & Licensing Affairs

ERM:dr

cc: Mr. Peter Hessling
Pinellas County Department of Environmental Management
Division of Air Quality
w/attachments, Bartow, Bayboro and Higgins)



**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
Higgins Peaker #2 A052-58634
Higgins Peaker #3 A052-58635
Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

J. A. Hancock / JAH

J. A. Hancock
Vice President, Fossil Operations

Hancock(M02)C3-1

JAH:ey

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No. 63821

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Power Corp. Date July 29, 1982
Address P.O. Box 14042 Dollars \$ 100.00
Applicant Name & Address same as above
Source of Revenue same as above
Revenue Code 0101 Application Number A052-58634

By Dorothy Pelham

532068

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

October 22, 1982

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Moore:

Re: Pinellas County - AP
Higgins Peaking Unit #2

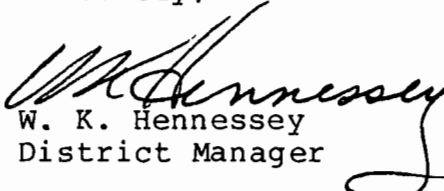
Enclosed is Permit Number A052-58634 dated 10/22/82, to operate the subject pollution source, issued pursuant to Section 403.061(14), Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.201, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department may periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

Sincerely,


W. K. Hennessey
District Manager

WKH/scm

Enclosures
cc: PCDEM

RULES OF THE ADMINISTRATION COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (g) Other information which the petitioner contends is material.

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201 (3) (a), FAC)

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

APPLICANT:

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

No.: A052-58634
County: Pinellas
Project: Higgins Peaking Unit #2

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

For the operation of the Higgins Peaking Unit #2 using No. 2 fuel oil or natural gas. Maximum heat input is 566 MMBTU/hr.

Located at Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N

Replaces Permit No.: A052-5703 NEDS No.: 0012 Point ID: 05

Expiration Date: October 12, 1987

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #2
Page 2 of 4 of Permit No.: A052-58634

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.

4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations.

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

6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.

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

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

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

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #2
Page 3 of 4 of Permit No. A052-58634

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

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

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

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)

SPECIFIC CONDITIONS

1. Test the emissions for the following pollutant(s) at intervals of 12 months from the date September 29, 1982 and submit a copy of test data to the Air Section of the Southwest District Office within forty five days of such testing (Section 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- | | |
|------------------|--------------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity | () Hydrocarbons |
| | () Total Reduced Sulfur |

*Fuel analysis may be submitted for required sulfur dioxide emission test.

2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #2
Page 4 of 4 of Permit No.: A052-58634

3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.

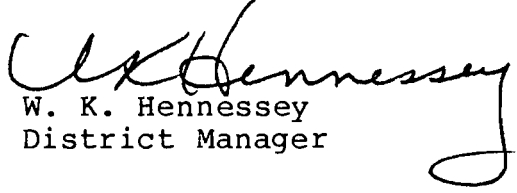
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

4. Visible emissions from this source shall not equal or exceed 20% opacity. Test shall be conducted using DER Method #9.

5. Visible emission test to be conducted when unit is being fired with No. 2 fuel oil.

Issued this 22nd day of October,
1982

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


W. K. Hennessey
District Manager

EXPIRATION DATE

October 12, 1987



D.E.R.

JUL 29 1982

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Peaking Unit Renewal of DER Permit No.: A052-5703

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e.; Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2. Gas Fired):

Higgins #2 Peaking Unit

Source Location: Street: Booth Road City: Oldsmar

UTM: East 336540 North 3098250

Latitude: 2 8 ° 0 0 . 0 8 "N. Longitude: 8 2 ° 3 9 , 4 9 "

1. Attach herewith a twenty dollar (\$20) check made payable to the "Department of Environmental Regulation."
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No
If yes, and not previously reported, give brief details and what action was taken on separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department?
 Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Type	Contaminant	% Wt	Rate	Utilization	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

BEST AVAILABLE COPY

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
No. 2 Fuel Oil	96	96	566
Natural Gas	0,57	0,57	566

D. Normal Equipment Operating Time: hrs/day _____ ; days/wk _____ ; wks/yr _____ ; hrs/yr (power plants only)

8760

; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

G. W. Marshall

Signature, Owner or Authorized Representative
(Notarization is mandatory)

file G. C. Moore, Vice President, Power Production
Typed Name and Title

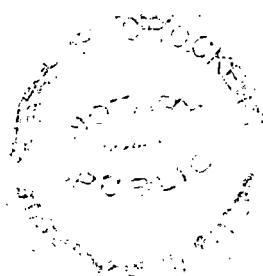
Florida Power Corporation, PO Box 14042
Address

St. Petersburg City FL State 33733 Zip

7/26/82 Date (813) 866-4140 Telephone No.

Arch J. Crockett

Notary Public, State of Florida at Large
My Commission Expires Aug. 24, 1983
Bonded By American Fire & Casualty Company



*During actual time of operation.
**Limits: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
***Attach a letter of authorization if not previously submitted.



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

REUBIN O'D. ASKEW
GOVERNOR

October 10, 1977
Pinellas County - AP
Florida Power Corporation

JOSEPH W. LANDERS, JR.
SECRETARY

Mr. W.P. Stewart, Director
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

RE: A052-5703

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-5703) dated October 10, 1977 to operate the subject pollution source.

This permit will expire on Sept. 21, 1982 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "Operation Permit Conditions".

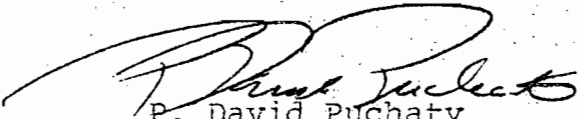
This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

cc: Central Files


P. David Puchaty
District Manager
Southwest District

INTEROFFICE MEMORANDUM

For Routing To District Offices
And/Or To Other Than The Addressee

To: _____	Locn.: _____
To: _____	Locn.: _____
To: _____	Locn.: _____
From: _____	Date: _____

TO: P. David Puchaty

THRU: Dan Williams *[Signature]*

FROM: George Richardson *[Signature]*

SUBJECT: Florida Power Corporation
Higgins Peaking Units #1,2,3,4

DATE: October 3, 1977

Florida Power Corporation has applied for a renewal of permit to operate their peaking units #1,2,3,4 located at their Higgins Plant in Oldsmar.

This source is used during peak periods when more electricity is needed, these units have no control equipment, they are fired with either natural gas or #2 fuel oil.

This source has passed the test requirement of 20% opacity. I, therefore, recommend a permit to operate be issued for a period of five years, with testing done annually.

D.E.R.

SEP 12 1977

SOUTHWEST DISTRICT
TAMPA

9-12-77 LM
A052-5702

Department of Environmental Regulation

Application for Operation

Permit Renewal

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042
St. Petersburg, FL 33733

Current Permit Number A0 52-3120 P-1

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
Natural Gas	73743 MCF	---
#2 Fuel Oil	4714 bbl	0.07

5703

D. Production Rates

Type	Amount Produced
Electricity	6450 MWH

*January thru July, 1977

E. Normal Operating Time

- 1. Hours per ~~day~~ Month 34
- 2. Days per week _____
- 3. Weeks per year _____

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates _____
- 2. SO₂ _____
- 3. NO₂ _____
- 4. CO _____
- 5. Hydrocarbons _____

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

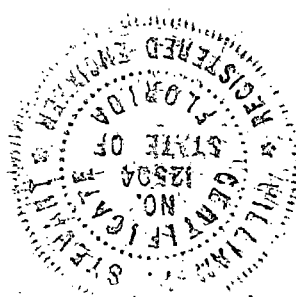
Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

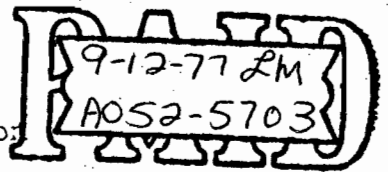
Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159



*Attach a letter of authorization



Department of Environmental Regulation

Application for Operation

Permit Renewal

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation
 Mailing Address P.O. Box 14042
St. Petersburg, FL 33733
 Current Permit Number A052-3118 P-2

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural Gas</u>	<u>24139 MCF</u>	<u>--</u>
<u>#2 Fuel Oil</u>	<u>14789 bbl</u>	<u>0.07</u>

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>6862 MWH</u>

*January thru July, 1977

E. Normal Operating Time

1. Hours per ~~day~~ month

35

2. Days per week

3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159



*Attach a letter of authorization

Department of Environmental Regulation

Application for Operation

Permit Renewal

9-12-77 LM
A052-5704

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042

St. Petersburg, FL 33733

Current Permit Number A052-3119 P-3

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural gas</u>	<u>121099 MCF</u>	<u>---</u>
<u>#2 Fuel Oil</u>	<u>2637 bbl</u>	<u>0.07</u>

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>9153 MWH</u>

*January thru July, 1977

E. Normal Operating Time

42

- 1. Hours per ~~xxx~~ month
- 2. Days per week
- 3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates
- 2. SO₂
- 3. NO₂
- 4. CO
- 5. Hydrocarbons

G. Any changes in control equipment

N/A

The undersigned owner or authorized representative of *Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159



Attach a letter of authorization

Department of Environmental Regulation

Application for Operation

Permit Renewal

9-12-77 pm
A052-5705

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042
St. Petersburg, FL 33733

Current Permit Number A052-2036 P-4

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural Gas</u>	<u>66888 MCF</u>	<u> </u>
<u>#2 Fuel Oil</u>	<u>12411 bbl</u>	<u>0.07</u>

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>9080 MWH</u>

*January thru July, 1977

E. Normal Operating Time

- 1. Hours per ~~Q~~X month 39
- 2. Days per week _____
- 3. Weeks per year _____

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates _____
- 2. SO₂ _____
- 3. NO₂ _____
- 4. CO _____
- 5. Hydrocarbons _____

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77 Telephone No: (813) 866-4159

* Attach a letter of authorization



STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

PINELLAS COUNTY

OPERATION PERMIT

FOR Florida Power Corporation

Post Office Box 14042

St. Petersburg, Florida 33733

PERMIT NO. A052-5703 DATE OF ISSUE October 10, 1977

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061 (16) AND 403.707 OF CHAPTER 403, FLORIDA STATUTES AND CHAPTERS 17-4 AND 17-7, FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO Mr. W. E. Stewart, Director, Power Production

FOR THE OPERATION OF THE FOLLOWING:

The No. 2 Higgins Peaking Unit fired by Natural Gas or #2 oil. Subject to Provisos 1, 2, 3, 5, 6, & 9.

LOCATED AT Oldsmar, Pinellas County

UTM 17-336540 E-3098250N

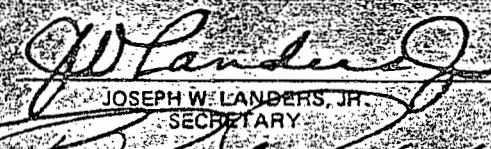
IN ACCORDANCE WITH THE APPLICATION DATED September 9, 1977

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL September 21, 1982

OR UNLESS REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT.


DISTRICT ENGINEER


JOSEPH W. LANDERS, JR.
SECRETARY


DISTRICT MANAGER

GWR

State of Florida
Department of Environmental Regulation

OPERATION PERMIT CONDITIONS
FOR AIR POLLUTION SOURCES

Permit No.: A052-5703

Date: October 10, 1977

An (X) indicates applicable conditions

- (X) 1. The permit holder must comply with Florida Statute, Chapter 403 and the applicable Chapters of the Department of Environmental Regulation in addition to the conditions of this permit (Chapter 403.161(1)(b), Florida Statutes).

- (X) 2. Test the emissions for the following pollutant(s) at intervals of twelve months from the date 9-21-77 and submit a copy of test data to the District Engineer of this agency within fifteen days of such testing (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.)).

() Particulates	() Sulfur Oxides
() Fluorides	() Nitrogen Oxides
(x) Plume Density	() Hydrocarbons
	() Total Reduced Sulfur

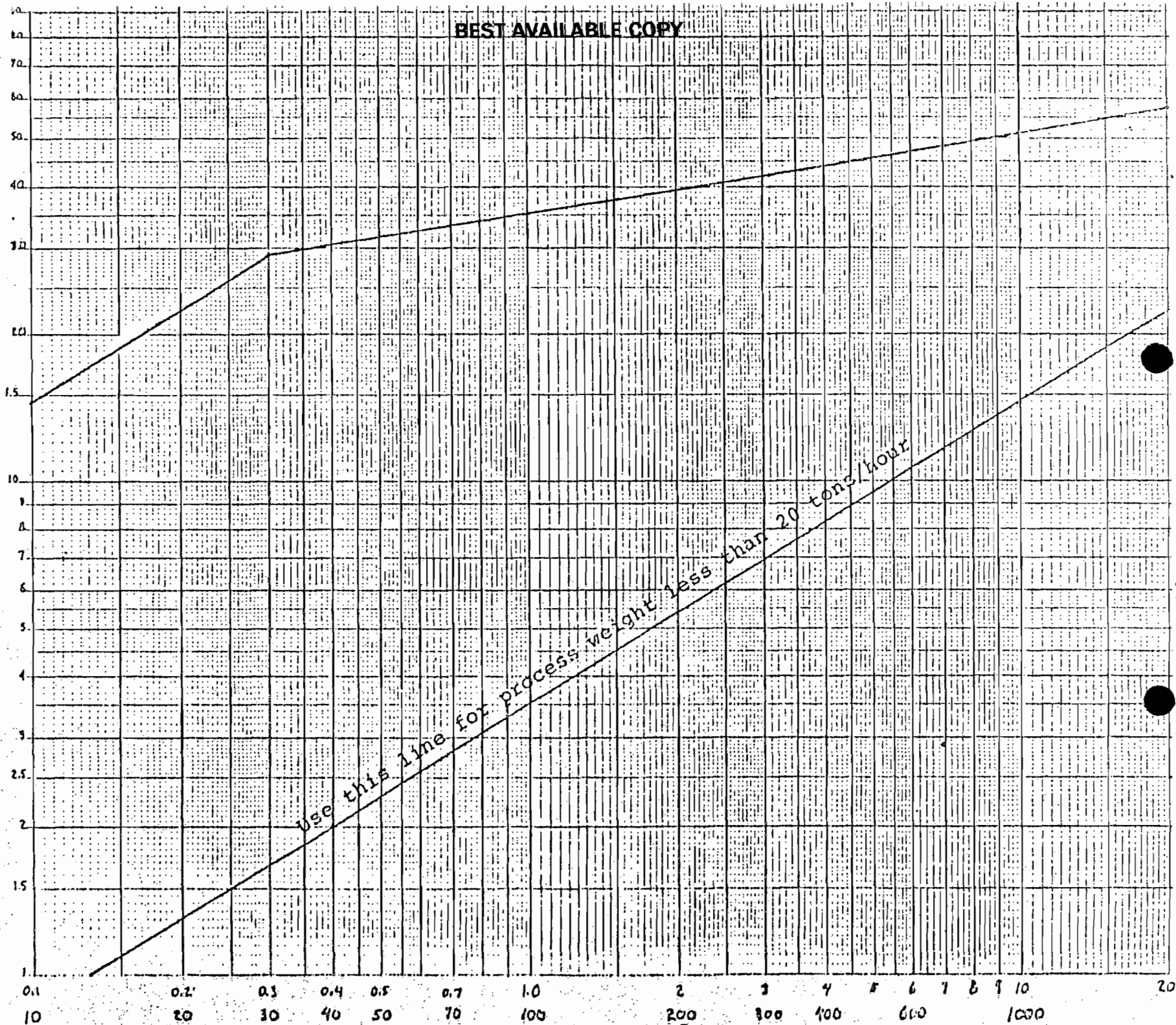
- (X) 3. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).

- () 4. Submit for this source quarterly reports showing the type and monthly quantities of fuels used in the operation of this source. Also state the sulfur content of each fuel (Chapter 17-4.14, F.A.C.).

- (x) 5. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
 - (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.

- (X) 6. In the event the permittee is temporarily unable to comply with any of the conditions of the permit, the permittee shall immediately notify the District Office of the D.E.R. as per Chapter 17-4.13, F.A.C. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement actions by the Department.
- () 7. According to the Process Weight Table within Chapter 17-2.04(2), F.A.C., the maximum allowable emission rate of particulate matter for a process rate of _____ tons/hour is _____ pound/hour. At lesser process rates, the allowable emission rates can be determined from the graph.
- () 8. This permit is associated with a Development of Regional Impact (D.R.I.). It does not waive any other permits that may be required from this or any other state, federal, or local agency.
- (X) 9. Issuance of this permit does not indicate an endorsement or approval of any other required permits by this Department.
- () 10. Incinerators shall comply with the provision of Chapter 17-2.04(6)(a), Florida Administrative Code, and Chapter 1-3.03 VI, A of the Hillsborough County Environmental Protection Commission Rules and Regulations.
- () 11. Incinerators shall not incinerate radioactive materials.

POUNDS OF PARTICULATES





STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

JOSEPH W. LANDERS JR.

SECRETARY

OCTOBER 30, 1975
FLORIDA POWER CORPORATION
PINELLAS CO. AP

W. P. Stewart, Director Power Production
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-3118) dated 10/29/75 to ~~construct/~~ operate the subject pollution source.

This permit will expire on 10/29/77 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "~~Construction/~~Operation Permit Conditions."

This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the Department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

J. H. Kerns, P.E.
Chief of Permitting

JHK/DAT/pm

cc: Central Files
File
Engineer

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

OPERATION PERMIT

FOR FLORIDA POWER CORPORATION

P.O. BOX 14042

ST. PETERSBURG, FLORIDA 33733

PERMIT NO. A052-3118

DATE OF ISSUE 10/29/75

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061(16) AND 403.707 OF CHAPTER 403, FLORIDA STATUTES AND CHAPTERS 17.4 AND 17.7, FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO:

W. P. Stewart, Director Power Production

FOR THE OPERATION OF THE FOLLOWING:

Higgins Peaking Unit P-2, Operating on Natural Gas, subject to attached conditions of approval; numbers 1, 2, 3, 4, 5, 6, and 9.

LOCATED AT Oldsmar, Florida

UTM: 17-336.5 East 3098.2 North

IN ACCORDANCE WITH THE APPLICATION DATED 9/9/75

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL 10/29/77

OR UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT.

J. H. Kerue
DISTRICT ENGINEER

Joseph W. Landers, Jr.
JOSEPH W. LANDERS, JR.
SECRETARY
[Signature]
DISTRICT MANAGER

OPERATION PERMIT CONDITIONS

FOR AIR POLLUTION SOURCES

Permit No.: AO 52-3118

Date: 10/29/75

- (X) 1. Fugitive dusts, odors and other pollutants from all sources shall be effectively controlled or eliminated by suitable means. (Chapter 17-2.04 (3)(4)(5))
- (X) 2. The pollution control equipment shall be maintained and operated in such a manner that all emissions will be in compliance with applicable rules and regulations of the DER. A log of maintenance activities shall be kept and available for DER review. (Chapter 17-2.03 (7))
- (X) 3. Report any problems encountered in the operation of the source that may result in discharge of pollutants in amounts higher than permitted herein. Cease operation forthwith unless permission has been obtained from the regional office of the DER to operate the source for an interim period. (Chapter 17-4.13)
- (X) 4. This permit is issued on the basis of the data submitted in the application and the existing requirements of this agency as set forth in Chapter 17-2 (revised January 18, 1972) Florida Administrative Code. The owner shall obtain written permission from the DER before making changes in the operation of the source (i.e. higher production rate, different raw materials and fuels, etc.) that may increase the quantity of pollutants or change their composition. (Chapter 17-2.01)
- (X) 5. This permit is not transferable. Upon the sale or legal transfer of the source covered by this permit, the new owner must apply by letter for a transfer of this permit within thirty days. (Chapter 17-4.12)
- (x) 6. Test the emissions for the following pollutant(s) at intervals of 6 months from the date of this permit and submit two copies of test results to the District engineer of this agency within fifteen days of such testing. (Chapter 17-2.07 (1))
- | | |
|-------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Plume Density | () Hydrocarbons |
- () 7. Provide such sampling and testing facilities as may be necessary for the proper determination of the nature and quantity of air pollutants emitted from this source. (Chapter 17-2.07)
- () 8. Identify the pollution source and/or control equipment by its manufacturer, model number, serial number, capacity, and any other pertinent information. Submit this information on or before
- (X) 9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information:
- a) Annual amount of materials and/or fuel utilized.
 - b) Annual emissions.
 - c) Any changes in the information contained in the permit application.



52-631 (6)

STATE OF FLORIDA
DEPARTMENT OF POLLUTION CONTROL

WEST REGION

APPLICATION TO OPERATE/CONSTRUCT POLLUTION SOURCES

SECTION I - GENERAL INFORMATION FOR ALL POLLUTION SOURCES
I TO BE FILLED IN BY APPLICANT

Source Type: Air Pollution
Type application: Operation Temporary Operation Construction
Status Source: New Existing Modification

Source Name: Higgins Peaking Unit P-2 County: Pinellas

Source Location: Street: P. O. Box J City: Oldsmar, FL 33557
(Water Source Only) Lat: _____ Long: _____
(Air Source Only) UTM: East 336540 North 3098250

Appl. Name and Title: W. P. Stewart, Director, Power Production
Appl. Address: P. O. Box 14042 C-4, St. Petersburg, FL 33733

II TO BE FILLED IN BY REGION (*BY BUREAU OF PERMITTING)

Control No: Region County Type *Project _____

Type Permit	Date Rec'd	*Permit No.	*Issue Date	*Compl. Date	*Exp. Date

Source Description: _____
Control Equipment: _____

Water Permits

Receiving Body Code: _____ Surface Water Code: _____
Station No.: Influent: _____ Effluent: _____

Effluent:	Average	Design	% Reduction
Flow rate, MGD	_____	_____	_____
BOD, lbs/day	_____	_____	_____
Susp. Sol., lbs/day	_____	_____	_____
Other: _____	_____	_____	_____

Air Permits

Operating Time: Continuous Intermittent
Fuel: Type _____ M-BTU/hr. In Put _____
Incinerator: Capacity, tons/day _____ Type Waste _____
Mfg. & Model _____

Pollutant Emissions, lbs/day	Actual	Design	Allowable
Particulate	_____	_____	_____
Sulfur Oxides	_____	_____	_____
Other: _____	_____	_____	_____

Implementation: Estimated Appl. Filing Date _____
Estimated Start of Const. _____ Estimated Compliance Date _____

DESCRIPTION OF PROPOSED PROJECT

A. Describe the nature and extent of the proposed project. Refer to existing pollution control facilities, DPC permits, conditions, orders and notices, expected improvement in performance of the facilities and state whether the proposed project will result in full compliance of the source. Attach additional sheet if necessary.

N/A

B. Schedule of Project Covered in this Application (Construction Permit Application Only).

Federally or State Financed Projects only: N/A
Planning Complete _____
Financing Program Complete _____
Indicate other local, state and/or federal agency approvals and dates _____

All projects:
Start of Construction _____
Completion of Construction _____

C. Costs of Construction (Show a breakdown of costs for individual components/units of the proposed project serving pollution control purpose only). Information on actual costs shall be furnished with the application for operation permit.

N/A

D. Indicate any previous DPC permits, issuance dates, and expiration dates.

DPC Permit No. A052-2036 , issued 5-18-73, expires 7-1-75

AIR POLLUTION SOURCES & CONTROL DEVICES

A. Identification of Air Contaminants

- 1) Particulates
 a) Dust b) Fly Ash c) Smoke d) Other (Identify)
- 2) Sulfur Compounds
 a) SO_x as SO₂ b) Reduced Sulfur as H₂S c) Other (Identify)
- 3) Nitrogen Compounds
 a) NO_x as NO₂ b) NH₃ c) Other (Identify)
- 4) Fluorides 5) Acid Mist 6) Odor
- 7) Hydrocarbons 8) Volatile Organic Compounds
- 9) Other (Specify): _____

B. Raw Materials and Chemicals Used (Be Specific) N/A

Description	Utilization Tons/day, lbs./day, etc.	Approximate Contaminant Content		Relate to Flow Diagram
		Type	% Wt.	

C. Process Weight: N/A

- 1) Total Process Weight Rate _____ lbs./hr. [See Sec. 17-2.04(2)]
- 2) Product Weight _____ lb./hr. expressed as _____
- 3) Normal Operating Time _____, if seasonal describe: _____
This unit will operate during peak periods of system demand.

D. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge Calc.	Discharge Criteria*	Allowable Discharge*	Relate Location to Flow Diagram
Particulate	16 lb/day			
SO ₂	46 lb/day			

* Refer to Chapter 17-2 Florida Administrative Code
 (Discharge Criteria: Process Weight Rate, #/tonP₂O₅, #/M BTU/hr etc.)

E. Control Devices: N/A

Name	Eff.	Conditions of Operation, Particle Size Range, etc.	Relate to Flow Diagram

F. Fuels:

Type (Be specific)	Daily Consumption	Heat Input BTU/hr.	Relate to Flow Diagram
Jet A, or	2539 gal.	14 x 10 ⁶	
Gas	1817 mcf.	77 x 10 ⁶	

G. Describe briefly, without revealing trade secrets, the unit processes/operations generating the airborne emissions identified in this application:

Fuel burned in the combustion section to produce hot gases. These gases are used to drive the turbine which drives the generator.

H. Indicate liquid or solid wastes generated and method of disposal. N/A

STATEMENTS BY APPLICANT AND ENGINEER

A. Applicant

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for a renewal Operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart
Signature of the Owner or Authorized Representative

W. P. Stewart, Director, Power Production
Name and Title (Please Type)

Date: June 27, 1975 Telephone No.: (813) 866-4159

* Attach a letter of authorization

B. Professional Engineer Registered in Florida:

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the control and discharge of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution source(s) with appropriate control facilities, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the installation covered in this application.

Signature W. P. Stewart

Mailing Address: Florida Power Corporation
P. O. Box 14042 C-4
St. Petersburg, FL 33733
Telephone No.: (813) 866-4159

Name: W. P. Stewart
(please type)

Florida Registration Number 12594
(Please affix seal)

Date: June 27, 1975



If applicant is a corporation, a Certificate of Good Standing must be submitted with application.

This may be obtained, for a \$5.00 charge, from the Secretary of State, Bureau of Corporate Records, Tallahassee, Florida 32304.



**Florida
Power**
CORPORATION

Florida Department of Pollution Control
2562 Executive Center Circle East
Montgomery Building
Tallahassee, Florida 32301

Gentlemen:

Subject: Letter of Authorization

Please be advised that Mr. W. P. Stewart, Director, Power Production, is properly authorized to be the representative in matters relating to Applications for Permits to Operate Existing Air and Water Pollution Sources of Florida Power Corporation, as required by the Florida Department of Pollution Control.

Sincerely,

A handwritten signature in cursive script, appearing to read 'B. L. Griffin'.

B. L. Griffin
Vice President

BLG:cb

STATE OF FLORIDA

OFFICE OF SECRETARY OF STATE

I, Bruce A. Smathers, Secretary of State of the State of Florida, do hereby certify that the records of this office indicate that FLORIDA POWER CORPORATION (the "Company"), a corporation organized under the Laws of the State of Florida on July 18, 1899, has filed instruments in this office affecting its Charter as follows:

- (a) A Composite Certificate of Reincorporation, as amended through June 16, 1966 (with Appendix consisting of Items A, B and C), containing only such provisions as were in effect as of such date;
- (b) On March 31, 1970, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (c) On November 12, 1970, certified copy of a Resolution duly adopted by its Board of Directors on November 5, 1970, creating and establishing an 8.80% Series of Cumulative Preferred Stock;
- (d) On April 2, 1971, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (e) On April 4, 1972, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (f) On June 8, 1972, a certified copy of a Resolution duly adopted by its Board of Directors on June 1, 1972, creating and establishing a 7.40% Series of Cumulative Preferred Stock;
- (g) On December 11, 1973, a certified copy of a Resolution duly adopted by its Board of Directors on December 4, 1973, creating and establishing a 7.76% Series of Cumulative Preferred Stock;
- (h) On April 1, 1974, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company; and
- (i) On June 18, 1974, a certified copy of a Resolution duly adopted by its Board of Directors on June 10, 1974, creating and establishing a 10% Series of Cumulative Preferred Stock.

I do hereby further certify that (i) no Amendments to the Composite Certificate of Reincorporation (other than as mentioned above) have been filed by the Company; (ii) the Company has complied with the requirements of Chapter 28170, Laws of Florida, Acts of 1953, as amended, and has paid in full its corporation capital stock taxes thereunder; and (iii) the Charter of the Company remains in full force and effect.

GIVEN under my hand and the Great Seal of
the State of Florida, at Tallahassee,
the Capital, this the 12th day of March,
A.D., 1975.



Bruce A. Smathers
SECRETARY OF STATE

MEMORANDUM

TO: FILE

THROUGH: BILL THOMAS, P.E. *WTT 10/24/93*

THROUGH: HARRY KERNS, P.E. *HK*

FROM: GEORGE RICHARDSON *GR*

DATE: October 20, 1993

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Units 1, 2, 3 & 4
Permit Amendments
A052-216420, 216421, 216422 & 216423

These permit amendments are for the four peaking units at the Higgins Plant located at Booth Road, Oldsmar, Pinellas County.

The first amendment is to Specific Condition No. 3, change test this unit for VE if it operated on oil for more than 120 hours to test for VE if this unit operated on oil for more than 400 hours.

The second amendment is to Specific Condition No. 5, change testing must be accomplished within 90-100% of the maximum permitted rate, to testing shall be conducted in accordance with the submitted graph for each unit of maximum heat input versus ambient temperature. This testing procedure was blessed by Preston Lewis as representative of the true operation of the peakers.

The third amendment is to Specific Condition No. 8 which changes the way the fuel oil is monitored.

The fourth amendment is to add Specific Condition No. 10 which sets the maximum potential emission rate for each unit.

The fifth amendment is to add Specific Condition No. 11.

The sixth amendment is to add Specific Condition No. 12 which gives the emission factors to calculate annual emissions for the AOR.

The PCDEM, FPC and I are in agreement on the amendments at this time.



**Florida
Power**
CORPORATION

BEST AVAILABLE COPY

file
no files

November 30, 1992

U.S.A.

Mr. Jeff Braswell, Esq.
Office of General Counsel
Florida Department of Environmental Regulation
2600 Blairstone Road
Tallahassee, FL 32399-2400

DEC 02 1992

SOUTHWEST DISTRICT TAMPA

Dear Mr. Braswell:

Re: Higgins Peaking Units Renewal Permits
(Permit Nos. A052-216421, -216422, -216423, -216424)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Because of the Thanksgiving holiday, not all affected parties at FPC have had sufficient time to fully review the permits. Therefore, in accordance with Rule 17-103.070, FPC respectfully requests an extension of the time in which to file for a petition for an administrative hearing, up to and including January 29, 1993. Mr. Harry Kerns of FDER has been contacted regarding this request and has given his concurrence.

Thank you for your consideration of this request. Please contact Mr. Mike Kennedy of my staff at (813) 866-4344 if you have any questions.

Sincerely,

Pat Glyzaid, for/

W. Jeffrey Pardue, Manager
Environmental Programs


cc: ~~Mr. Harry Kerns, FDER~~
Mr. Gary Robbins, Pinellas County
Mr. Albert W. Morneault, P.E.

MEMORANDUM

TO: File

THRU: W. C. Thomas, P.E.

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardson 

DATE: November 10, 1992

SUBJECT: Pinellas County - AP
Florida Power Corporation
Higgins Peaking Unit No. 3
A052-216422

This permit is for the operation of Higgins Peaking Unit No. 3 located at Booth Road, Oldsmar, Pinellas County.

This unit consists of two Pratt & Whitney jet engines. This unit is fired on natural gas or new No. 2 fuel oil.

This unit was tested for visible emissions while firing natural gas on January 7, 1992 and it was in compliance.

Received verbal OK from the PCDEM to issue permits.

I recommend this permit be issued as conditioned.

PERMIT APPLICATION FEE/ASSIGNMENT SHEET

APPLICATION TYPE AO (Renewal) FILE/PROCESSING NO. A052 - 216422

COMPANY Florida Power Corp. COUNTY Pinellas

SOURCE DESCRIPTION/COMMENTS Higgins Peaking Unit 3 (Gas Turbine)

DATE APPL. REC'D (Day 1): 7/16/92

CHECK ATTACHED: N APPLICATION SUB TYPE CODE 00
 Not Required (Similar Source)

FEE SUBMITTED: (correct () incorrect - Should Be \$ 0
 Submitted \$ - 0
 Needed/Refund \$ 1

FEE CHECKED BY: DJZ DATE 7/17/92

APPLICATION ASSIGNED TO: _____ DATE _____

*10 days to 9000 11/10
 15504 R7 11/20/92*

PERMIT APPLICATION PROCESSING STATUS

	<u>Completed</u>	<u>Initials</u>
Date PATS Updated With Processor Name:	_____	_____
Date AC Logged By Section Secretary:	_____	_____
Permit Engineer Submit Finished Permit Package & Recommendations to District Air Engineer:	<u>11-10-92</u>	<u>Cor</u>
Permit Package to District Air Administrator:	_____	_____
Permit Package to Director of District Management:	<u>11/10/92</u>	<u>MT</u>
Permit Package Mailed Out:	<u>NOV 13 1992</u>	<u>MQ</u>

DATA FOLLOW UP

Issue Date Updated on PATS: NOV 13 1992 MQ
 Updated on Wang: _____

APPLICATION TRACKING SYSTEM

NOV 13 1992

07/20/92

APPL NO:216422

APPL RECVD:07/16/92 TYPE CODE:AD SUBCODE:00

LAST UPDATE:07/20/92

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___

APPLICATION COMPLETE:___/___/___

DER PROCESSOR:ATR

APPL STATUS:AC DATE:07/16/92 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING

DISTRICT:40 COUNTY:52

(Y/N) N DGC HEARING REQUESTED

LAT/LONG:28.00.08/82.39.49

(Y/N) N PUBLIC NOTICE REQD?

BASIN-SEGMENT:___

(Y/N) N GOV BODY LOCAL APPROVAL REQD?

COE #:_____

(Y/N) Y LETTER OF INTENT REQD? _ (I/ISSUE D/DENY)

ALT#:_____

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 3

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:_____

PHONE:_____

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:_____

STREET:_____

CITY:_____

STATE:___

ZIP:_____

PHONE:_____

FEE #1 DATE PAID:___/___/___ AMOUNT PAID:NOFEE RECEIPT NUMBER:_____

B	DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE	- - -	___/___/___
C	DATE DER SENT DNR APPLICATION/SENT DNR INTENT	- - -	___/___/___
D	DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP.	- - -	___/___/___
E	DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	8/13/92 8/24/92
E	DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
E	DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT	- - -	___/___/___
F	DATE LAST 45 DAY LETTER WAS SENT	- - -	___/___/___
G	DATE FIELD REPORT WAS REQ--REC	- - -	___/___/___
H	DATE DNR REVIEW WAS COMPLETED	- - -	___/___/___
I	DATE APPLICATION WAS COMPLETE	- - -	8/24/92
J	DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS	- - -	___/___/___
K	DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT	- - -	___/___/___
L	DATE PUBLIC NOTICE WAS SENT TO APPLICANT	- - -	___/___/___
M	DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED	- - -	___/___/___
N	WAIVER DATE BEGIN--END (DAY 90)	- - -	___/___/___

COMMENTS:



Florida Department of Environmental Regulation

Southwest District

4520 Oak Fair Boulevard

Tampa, Florida 33610-7347

Lawton Chiles, Governor

813-620-6100

Carol M. Browner, Secretary

August 13, 1992

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

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
Permit Renewal
A052-216420, A052-216421, A052-216422 &
A052-216423

Dear Mr. Pardue:

On July 16, 1992 the Department received applications to renew the operating permits for Gas Turbine Peaking Units 1 thru 4 at the Higgins Plant located on Booth Road, Oldsmar, Pinellas County. Pursuant to Rules 17-4.055(1), 17-4.070(2), F.A.C., the Department requests submittal of the following additional information:

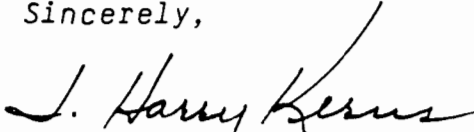
1. The renewal applications for Higgins Peaking Units 1 thru 4 were not submitted under the signature and seal of a professional engineer registered in the State of Florida. In accordance with Rule 17-4.050(3), All applications for a Department permit shall be certified by a professional engineer registered in the State of Florida except when the application is for renewal of an air pollution operation permit at a minor facility as defined in Rule 17-2.100(133), F.A.C., as amended and renumbered on 12-31-91. Enclosed is a memo from Mr. Clair Fancy, Bureau Chief of the Department's Bureau of Air Regulation, Tallahassee, stating that the Department should require the seal and signature of a professional engineer on air pollution applications for construction permits, operating permits, and renewals submitted by public utilities.

"NOTICE: Pursuant to the provisions of Section 120.600, F.S. and Rule 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department will issue a final order denying your application. You need to respond within 30 days after you receive this letter, responding to as many of the information requests as possible and indicating when a response to any unanswered questions will be submitted. If the response will require longer than 90 days to develop, you should develop a specific time table for the submission of the requested information for Department review and consideration.

Failure to comply with a time table accepted by the Department will be grounds for the Department to issue a Final Order for Denial for lack of timely response. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant can reapply as soon as the requested information is available."

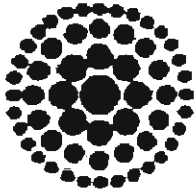
Please resubmit the renewal applications for Peaking Units 1 thru 4 at the Higgins Plant with the professional engineer certifications. Please note on the resubmitted applications "No Fee Required". Your applications to renew the operating permits are being held as incomplete until the professional engineer certified renewal applications are received. If you have any questions, please call George Richardson of my staff at (813)620-6100, extension 420.

Sincerely,


J. Harry Kerns, P.E.
District Air Engineer
Southwest District

4520 Oak Fair Boulevard
Tampa, Florida 33610-7347
(813)620-6100, ext. 419

cc: Pinellas County Department of Environmental Management



BEST AVAILABLE COPY

Handwritten signature

Florida
Power
CORPORATION

D.E.R.

JUL 16 1992
SOUTHWEST DISTRICT TAMPA

July 14, 1992

Dr. Richard Garrity
Florida Department of Environmental Regulation
Southwest District
4520 Oak Fair Blvd.
Tampa, Florida 33610-7347

Dear Dr. Garrity:

Re: Renewal of Air Operating Permits For Higgins Plant Steam and Peaking Units
Permit Nos. AO52-137124, -137125, -137126, -137554, -137555, -137556, & -137557

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Air Quality Division, dated May 27, 1992, providing notification that the above-referenced permits are due to expire on September 16, 1992. The renewals requested include all permitted sources at the Higgins Plant site-- three steam units and four peaking units.

Enclosed are permit renewal applications (three copies of each) for peaking units P1 through P4 and steam units 1 through 3. As reflected in the attached applications, FPC requests the following changes:

- o Correct the Unit 1 heat input rate. The value should be changed from 544 MMBTU/hr to 548 MMBTU/hr.
- o Correct the Unit 2 heat input rate. The value should be changed from 500 MMBTU/hr to 523 MMBTU/hr.
- o Correct the Unit 3 heat input rate. The value should be changed from 512 MMBTU/hr to 548 MMBTU/hr.
- o The Unit 2 annual test date should be changed from July 21, 1986 to May 5, 1992.

over

Dr. Garrity
July 14, 1992
Page 2

- o The Unit 3 annual test date should be changed from July 30, 1986 to May 7, 1992.

The corrected heat input rates are simply a product of the maximum allowable fuel usage rates (87 bbl/hr, 83 bbl/hr and 87 bbl/hr for units 1, 2 and 3, respectively) and the heating value of the fuel (150,000 BTU/gal or 6.3 MMBTU/bbl). FPC has not modified the units and is not requesting a change in the fuel feed rate; the intent is to correct an error in calculation. The reason for the change in the annual test dates is to allow a more even distribution of testing the units within our system. Since peaking units P1 through P4 are substantially similar, FPC requests that the peaking unit air permits be combined and issued as one. Similarly, FPC requests that the steam unit permits also be combined. Accordingly, two checks for \$2,000 each are enclosed to cover the respective processing fees.

If you should have any questions or require clarification of the above, please do not hesitate to contact me at (813) 866-5158.

Sincerely,



Scott H. Osbourn
Sr. Environmental Engineer

Enclosure

cc: Gary Robbins, Pinellas County

TO: File

THRU: W.C. Thomas

FROM: J.W. Estle

DATE: September 24, 1987

SUBJECT: Pinellas County - AP
Florida Power Corporation
AO52-137554, 55, 56 and 57.

Attached are the operating permit renewals for Florida Power Corporation's Higgins Plants Peaking Units 1, 2, 3, and 4. These power plants are in compliance with the emission limitations contained in Chapter 17-2 based on the results of the latest stack test. The units are currently on cold standby.

PCDEM has provided us with their recommendation and draft permit on August 28, 1987. According to my telephone conversation with Gary Robbins on Sept. 14, 1987, the county will complete APIS for this facility.

Based on my review of the file and the comments from PCDEM, I recommend this permit be issued as conditioned.

JWE/dtw

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 113807

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Fla. Power Corp. Date 7/31/87
Address P.O. Box 14042, St. Pete. Fla. Dollars \$ 100.00
33733
Applicant Name & Address same
Source of Revenue Higgins Peaking Unit 3
Revenue Code 001032 Application Number A052-137557
CK 935908 By Donna Harris

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 113807

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Fla. Power Corp. Date 7/31/87
Address P.O. Box 14042, St. Pete. Fla. Dollars \$ 100.00
33733
Applicant Name & Address same
Source of Revenue Higgins Peaking Unit 3
Revenue Code 001032 Application Number A052-137557
CK 935908 By Donna Harris

FACILITY SOURCE ID: 40PNL52001206

SOURCE INFORMATION RECORD

***** CONSTRUCTION PERMIT/PPS INFORMATION *****

PERMIT #: - PPS #: FEE PAID: (PERMIT ONLY)
DATE ISSUED: .. / .. / .. DATE EXPIRES: .. / .. / ..
APP COMPLETE: .. / .. / ..

***** OPERATION PERMIT INFORMATION *****

PERMIT #: A052 - -58635 FEE PAID: AOR REQUIRED: . (Y OR N)
DATE ISSUED: 10 / 22 / 82 DATE EXPIRES: 10 / 12 / 87

***** SOURCE DESCRIPTION/TRACKING INFORMATION *****

DESCRIPTION: PEAKING UNIT #P-7 GAS TURBINE GENERATOR
STATUS: A = ACTIVE # OF SCC: 003 # OF POLLUTANT: 007 MAJOR SRC: Y (Y OR N)
INITIAL CONSTRUCTION DATE: .. / .. / .. TYPE: .. =
SIC: 4911 = ELECTRIC GENERATION/DISTRIBUTION
NSPS: ... NESHAP: ... 111D: ... PSD: ... NAA/NSR: ... RACT: ...
COMMENT: ALSO 218 GALLONS/HOUR BURNED IN GAS TURBINE
START UP DATE: .. / .. / .. SHUT DOWN DATE: .. / .. / ..

SOURCE SCHEDULE/RATE RECORD

***** OPERATING SCHEDULE INFORMATION *****

TYPICAL OPERATING SCHEDULE: 02 (HR/DAY) 5 (DAY/WK) 52 (WK/YR)
TYPICAL % OPERATING BY SEASON: 25 (DJF) 25 (MAM) 25 (JJA) 25 (SON)
PERMITTED OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)
AOR YR: 86 OPERATING SCHEDULE: .. (HR/DAY) . (DAY/WK) .. (WK/YR) (HR/YR)

***** OPERATING RATE INFORMATION *****

MAX PROCESS RATE: UNITS: OTHER
MAX PRODUCTION RATE: UNITS: OTHER

SOURCE EMISSION POINT RECORD

***** EMISSION POINT INFORMATION *****

EMISSION POINT TYPE: . =
STACK HEIGHT: 055 (FT) EXIT DIA: 15 . 1 (FT) EXIT TEMP: 0850 (F)
ACTUAL VOLUME FLOW RATE: 4000000 (ACFM) DRY STANDARD FLOW RATE: (DSCFM)
EXIT VEL: 0372 (FT/SEC) NONSTK EMIS HT: 0000 (FT) BLDG HT: ... WD: ... (FT)
POINT UTM: EAST: (KM) NORTH: (KM) GEP STK HT: ... (FT)
COMMENT:

***** CONTROL EQUIPMENT INFORMATION *****

CONTROL A:
CONTROL B:
CAPITAL COST: A \$ B \$ TOTAL OPER COST \$ AOR YR: 86

FACILITY SOURCE ID: 40PNL52001206

SOURCE SCC RECORD

SCC #: 2-01-002-01 = ENGINE ELE GEN NAT GAS TURBINE
UNITS: MCFB = MIL CUFT BURN MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 01026
ACTUAL AOR YR: 86 ANNUAL RATE: **** * %S: %ASH: MMBTU: 01026
COMMENTS: NATURAL GAS FIRED IN GAS TURBINE

SOURCE SCC RECORD

SCC #: 2-01-001-01 = ENGINE ELE GEN DIESEL TURBINE
UNITS: KGALB = 1000 GAL BR MAX HOURLY RATE: **** . *** ANNUAL LIMIT:
ESTIMATE ANNUAL RATE: %S: %ASH: MMBTU: 00130
ACTUAL AOR YR: 86 ANNUAL RATE: **** * %S: %ASH: MMBTU: 00130
COMMENTS:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****
POLLUTANT ID: VOC = NONMETHANE VOLATILE ORGANIC COMPOUNDS % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****
POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.....) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

FACILITY SOURCE ID: 40PNL52001206

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: SO2 = SULFUR DIOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00007 . 5600 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT: 000000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: PM = PARTICULATE MATTER % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00004 . 4400 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 000012 . 0000 (TON/YR)
ALLOWABLE EMISSION: (LB/HR) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

SOURCE TEST RECORD

CURRENT TEST DATE: 00 / 00 / 76 NEXT TEST DATE: .. / .. / ..
TEAM NAME:
MAX PROCESS RATE: ACTUAL: UNITS:
MAX PRODUCTION RATE: ACTUAL: UNITS: OTHER
POLLUTANT ID: PM = PARTICULATE MATTER TEST PASS? . (Y OR N)
PERMIT ALLOWABLE EMIS: UNITS:
TEST ALLOW EMIS: TEST ACT EMIS: 00002 . 670000
UNITS: LB/HR
% TEST ACTUAL BELOW (-) OR ABOVE (+) TEST ALLOWABLE: SIGN: .
COMMENTS:
.
.

FACILITY SOURCE ID: 40PNL52001206

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: NOX = NITROGEN OXIDES % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 00114 . 5200 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT: 00000000000

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: CO = CARBON MONOXIDE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: 99999 . 9900 (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: *
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) 999999 . 0000 (TON/YR)
ALLOWABLE EMISSION: (.) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

SOURCE POLLUTANT RECORD

***** POLLUTANT/CONTROL INFORMATION *****

POLLUTANT ID: BNZ = BENZENE % EFF:
PRI: . . . = SEC: . . . =

***** EMISSION INFORMATION *****

POTENTIAL EMISSION: (LB/HR) (TON/YR)
ESTIMATED EMISSION: (TON/YR) EST CODE: .
ACTUAL EMISSION: (TON/YR) AOR CODE: . AOR YR: 86
ALLOWABLE EMISSION: (LB/HR) (TON/YR)
ALLOWABLE EMISSION: (LB/HR) OTHER UNIT
REGULATION CODE: = CEM?: . (Y OR N)
TEST FREQUENCY: 0 = NONE REQUIRED FREQUENCY BASE DATE: .. / .. / ..
COMMENT:

RUN DATE 05/01/87
DISTRICT: SOUTHWEST
COUNTY: PINELLAS

DEPARTMENT OF ENVIRONMENTAL REGULATION
AIR POLLUTANT INFORMATION SYSTEM
MASTER DETAIL REPORT

PAGE 3484
FILE AIRF09

FACILITY SOURCE ID: 40PNL52001206

SOURCE TEST RECORD

CURRENT TEST DATE: 00 / 00 / 75 NEXT TEST DATE: .. / .. / ..
TEAM NAME:
MAX PROCESS RATE: ACTUAL: UNITS:
MAX PRODUCTION RATE: ACTUAL: UNITS: OTHER
POLLUTANT ID: BNZ = BENZENE TEST PASS? . (Y OR N)
PERMIT ALLOWABLE EMIS: UNITS:
TEST ALLOW EMIS: TEST ACT EMIS:
UNITS: LB/HR
% TEST ACTUAL BELOW (-) OR ABOVE (+) TEST ALLOWABLE: SIGN: .
COMMENTS:
.....
.....

SOURCE VE/TEST RECORDS

***** VE INFORMATION *****
POLLUTANT ID: VE = VISIBLE EMISSIONS
ALLOW % OPACITY: NORMAL: ... EXCEPT: ... TIME: ... (MIN)
REG CODE: = CEM ? . (Y OR N)
TEST FREQ: 1 = ANNUALLY FREQ BASE DATE: .. / .. / ..

***** TEST INFORMATION *****
CURRENT TEST DATE: 09 / 29 / 82 NEXT TEST DATE: .. / .. / ..
OBSERVER NAME: 3
TEST LENGTH: 060 (MIN) TEST PASS ? . (Y OR N)
TEST % OPACITY: NORMAL: 007 EXCEPT: ... TIME: ... (MIN)
COMMENTS: 610
.....
.....

***** TEST INFORMATION *****
CURRENT TEST DATE: 03 / 08 / 78 NEXT TEST DATE: .. / .. / ..
OBSERVER NAME:
TEST LENGTH: ... (MIN) TEST PASS ? . (Y OR N)
TEST % OPACITY: NORMAL: ... EXCEPT: ... TIME: ... (MIN)
COMMENTS:
.....
.....

58635

PERMIT APPLICATION STATUS SHEET

COMPANY: Florida Power Corp.

PROCESSOR: Estler

PERMIT NO. A052-137557

DATE RECEIVED: 7/31/87

P.E. SEAL & SIGN: Y/N Y

CHECK: Y/N Y

	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	<u>8/3/87</u>	<u>WJW</u>
LOGGING BY SEC'Y	<u>8/5/87</u>	<u>WJW</u>
Permitting Eng'r submit finished permit package & recommendations to supervisor.	_____	_____
Permit Package to Dist. Engr.	<u>9/25/87</u>	<u>WE</u>
Permit Package to Dist. Mgr.	<u>10/2/87</u> <u>10/5/87</u>	<u>WJW</u> <u>WJW</u>
Permit Package Mailed out:	_____	_____

DATA FOLLOW-UP

Issue Date Updated on PATS: _____

Updated on WANG: _____



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

GEORGE GREER, CHAIRMAN
JOHN CHESNUT, JR. VICE-CHAIRMAN
CHARLES E. RAINEY
BARBARA SHEEN TODD
BRUCE TYNDALL

September 1, 1987

Mr. Jim Estler
Department of Environmental Regulation
4520 Oak Fair Blvd.
Tampa, Fla. 33610-7347

RE: Florida Power Corporation, Permit# A052-137557 (Replaces
Permit# A052-58635); Higgins Gas Turbine Peaking Unit# 3

Mr. Estler:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S) and the permit files for the above mentioned facility. Since this peaking unit is in cold shut and is not expected to be used until 1991, there is no current compliance test. The renewal application is deemed complete. Fuel analysis for sulfur has been added as a permit condition. Sulfur content of the fuel is necessary for proper calculations for the AOR report, so this is not an additional burden for the source. Pinellas County recommends that an operating permit for the gas turbine peaking unit be issued. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer
Air Quality Division

GR/0314E

D. E. R.

SEP 04 1987

SOUTH WEST DISTRICT
TAMPA

APPLICANT:

Mr. J. A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg

PERMIT/CERTIFICATION

No. AO52-137557
County: Pinellas
Project: Higgins Peaking
Unit# 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 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# 3 using natural gas or #2 Fuel Oil. Peaking Unit# 3 consists of two Pratt & Whitney jet engines. Unit is rated at 42.9 MW/hour with a maximum heat input of 631 MMBTU/hour. Maximum fuel usage is $.63(10^6)$ ft³/hour for natural gas and 107 BBL/hour for #2 Fuel Oil.

Located at Shore Drive, Oldsmar, Pinellas County: Florida

UTM 17-336.54 E 3098.25 N

Replaces Permit No.: AO52-58635 NEDS No.: 0012 Point ID: 06

Expiration Date: Five years from issue date

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137557
Project: Higgins Peaking Unit# 3

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations 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 subsection 403.087(6), and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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 acknowledgment 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, plant, or aquatic life or property and penalties, therefore, caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from department.
6. The permittee shall at all times 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.

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137557
Project: Higgins Peaking Unit# 3

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as maybe required by law, access to the premises at reasonable times, where the permitted activity is located or conducted for the purposes of;
 - a. Having access to and copying any records that must be kept under the conditions of the permit:
 - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
 - c. Sampling or monitoring 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 notify and provide the department with the following information:
 - (a) a description of and cause of non-compliance; and
 - (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111. Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statues 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 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

PERMITTEE:
Florida Power Corporation

Permit/Certification No: AO52-137557
Project: Higgins Peaking Unit# 3

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
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 Standards
14. The permittee shall comply with the following monitoring and record keeping requirements :
 - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
 - b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
 - the person responsible for performing the analyses;
 - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137557
Project: Higgins Peaking Unit# 3

SPECIFIC CONDITIONS: Higgins Peaking Unit# 3, Permit# A052-137557:

1. Test the emissions for the following pollutant(s) within 30 days of start up and than at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

- | | |
|--|---|
| <input type="checkbox"/> Particulates | <input type="checkbox"/> Sulfur Oxides |
| <input type="checkbox"/> Fluorides | <input type="checkbox"/> Nitrogen Oxides |
| <input checked="" type="checkbox"/> Opacity* | <input type="checkbox"/> Hydrocarbons |
| | <input type="checkbox"/> Total Reduces Sulfur |

* Visible emissions test must be conducted while unit is fired on #2 Fuel Oil

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610 (2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions# 1, and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

as contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within $\pm 10\%$ of the permitted rates as stated in Condition# 5 (Process Parameters). A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 3 is permitted to operate at the following parameters:

A. Process Parameters:

- | | |
|----------------------|--|
| 1. Heat Input: | 631 MMBTU/hour |
| 2. Fuel Consumption: | 107 BBL/hour of #2 fuel oil
0.63(10 ⁶) ft ³ of natural gas |
| 3. Stack Height: | 53 feet |
| 4. Peaker Make: | Two Pratt & Witney jet engines |

PERMITTEE:
Florida Power Corporation

Permit/Certification No: A052-137557
Project: Higgins Peaking Unit# 3

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:

- a. BTU
- b. API Gravity
- c. Density
- d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

7. The Pinellas County Department of Environmental Management shall be notified in writing 10 days prior to compliance testing.

8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..

- A. Annual amount of materials and/or fuels utilized.
- B. Annual emissions (note calculation basis)
- C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

Issued this ____ day of _____
19____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Richar D. Garrity, Ph.D.
District Manager

BEFORE THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

In the Matter of: OGC File No.: 82-0564

FLORIDA POWER CORPORATION,
Bartow Units 1 and 3,
Pinellas County,

Petitioner.

ORDER GRANTING PETITION FOR REDUCED
FREQUENCY OF PARTICULATE TESTING

On April 2, 1982, the Petitioner, FLORIDA POWER CORPORATION, filed a Petition for Reduction in Quarterly Particulate Emissions Compliance Testing pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1 for the following fossil fuel steam generating unit:

Bartow Unit 1

Bartow Unit 3

I have reviewed the petitions and supporting documents and conclude that the Petitioner has demonstrated that the particulate emissions standard applicable to these sources under Florida Administrative Code Rule 17-2.600(5)(b)2 has been regularly complied with for more than two years. Therefore, pursuant to Florida Administrative Code Rule 17-2.600(5)(b)1, IT IS ORDERED that the above referenced petitions are GRANTED with the following conditions:

1. The generating units listed above shall be required to conduct two compliance tests for steady state particulate emissions in each calendar year. One compliance test shall be conducted during the first six months of the calendar year. The remaining compliance test shall be conducted during the second six months of the calendar year and at least sixty (60) days after the first test was conducted.

2. The subject generating units shall not exceed visible emissions of forty (40) percent opacity, except as provided in Florida Administrative Code Rule 17-2.250.

3. Should the petitioner subsequently elect to test for compliance with the steady-state particulate emissions standard

RECEIVED

MAR 4 1987

AIR QUALITY DIV.

on an annual basis as provided in Florida Administrative Code Rule 17-2.600(5)(b)1, the provisions of this Order shall automatically become null and void.

4. This order supercedes all conflicting conditions relating to particulate emissions compliance testing contained in the operating permits issued by the Department for the above listed generating units.

The Petitioner may request a hearing in accordance with Section 120.57, Florida Statutes, and Florida Administrative Code Chapters 17-1 and 28-5. The request for hearing must be filed (received) in the Office of General Counsel of the Department, 2600 Blair Stone Road, Twin Towers Office Building, Tallahassee, Florida 32301, within fourteen (14) days of receipt of this Order. Failure to file a request for hearing within this time shall constitute a waiver of Petitioner's right to request a hearing under Section 120.57, Florida Statutes.

DONE and ORDERED this 7 day of December, 1982, in Tallahassee, Florida.

FILING AND ACKNOWLEDGEMENT

FILED, on this date, pursuant to S120.52 (9), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

[Signature] Clerk 12/1/82 Date

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

[Signature]
VICTORIA J. TSCINKEL
Secretary

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32301
904/488-4805

APPLICATION TRACKING SYSTEM

08/03/87

APPL NO:137557

APPL RECVD:07/31/87 TYPE CODE:A0 SUBCODE:09

LAST UPDATE:08/03/87

DER OFFICE RECVD:TPA DER OFFICE TRANSFER TO:___ APPLICATION COMPLETE:___/___/___

DER PROCESSOR:RICHARDSON ESTLER

APPL STATUS:AC DATE:07/31/87 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N DNR REVIEW REQD? LAT/LONG:28.00.08/82.39.49
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:_.___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:_____

PROJECT SOURCE NAME:HIGGINS PEAKING UNIT 3

STREET:BOOTH ROAD

CITY:OLDSMAR

STATE:FL

ZIP:_____

PHONE:_____

APPLICATION NAME:FLORIDA POWER CORP

STREET:P O BOX 14042

CITY:ST PETERSBU

STATE:FL

ZIP:33733

PHONE:813-866-5151

AGENT NAME:_____

STREET:_____

CITY:_____

STATE:_____

ZIP:_____

PHONE:_____

FEE #1 DATE PAID:07/31/87 AMOUNT PAID:00100 RECEIPT NUMBER:00113807

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. -- ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - ___/___/___
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - ___/___/___
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - ___/___/___
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - ___/___/___
N WAIVER DATE BEGIN--END (DAY 90) - - - ___/___/___

COMMENTS:

Copy to PEDem 8/5/87

10/25/82

DER AIR PERMIT INVENTORY SYSTEM
SOUTHWEST DISTRICT PINELLAS COUNTY

40/52/0012/06
PAGE 4

PLANT 0042 FLA POWER SHORE DR OLDSMAR 33557

UTILITY FILE STATUS SENT
POWER PLANT

SAINT PETERSBURG
W P STEWART
BOX 14042 C 4
ST PETE

FL.
AOCR=052 SIC=4944
LAT=28:20:30N LON=82:48:17W
UTM ZONE 17 336.5KM E. 3098.2KM N.

POINT 06 CONST PATS#

OPER PATS#

A052-58635

ISS= / / EXP= / / ISS=10/22/82 EXP=10/12/87

PEAKING UNIT WP-3 GASTURBINE GENERATOR

SOURCE= IPP= FCAP=? COMM.PNTS. -

STACK HT= 53FT DIAM=15.4FT TEMP= 850F FLOW=4800000CFM PLUME= 0FT

BOILER CAP= 0MBTU/HR FUEL FOR SPACE HEAT= .0%

OPERATING PROCESS RATES YOR=78 RAW MATERIAL= 0 OTHER

PRODUCT 0 OTHER FUEL 77 OTHER

NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25%

PERMIT SCHEDULE 02HRS/DAY 5DAYS/WK 52WKS/YR

ADR FOR 03/15/82 02HRS/DAY 5DAYS/WK 52WKS/YR

COMPLIANCE NFDS=4 ORC=4 UPDATE09/82 SCHED. / UPDATED12/15/84

PERMIT=4 YOR=82 INSPECTED 09/29/82 NEXT DUE 09/29/83

SCC'S

2-01-001-01 YOR= SOURCE=C RATE= 924 MAX= 0.000
FUEL CONT 802= .00% ASH= 0.0% 133MBTU FYOR= CONFID=2

2-01-002-01 YOR= SOURCE=C RATE= 664 MAX= 0.000
FUEL CONT 802= .00% ASH= 0.0% 1026MBTU FYOR= CONFID=2

POLLUTANTS MONITORED

TSP 44404 NORM= 4.00 EST/METH= 16/2 MAX.ALL= 42 TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= 0.0% NFXT DUE 00/00/76 TEST/FREQ=

TESTED 00/00/76 AGENCY= REG= COMPLIANCE=

EMITTED= 2.67 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER

BNZ 44444 NORM= 0.00 EST/METH= 0/ MAX.ALL= 0 TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= . % NFXT DUE / / TEST/FREQ=

TESTED 00/00/75 AGENCY= REG= COMPLIANCE=

EMITTED= 0.00 ALLOWED= 0.00LBS/HR OP-RATE= 0 OTHER

VE 44204 NORM= . EST/METH= / MAX.ALL= TNS/YR.
CTLS.PRI= 0 SEC= 0 EFF= 0.0% NFXT DUE // TEST/FREQ=1

TESTED 09/29/82 AGENCY=3 REG=640 COMPLIANCE=1

EMITTED= 600.07 ALLOWED= 600.20LBS/HR OP-RATE= 42 MBTU/8

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

FACILITY HIGGINS PLANT - FLORIDA POWER CORPORATION		DISTRICT SOUTHWEST	COUNTY PINELLAS
ADDRESS BOOTH POINT, OLDSMAR, FL.		CONTACT MR. JERRY CAMPBELL	
APIS # 40TPA52001206	PERMIT # A052-58635	EXPIRATION DATE 10/12/87	
SOURCE DESCRIPTION GAS TURBINE PEAKING UNIT NO. 3			
INSPECTION DATE 8/13/85	AUDIT TYPE 2 - MAJOR MAJOR	COMPLIANCE STATUS IN COMPLIANCE FOR EXTENDED COLD SHUT DOWN	
INSPECTION COMMENTS/RECOMMENDATIONS <p>A052-58635. - GAS TURBINE PEAKING UNIT WITH MAXIMUM HEAT INPUT OF 566 MM BTU / HR</p> <p>THE PRATT & WHITNEY JET ENGINES OF THE PEAKER UNIT NO. 3 ARE CURRENTLY STORED IN CAPSULES FILLED WITH NITROGEN GAS, DUE TO EXTENDED COLD SHUT DOWN</p> <p>THE TOTAL NUMBER OF HOURS OF OPERATION DURING THE LAST 12 MONTHS TO THE END OF JULY, 1985 WERE 12.6 HRS.</p>			
INSPECTOR(S) NAME(S) RAMON SOLIS			
SIGNATURE(S) <i>Ramon Solis</i>		DATE 8/15/85	

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 1984 prior to March 1st of the following year.

I. GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Higgins Peaker #3)
2. Permit Number: A052-58635
3. Source Address: P.O. Box 3, Oldsmar, FL 33557
4. Description of Source: Gas Turbine

II. OPERATING SCHEDULE: 24 hrs/day 7 day/wk 52 wks/yr
Operated 13.5 hours in 1984

III. RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
<u>N/A</u>		tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr
Product Output (tons/yr - cubic feet/yr)		

IV. TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1% S).

<u>3.26</u> 10^6 Cu. Ft. Natural Gas	<u>2.94</u> 10^3 gallons No. 2 Oil, <u>0.25</u> %S
<u> </u> 10^3 gallons Propane	<u> </u> 10^3 gallons Kerosene
<u> </u> tons Coal	<u> </u> 10^6 lb Black Liquor Solids
<u> </u> tons Carbonaceous	<u> </u> tons Refuse
Other (Specify type and units) <u> </u>	

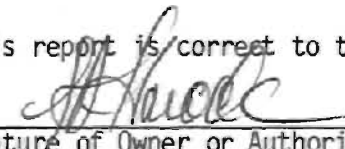
V. EMISSION LEVEL (tons/yr):

A. <u>0.030</u> Particulates	<u> </u> Carbon Monoxide
<u>0.773</u> Nitrogen Oxide	<u> </u> Total Reduced Sulfur
<u> </u> Hydrocarbon	<u> </u> Fluoride
<u>0.051</u> Sulfur Dioxide	
Other (Specify type and units) <u> </u>	

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.): Emission factors from AP-42.

VI. CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.


Signature of Owner or Authorized Representative

J. A. Hancock
Vice President, Fossil Operations



BEST AVAILABLE COPY

**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
Higgins Peaker #2 A052-58634
Higgins Peaker #3 A052-58635
Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

J. A. Hancock / JAH

J. A. Hancock
Vice President, Fossil Operations

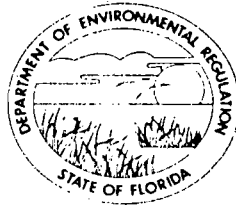
Hancock(M02)C3-1

JAH:ey

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

June 16, 1983

Mr. D. A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Re: Pinellas County - AP
Florida Power Corporation - Higgins Peaking Unit 3
A052-58635

Dear Mr. Shantz:

We are in receipt of your April 6, 1983 request to modify the conditions of the above referenced permit. Specific Condition Number 1 is hereby deleted and replaced by the following Specific Condition:

1. This unit shall be tested for visible emissions at intervals of 12 months from the date of September 29, 1982 if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. A copy of the test results should be submitted to the Department's Southwest District Office and the Pinellas County Department of Environmental Management within 45 days of testing.

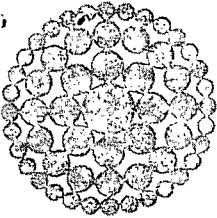
This letter must be attached to your permit and becomes part of that permit.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

JE/scm

cc: PCDEM



Air
Does Pinellas
County agree
EW
E. S. Flor
WCF

**Florida
Power**
CORPORATION

April 6, 1983

Mr. Dan A. Williams, P.E.
District Engineer
Dept. of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610-9544

Subject: Higgins Peakers - A052-58633, 58634, 58635, 58636
Bartow Peakers - A052-22551, 22553, 22554, 22555
Bayboro Peakers - A052-22556, 22557, 22558, 22559

Dear Mr. Williams:

Florida Power agrees with the proposal, included in your letter of January 21, 1983, that an annual compliance test for visible emissions be required only if a unit operates more than 5 days (120 hours) on fuel oil per year. We request that the operating permits for our 12 peaking units be modified to include this condition.

Should you have any questions concerning this matter, please advise.

Sincerely,

D. A. Shantz, Supervisor
Environmental Services

Shantz(W03)C4a-2

cc: T. L. Brouette
R. E. Parnelle
Readers

*copy to PCDEM
4-15-83*

D. I. R.

APR 18 1983

SOUTHWEST DISTRICT
TAMPA

ROUTING AND TRANSMITTAL SLIP

ACTION NO

ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION)

Letter Hessling

INITIAL

DATE

2.

INITIAL

DATE

3.

INITIAL

DATE

4.

INITIAL

DATE

REMARKS:

*Please let us know
your comments on the
attached*

INFORMATION

REVIEW & RETURN

REVIEW & FILE

INITIAL & FORWARD

DISPOSITION

REVIEW & RESPOND

PREPARE RESPONSE

FOR MY SIGNATURE

FOR YOUR SIGNATURE

LET'S DISCUSS

SET UP MEETING

INVESTIGATE & REPT

INITIAL & FORWARD

DISTRIBUTE

CONCURRENCE

FOR PROCESSING

INITIAL & RETURN

FROM:

Tim Estler

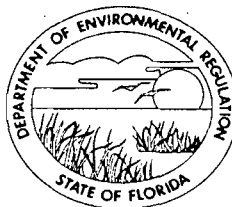
DATE

4-15-83

PHONE

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

January 21, 1983

Mr. Dennis A. Shantz, Supervisor
Environmental Services
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Re: Pinellas County - AP
Higgins Peaking Units 1 thru 4
A052-58633, 58634, 58635, 58636

Dear Mr. Shantz:

In response to your November 24, 1982 letter requesting relief from the annual visible emission testing requirements for Peaking Units 1 thru 4 at the Higgins Plant, the Department offers the following comments:

1. We agree with you that all four units have operated for only a brief period during the first nine months of 1982 and that bringing the units on line just to conduct a compliance test could be considered unreasonable due to the expense involved.
2. The Department proposes that:
 - a. An annual compliance test be required only if a unit operates more than 5 days (120 hours) on fuel oil per year.
 - b. Test be conducted while burning fuel oil.
 - c. Florida Power tries to coordinate testing with PCDEM when possible.

Please advise if Florida Power agrees with our proposal or if further discussion is needed.

Sincerely,

Dan A. Williams, P.E.
District Engineer
Air, IW & HW Programs

DAW/11g
cc: PCDEM

BEST AVAILABLE COPY

copy to PCODE 12/15/82

**Florida
Power**
CORPORATION

November 24, 1982

Mr. W. K. Hennessey
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610-0544

Subject: Opacity Testing Higgins P-1 - A052-58633
 Higgins P-2 - A052-58634
 Higgins P-3 - A052-58635
 Higgins P-4 - A052-58636

Dear Mr. Hennessey:

Florida Power requests that the requirement to conduct annual visible emission tests on the subject units be eliminated. Through September of this year, the total operating time for each unit is as follows:

Higgins P-1 - 14.4 hours
Higgins P-2 - 21.5 hours
Higgins P-3 - 16.4 hours
Higgins P-4 - 15.8 hours

These units operate only during unplanned emergency situations and a significant portion of that operation is on natural gas. It involves considerable cost for our customers to bring them on-line just to conduct a visible emission test. We are unable to determine any corresponding benefit to the environment.

These units have always been in compliance with visible emission standards and will continue in compliance for the useful life of the gas turbines. Your timely consideration of this request would be greatly appreciated.

D. E. R.

DEC 10 1982

**SOUTHWEST DISTRICT
TAMPA**

Mr. W. K. Hennessey
November 24, 1982
Page 2

Should you have any questions concerning this matter, please advise.

Very truly yours,


Dennis A. Shantz, Supervisor
Environmental Services

Shantz(T05)C1-2

cc: R. E. Parnelle
J. Alberdi
F. Denby
T. L. Brouette
Reader's File

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000058635 COE# DER PROCESSOR:RICHARDSON DER OFFICE:TPA
 FILE NAME:FLORIDA POWER CORP DATE FIRST REC: 07/29/82 APPLICATION TYPE:A0
 APPL NAME:FLORIDA POWER CORP APPL PHONE:(813)866-5454 PROJECT COUNTY:52
 ADDR:P O BOX 14042 CITY:ST PETERSBURG ST:FLZIP:33733
 AGNT NAME: AGNT PHONE:() -
 HDR: CITY: ST: ZIP:

RENEWAL INFO REQ: / / / / / / REC: / / / / / /
 APPL COMPLETE DATE: 07/29/82 COMMENTS NEC:Y DATE REQ: / / DATE REC: / /
 LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / /

HEARING REQUEST DATES: / / / / / /
 HEARING WITHDRAWN/DENIED/ORDER -- DATES: / / / / / /
 HEARING ORDER OR FINAL ACTION DUE DATE: / / MANUAL TRACKING DESIRED:N

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 10/22/82 15:41:35
 FEE PD DATE#1:07/29/82 \$0100 RECEIPT#00063822 REFUND DATE: / / REFUND \$
 FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$
 APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE:10/22/82
 REMARKS:RENEWAL OF A052-5704
 HIGGINS #3 PEAKING UNIT

COMPANY NAME

Florida Power Corp

Processor

Qind

File Number 1052-58635

PERMIT APPLICATION STATUS SHEET

Type of permit applied for OPERATION

County Pinellas

Date Recieved 7-29-82

P.E. seal & signature

Check

No check

Letter of corp. standing

CLOCK
DAYS

DATE TASK COMPLETED

INITIALS

3	Logging by Sec'y	<u>8-2-82</u>	<u>Qind</u>
5	Review by Sec. head and transfer to permitting Engineer		
28	Completeness Review		
	request additional info *		
	information received *		
	Public Notice Published * (for Air Construction only)		
55	Letter of Intent sent to * Supervisor		
60	Letter of Intent submitted * to District Manager		
75	Intent to issue/deny mailed *		
80	Permitting Eng'r submit finished permit package & recommendations to supervisor		
83	Permit Package to Dist. Engr.		
85	Permit Package to Dist. Manager	<u>10-22-82</u>	<u>ZW</u>
90	Final Issuance/denial		

*If needed, If not indicate by N/A

Copy to DC 8-2-82

TO: The File
THROUGH: Bill Thomas *WTR*
FROM: George Richardson *scm*
DATE: October 21, 1982
SUBJECT: Florida Power Corporation
AO52-58635

This permit is for the operation of the Higgins Peaking Unit #3 located at Booth Road, Oldsmar, Pinellas, County.

This is one of four units that is used during peak load demand. The main fuel is natural gas with #2 oil as standby.

This source is in compliance. PCDEM and I recommend this permit be issued.

GWR/scm

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION
HIGGINS PLANT - PEAKER UNITS
PINELLAS COUNTY
NEDS NUMBERS: 052-0012-04, 05, 06 and 07
PERMIT NUMBERS: A052-58633, 58634, 58635 and 58636
DATES OF INSPECTION: SEPTEMBER 29 and 30, 1982

The Higgins Combustion Turbine Plant is located in Booth Point, Oldsmar, Florida.

Plant contact person was Mr. Thomas M. Pryslak, Senior Engineer and Plant Superintendent. Mr. Kenneth E. Roy, Mr. Philip M. Watkins and Mr. Stephen Stanbrough performed visible emissions tests. Ramon Solis of Pinellas County Division of Air Quality, D.E.M., performed the inspection.

The peaker units were last inspected on September 8, 1982, but since they were not in operation during the inspection, it was not possible to test them for visible emissions at the time.

Purpose of the inspection of September 29 and 30, 1982 was to perform visible emissions tests on the four peaker units to ascertain their status of compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

The jet engines are normally started with natural gas and then a gradual change is made to fuel oil No. 2. Average fuel consumption for both engines in each one of the peaking units is 96 barrels per hour. Maximum heat input is 566 million BTU/hr.

The old permits to operate these sources, numbers A052-5702, A052-5703, A052-5704 and A052-5705 expired in September 21, 1982. The application for renewal of the permits to operate were received at the DER Southwest District Office on July 29, 1982.

Visible emission tests were performed for all the peaker units. The production rate (output) was 34 MW in unit 1, 25.5 MW in unit 2, 35 MW in unit 3 and 34 MW in unit 4.

Average opacity during the worst six minutes of operation was 10% for unit 1, 14% for unit 2, 8% for unit 3 and 12% for unit 4.

The Higgins Combustion Turbine Plant is considered to be in compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

BEST AVAILABLE COPY VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME FLORIDA POWER CORP
 HIGGINS PLANT PEAKER UNIT NO. 1
 ADDRESS BOOTH POINT
 OLDSMAR

SOURCE ID NUMBER A52 58633
 OBSERVATION DATE 9/30/82
 OBSERVER'S NAME (PRINT) RAMON SOLIS
 ORGANIZATION PINELLAS COUNTY DIVISION OF AIR ENVIRONMENT

STATE FLORIDA
 ZIP
 PHONE 855-1485

CERTIFIED BY ETA / DEE

DATE 9/14/82



PROCESS PEAKER UNIT NO. 1
 HIGGINS PLANT (GAS TURBINE)
 CONTROL EQUIPMENT NONE

OPERATING MODE FULL LOAD
 START TIME 2:15
 STOP TIME 2:45

DESCRIBE EMISSION POINT RECTANGULAR SMOKESTACK
 EMISSION POINT HEIGHT ABOVE GROUND LEVEL 53'
 EMISSION POINT HEIGHT RELATIVE TO OBSERVER 53'
 DISTANCE TO EMISSION POINT 200'
 DIRECTION TO EMISSION POINT 320°

	0	15	30	45		0	15	30
1	10	10	10	10	31			
2	10	10	10	10	32			
3	10	10	10	10	33			
4	10	10	10	10	34			
5	10	10	10	10	35			
6	10	10	10	10	36			
7	10	10	10	10	37			
8	10	10	10	10	38			
9	10	10	10	10	39			
10	10	10	10	10	40			
11	10	10	10	10	41			
12	10	10	10	10	42			
13	10	10	10	10	43			
14	10	10	10	10	44			
15	10	10	10	10	45			
16	10	10	10	10	46			
17	10	10	10	10	47			
18	10	10	10	10	48			
19	10	10	10	10	49			
20	10	10	10	10	50			
21	10	10	10	10	51			
22	10	10	10	10	52			
23	10	10	10	10	53			
24	10	10	10	10	54			
25	10	10	10	10	55			
26	10	10	10	10	56			
27	10	10	10	10	57			
28	10	10	10	10	58			
29	10	10	10	10	59			
30	10	10	10	10	60			

DESCRIBE EMISSIONS SMOKE EXHAUST

COLOR OF EMISSIONS BLACK
 CONTINUOUS FUGITIVE
 INTERMITTENT

WATER VAPOR PRESENT YES
 IF YES, IS PLUME ATTACHED N/A DETACHED

AT WHAT POINT WAS OPACITY DETERMINED
 10' ABOVE STACK EXHAUST

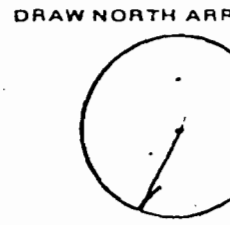
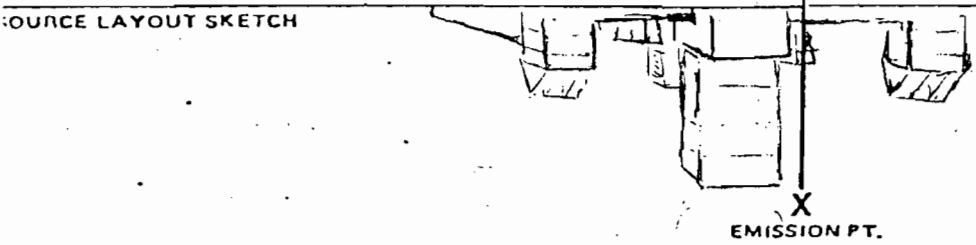
DESCRIBE BACKGROUND SKY

COLOR OF BACKGROUND BLUE / WHITE
 SKY CONDITIONS 30% cc
 WIND SPEED 15 MPH
 WIND DIRECTION NE
 AMBIENT TEMPERATURE 80°F
 RELATIVE HUMIDITY 75%

COMMENTS

AVERAGE OPACITY W/ST & MIN 10%
 NUMBER OF READINGS ABOVE 20 % WERE 0

RANGE OF OPACITY READINGS FROM 10% TO 10%



OBSERVER'S SIGNATURE Ramon Solis
 DATE 9/30/82

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
 SIGNATURE
 TITLE
 DATE

SOURCE NAME **FLORIDA POWER & LIGHT CO.
HIGGINS PLANT PEAKER No. 2**
ADDRESS **BOOTH POINT
OLDSMAR**
STATE **FLORIDA** ZIP **33558** PHONE **855-1485**

SOURCE ID NUMBER **A052-58634** OBSERVATION DATE **9/29/82**
OBSERVER'S NAME (PRINT) **RAMON SOLIS**
ORGANIZATION **PINELLAS COUNTY DIVISION OF AIR QUALITY**
CERTIFIED BY **ETA/DER**

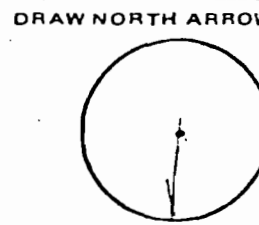
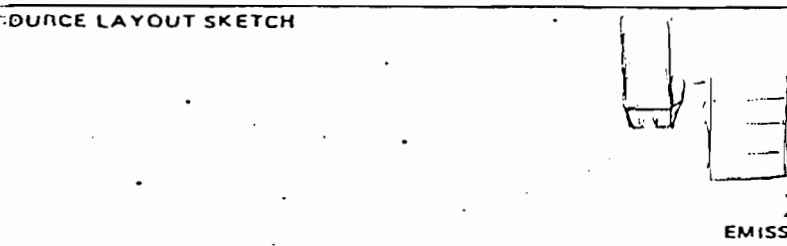


DATE **9/14/82**

PROCESS POWER GENERATION **JET ENGINE TURBINES**
OPERATING MODE **FULL LOAD**
CONTROL EQUIPMENT **NONE**
OPERATING MODE
DESCRIBE EMISSION POINT **RECTANGULAR
SMOKE STACK**
EMISSION POINT HEIGHT ABOVE GROUND LEVEL **53'**
EMISSION POINT HEIGHT RELATIVE TO OBSERVER **53'**
DISTANCE TO EMISSION POINT **200'**
DIRECTION TO EMISSION POINT **N-NW**
DESCRIBE EMISSIONS **SMOKE EXHAUST**
COLOR OF EMISSIONS **BLACK**
CONTINUOUS FUGITIVE
INTERMITTENT
WATER VAPOR PRESENT YES NO
IF YES, IS PLUME ATTACHED DETACHED
ATTACHED **N/A**
AT WHAT POINT WAS OPACITY DETERMINED **10' ABOVE STACK**
DESCRIBE BACKGROUND **SKY**
COLOR OF BACKGROUND **BLUE/WHITE**
SKY CONDITIONS **40% CC**
WIND SPEED **10 MPH**
WIND DIRECTION **NE**
AMBIENT TEMPERATURE **85° F**
RELATIVE HUMIDITY **80%**
COMMENTS

START TIME 2:27					STOP TIME 2:57				
	0	15	30	45	0	15	30		
1	5	10	10	10	31				
2	10	10	10	10	32				
3	10	10	10	10	33				
4	10	10	10	10	34				
5	10	10	10	10	35				
6	10	10	10	10	36				
7	10	10	10	10	37				
8	10	10	10	10	38				
9	10	10	10	10	39				
10	10	10	15	15	40				
11	15	15	15	15	41				
12	15	15	15	15	42				
13	15	15	15	15	43				
14	15	15	15	15	44				
15	15	15	15	15	45				
16	15	10	10	10	46				
17	10	10	10	10	47				
18	10	10	10	10	48				
19	10	10	10	10	49				
20	10	10	10	10	50				
21	10	10	10	10	51				
22	10	10	10	10	52				
23	10	10	10	10	53				
24	5	5	5	5	54				
25	5	5	5	5	55				
26	5	5	5	5	56				
27	5	5	5	5	57				
28	5	5	5	5	58				
29	5	5	5	5	59				
30	5	5	5	5	60				

AVERAGE OPACITY WORST 6 MIN **14%** NUMBER OF READINGS ABOVE **20** % WERE **0**
RANGE OF OPACITY READINGS FROM **5** TO **15**



SERVER'S SIGNATURE **Ramon Solis** DATE **9/29/82** I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.
CERTIFIED BY _____ SIGNATURE _____ TITLE _____ DATE _____

FAPTR 101 BEST AVAILABLE COPY VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME **FLORIDA POWER & LIGHT CO. (CORPORATION)**
HIGGINS PLANT PECKER NO. 3
 ADDRESS **BOOTH POINT**
OLDSMAR
 STATE **FLORIDA** ZIP **32709** PHONE **855-1485**

SOURCE ID NUMBER **AC 2-38635** OBSERVATION DATE **9/29/82**
 OBSERVER'S NAME (PRINT) **RAMON SOLIS**
 ORGANIZATION **PINELLAS COUNTY DIVISION OF AIR QUALITY**
 CERTIFIED BY **ETA/DER**



No. 3 DATE **9/14/82**

PROCESS POWER GENERATION **JET ENGINE TURBINES** OPERATING MODE **FULL LOAD**
 CONTROL EQUIPMENT **NONE** OPERATING MODE
 DESCRIBE EMISSION POINT **RECTANGULAR SMOKE STACK**

START TIME **2:01** STOP TIME **2:31**

EMISSION POINT HEIGHT ABOVE GROUND LEVEL **53'** EMISSION POINT HEIGHT RELATIVE TO OBSERVER **53'**
 DISTANCE TO EMISSION POINT **200'** DIRECTION TO EMISSION POINT **N-NE**

	0	15	30	45	0	15	30
1	10	10	10	10	31		
2	10	10	10	10	32		
3	10	10	10	10	33		
4	5	10	10	10	34		
5	10	10	5	5	35		
6	5	5	5	5	36		
7	5	5	5	5	37		
8	5	5	5	5	38		
9	10	10	10	10	39		
10	10	10	10	10	40		
11	10	10	5	5	41		
12	5	10	10	10	42		
13	10	10	10	5	43		
14	5	5	5	5	44		
15	10	10	10	10	45		
16	10	10	10	10	46		
17	5	5	10	10	47		
18	10	10	10	10	48		
19	10	10	10	10	49		
20	5	5	5	5	50		
21	5	5	5	5	51		
22	5	5	5	5	52		
23	5	5	5	5	53		
24	5	5	5	5	54		
25	5	5	5	5	55		
26	5	5	5	5	56		
27	5	5	5	5	57		
28	5	5	5	5	58		
29	10	10	10	10	59		
30	10	10	10	10	60		

DESCRIBE EMISSIONS **SMOKE EXHAUST**

COLOR OF EMISSIONS **BLACK** CONTINUOUS FUGITIVE
 INTERMITTENT

WATER VAPOR PRESENT YES IF YES, IS PLUME ATTACHED N/A DETACHED

AT WHAT POINT WAS OPACITY DETERMINED **10' ABOVE SMOKE STACK**

DESCRIBE BACKGROUND **SKY** COLOR OF BACKGROUND **BLUE/WHITE** SKY CONDITIONS **40% CC**

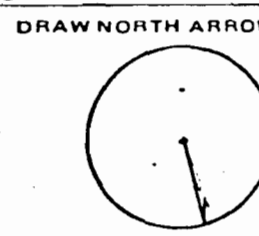
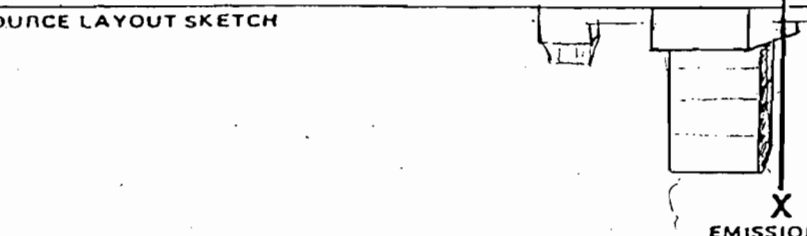
WIND SPEED **10 MPH** WIND DIRECTION **NE**

AMBIENT TEMPERATURE **85°F** RELATIVE HUMIDITY **80%**

COMMENTS

AVERAGE OPACITY WORST 6 MIN **8%** NUMBER OF READINGS ABOVE **20** % WERE **0**

RANGE OF OPACITY READINGS FROM **5** TO **10%**



SERVER'S SIGNATURE **Ramon Solis** DATE **9/29/82**

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS. SIGNATURE _____ TITLE _____ DATE _____

EPA FORM 701 BEST AVAILABLE COPY VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME **FLORIDA POWER CORPORATION
HIGGINS PLANT, PEAKER NO. 4**

ADDRESS **BOOTH POINT
OLDSMAR**

SOURCE ID NUMBER **A052-58636**

OBSERVATION DATE **9/29/82**

STATE **FLORIDA**

ZIP **33558**

PHONE **855-1485**

CERTIFIED BY **ETA/DER**



No. **9** DATE **9/14/82**

PROCESS POWER GENERATION **JET ENGINE TURBINES**

OPERATING MODE **FULL LOAD**

CONTROL EQUIPMENT **NONE**

OPERATING MODE

START TIME **2:01**

STOP TIME **2:26**

DESCRIBE EMISSION POINT **RECTANGULAR SMOKESTACK**

EMISSION POINT HEIGHT ABOVE GROUND LEVEL **53'**

EMISSION POINT HEIGHT RELATIVE TO OBSERVER **53'**

DISTANCE TO EMISSION POINT **200'**

DIRECTION TO EMISSION POINT **N-NE**

	10	15	30	45	
1	10	10	10	10	31
2	10	10	10	10	32
3	10	10	10	10	33
4	10	10	10	10	34
5	10	10	10	10	35
6	10	10	10	10	36
7	10	10	10	10	37
8	10	10	10	10	38
9	10	10	10	10	39
10	10	10	10	10	40
11	10	10	10	10	41
12	10	10	10	10	42
13	10	10	10	10	43
14	10	10	10	10	44
15	10	10	10	10	45
16	10	10	10	10	46
17	10	10	10	10	47
18	10	10	10	10	48
19	10	10	10	10	49
20	10	10	10	10	50
21	15	15	15	15	51
22	15	15	15	15	52
23	15	10	10	10	53
24	10	10	10	10	54
25	10	10	10	10	55
26					56
27					57
28					58
29					59
30					60

DESCRIBE EMISSIONS **SMOKE EXHAUST**

COLOR OF EMISSIONS **BLACK**

CONTINUOUS FUGITIVE

INTERMITTENT

WATER VAPOR PRESENT YES

IF YES, IS PLUME ATTACHED N/A DETACHED

AT WHAT POINT WAS OPACITY DETERMINED **10 FT ABOVE STACK**

DESCRIBE BACKGROUND **SKY**

COLOR OF BACKGROUND **BLUE/WHITE**

SKY CONDITIONS **30% CC-40%**

WIND SPEED **10**

WIND DIRECTION **NE**

AMBIENT TEMPERATURE **85°**

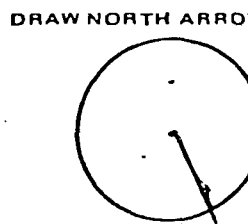
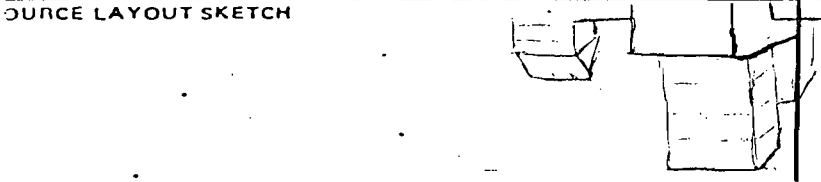
RELATIVE HUMIDITY **80%**

COMMENTS

AVERAGE OPACITY WORST 6 MIN **12%**

NUMBER OF READINGS ABOVE **20** % WERE **0**

RANGE OF OPACITY READINGS FROM **10** TO **15%**



OBSERVER'S SIGNATURE **Ramon Solis**

CERTIFIED BY

DATE **9/29/82**

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.

SIGNATURE

TITLE

DATE

DER

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION
HIGGINS PLANT - PEAKER UNITS
PINELLAS COUNTY

NEDS NUMBERS: 052-0012-04, 05, 06 and 07
PERMIT NUMBERS: A052-58633, 58634, 58635 and 58636
DATE OF INSPECTION: SEPTEMBER 8, 1982

The Higgins Combustion Turbine Plant is located in Booth Point, Oldsmar, Florida.

Plant contact person was Mr. Thomas M. Pryslak, Senior Engineer and Plant Superintendent. Ramon Solis of Pinellas County Division of Air Quality performed the inspection.

The existing 4 peaking units were constructed with 1960 technology. Each unit consists of two Pratt & Whitney jet engines which drive another turbine inside an expander chamber, by means of their exhaust gas thrust. A transmission shaft connects the turbine in the expander chamber with an electrical generator. The peaking units operate as an emergency back-up plant for the Florida Power Production Department. The Higgins peaking plant is the only one with dual capability to burn either natural gas or fuel oil No. 2. Currently, the cost of operating with natural gas is \$3.50/million BTU, whereas it costs \$7.00/million BTU to operate with oil No. 2. The Babcock & Wilcox steam boilers in the main plant operate at a cost of \$5.80/million BTU. However, the peakers operate most of the time on fuel oil No. 2 due to fuel availability, especially during the winter season. Enclosed is a table of the number of hours of operation and the fuel usage by the Higgins peaking units from 1977 to 1981.

NUMBER OF HOURS AND FUEL USAGE
HIGGINS PEAKING TURBINE GENERATORS

Year	Unit No. 1			Unit No. 2			Unit No. 3			Unit No. 4		
	Hours	Oil	Gas	Hours	Oil	Gas	Hours	Oil	Gas	Hours	Oil	Gas
1977	272	219	82	280	641	35	326	147	131	307	558	80
1979	221	428	31	229	341	28	280	628	42	287	665	42
1980	483	763	89	401	510	72	357	649	58	332	711	61
1981	34	73	0.1	191	345	21	143	320	24	149	364	16

Oil units are 10^3 gal.
Gas units are 10^6 cu. ft.

The last time the peakers were in operation, was in June 1982, when the Crystal River Nuclear Plant was down.

Compliance Verification Inspection
Florida Power Corporation
Higgins Plant - Peaker Units
Date of Inspection: September 8, 1982
Page -2-

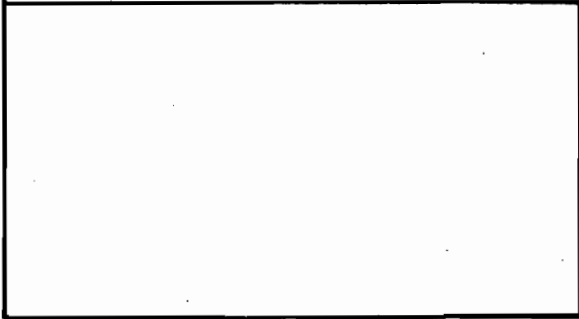
At the time of the inspection, the peakers were not in operation and therefore no visible emissions tests were performed. Mr. Prysak will report back at the first opportunity to test the units.

Pending performance of the above mentioned tests, the Higgins Peaking Units Plant is considered to be in unknown status of compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/jh

RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION HILGINS P-3
 PERMIT NUMBER A052-5704
 DATE 9/29/82
 TYPE FACILITY Comb TURBINE
 CONTROL DEVICE NONE



HOURS OF OBSERVATION 1400-1429
 OBSERVER KE Roy
 OBSERVER CERTIFICATION DATE 3/17/82
 POINT OF EMISSIONS STACK
 HEIGHT OF DISCHARGE POINT 40'

CLOCK TIME

Initial			Final
14:00			14:29
OBSERVER LOCATION			
Distance to Discharge	200'		
Direction from Discharge	S		
Height of Observation Point	Ground		
BACKGROUND DESCRIPTION	BLUE SKY CLOUDS		
WEATHER CONDITIONS			
Wind Direction	NE		
Wind Speed	10-12		
Ambient Temperature	85°		
SKY CONDITIONS (clear, overcast, % clouds, etc.)	30% CLOUDS		
PLUME DESCRIPTION			
Color			
Distance Visible			
Other Information			

SUMMARY OF AVERAGE OPACITY

Set Number	Time	Opacity	
	Start--End	Sum	Average
1	1400-1429	900	7.5

Readings ranged from 5 to 10 % opacity.

The source was/was not in compliance with 7.5 at the time evaluation was made.

NOTES:

1. Minimum of 24 readings to be taken at 15 second intervals.

2. Readings are to be to the nearest 5% opacity.

HIGGINS UNIT 3

OBSERVATION RECORD

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		COMMENTS
		0	15	30	45	Attached	Detached	
14:00	0	10	10	10	10			
	1	10	10	10	10			
	2	10	10	10	10			
	3	10	10	10	10			
	4	10	10	10	10			
	5	10	10	10	10			2:40
	6	5	5	5	5			
	7	5	5	5	5			
	8	5	5	5	5			
	9	5	5	5	5			
	10	5	5	5	5			
	11	5	5	5	5			
	12	5	5	5	5			
	13	5	5	5	5			
	14	5	5	5	5			1:00
	15	10	10	10	10			
	16	10	10	10	10			
	17	10	10	10	10			
	18	10	10	10	10			
	19	10	10	10	10			
	20	10	10	10	10			
	21	5	5	5	5			
	22	5	5	5	5			
	23	5	5	5	5			
	24	5	5	5	5			
	25	5	5	5	5			
	26	5	5	5	5			1:00
	27	10	10	10	10			
	28	10	10	10	10			
14:31	29	10	10	10	10			1:00
	30							
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

THIS IS TO CERTIFY THAT

Kenneth E. Roy has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.

This certificate expires on *Oct. 15, 1982*
Judi Sears Certification Officer
Kenneth E. Roy Bearer's Signature
DER Form PERM 5-9 (Jun 79)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

DER.

FEB 18 1982

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

SOUTHWEST DISTRICT
TAMPA

For each permitted emission point, please submit a separate report for calendar year 1981 prior to March 1st of the following year.

I. GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Higgins Peaker #3)
2. Permit Number: A052-5704
3. Source Address: P.O. Box 3, Oldsmar, FL 33557
4. Description of Source: Gas Turbine

II. OPERATING SCHEDULE: 24 hrs/day 7 day/wk 52 wks/yr
Operated 142.8 hours in 1981

III. RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
<u>N/A</u>		tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
Product Output (tons/yr - cubic feet/yr)	_____	_____

IV. TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1%S).

<u>24.575</u> 10 ⁶ Cu. Ft. Natural Gas	<u>320.50</u> 10 ³ gallons No. 2 Oil, <u>0.26</u> %S
<u> </u> 10 ³ gallons Propane	<u> </u> 10 ³ gallons Kerosene
<u> </u> tons Coal	<u> </u> 10 ⁶ lb Black Liquor Solids
<u> </u> tons Carbonaceous	<u> </u> tons Refuse
Other (Specify type and units) _____	

V. EMISSION LEVEL (tons/yr):

A. <u>0.97</u> Particulates	<u> </u> Carbon Monoxide
<u>15.93</u> Nitrogen Oxide	<u> </u> Total Reduced Sulfur
<u> </u> Hydrocarbon	<u> </u> Flouride
<u>5.83</u> Sulfur Dioxide	
Other (Specify type and units) _____	

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.): Emission factors from AP-42.

VI. CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

G. C. Moore
Signature of Owner or Authorized Representative

G. C. Moore
Vice President, Power Production

COMPLIANCE VERIFICATION INSPECTION

Florida Power Corporation - Higgins Plant
Pinellas County

NEDS Nos. - 3600-052-0012-02 through 3600-052-0012-07

DER Nos. - A052-5702 through A052-5705 and A052-6207, A052-6593

Date of Inspection: September 26, 1978

Florida Power Corporation's Higgins Plant is located on Shore Drive in Oldsmar, Florida, Pinellas County. This plant was inspected by Robert Barker of this office on September 26, 1978.

The facility consists of three steam generators. Unit 1 is rated at 42 MW, 488 x 10⁶ BTU's, Unit 2 is rated at 45 MW, 511 x 10⁶ BTU's and Unit 3 at 45 MW 512 x 10⁶ BTU's. These are fired by No. 6 fuel oil and natural gas when available. Fuel is burned in boilers to generate steam which drives the turbines to turn the generators that produce electricity. Pollutants from the stacks are particulates, NO_x and SO₂.

The plant has four peaking units (diesel turbines) which are fired by No. 2 fuel oil and natural gas. These units are operated during peak periods when demand for electricity is greatest. Fuel is burned in the combustion section of the diesel unit producing hot gases that drives the turbines to the generators producing electricity.

Provisos to permits of the peaking units require visible emissions tests annually. Provisos to permits for the steam generators require annual testing for particulates and SO₂. Units 1,2, and 3 steam generators are on a 24-hour, 7-day, 52-week year schedule.

Power Company submits quarterly fuel report as well as an emissions report to the Department of Environmental Regulation. Florida Power has its own stack sampling team who sample the stacks for particulates and SO₂ as well as being qualified to read visible emissions. Units have shown compliance with Chapter 17-2. Permits #6207 and #6593 expire in 1983. Permits 5701-5704 expire September 21, 1982. Permit for #1 steam generator A052-2040 expired 1975. Units 1,2 and 3 steam generators are being removed and replaced with diesel peaking units. According to Bill Brown of the Air Section, applications have been submitted by Florida Power to this Department and are being processed for these units.

RB:klm

STATE OF FLORIDA
 DEPARTMENT OF ENVIRONMENTAL RECREATION
 ANNUAL OPERATIONS REPORT FORM
 FOR AIR EMISSIONS SOURCES

BEST AVAILABLE COPY

For each permitted emission point, please submit a separate report for calendar year 1977 prior to March 1st of the following year.

I GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Higgins Peaker #3)
 2. Permit Number: A052-5704
 3. Source Address: OTdsmar, Fla.
 4. Description of Source: Jet Peaking Unit

P E R

MAR 7 1978

SOUTHWEST DISTRICT
TAMPA

II OPERATING SCHEDULE: 24 hrs/day 7 days/wk 52 wks/yr
 Operated 326.6 hrs. in 1977

III RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
N/A		tons/yr
		tons/yr
		tons/yr
		tons/yr
		tons/yr

IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil, specify weight and sulfur content (e.g., No. 6 oil with 1%S).

131.37 10⁶ cubic feet Natural Gas 147.55 10³ gallons No. 2 Oil, 0.2 %S
 _____ 10³ gallons Propane _____ 10³ gallons Kerosene
 _____ tons Coal _____ 10⁶ lb Black Liquor Solids
 _____ tons Carbonaceous _____ tons Refuse
 Other (Specify type and units) _____

V EMISSION LEVEL (tons/yr):

A. 0.52 Particulates _____ Carbon Monoxide
7.32 Nitrogen Oxide _____ Total Reduced Sulfur
 _____ Hydrocarbon _____ Fluoride
2.25 Sulfur Dioxide
 Other (Specify type and units) _____

B. Method of calculating emission rates (e.g., use of fuel analysis and materials balance, emission factors drawn from AP 42, etc.)
 Test date from similar unit _____

VI CERTIFICATION:

I hereby certify that the information given in this report is correct to the best of my knowledge.

W. P. Stewart
 Signature of Owner or Authorized Representative
 W. P. Stewart, Director, Power Production
 Typed Name and Title
 March 3, 1978
 Date

INTEROFFICE MEMORANDUM

For Routing To District Offices
And/Or To Other Than The Addressee

To: _____	Loctn.: _____
To: _____	Loctn.: _____
To: _____	Loctn.: _____
From: _____	Date: _____

TO: File

THRU: Dan A. Williams

FROM: William H. Brown *WB*

RE: Florida Power Corporation, Higgins

Unit #1 is a 42 MW, 488×10^6 BTU steam generator, in 1977 it operated 5503.4 hours using 382.1×10^6 cu. ft. natural gas and 8940×10^3 gal. of #6 fuel oil with 2.3% sulfur or a discharge of 1676 tons SO_2 /yr. and 61 T/yr. TSP.

✓ Unit #2 is a 45 MW 511×10^6 BTU steam generator. In 1977 it operated 6620.3 hours burning 362.8×10^6 cu. ft. of natural gas 13321×10^3 gal. #6 fuel oil, 1.9×10^6 gal #2 fuel oil the emissions were 69 T/yr. TSP, 408.5 T/yr. NO_x , and 2500 T/yr. TSP.

Unit #3 is a 45 MW 512×10^6 BTU steam generator. In 1977 it operated 5089.8 hours burning 13582.3×10^3 gal. #6 fuel oil 1.34×10^6 gal. #2 oil with an emission of 85.6 T/yr. TSP, 425 T/yr. NO_x and 2547 T/yr. SO_2 .

This facility has four peaking deisel turbines. The total installation emits 221.6 T/yr. TSP, 1309.6 T/yr. NO_x , 6747 T/yr. SO_2 .

This operation on Recon had less than 20% opacity and seemed to be in compliance.

OBSERVATION RECORD

D. E. R.

AUG 23 1977

SOUTH WEST DISTRICT
ST. PETERSBURG

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		COMMENTS
		0	15	30	45	Attached	Detached	
	0	0	0	0	0			
	1	0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	4	0	0	0	0			
	5	0	0	0	0			
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



LOCATION HIGGINS P-3
 PERMIT NUMBER A252-3119
 DATE _____
 TYPE FACILITY PERKING UNIT
 CONTROL DEVICE _____

Dennis A. Shantz has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on Oct. 13, 1977

[Signature]
 Certification Officer

[Signature]
 Bearer's Signature

TY

HOURS OF OBSERVATION _____
 OBSERVER Dennis Shantz
 OBSERVER CERTIFICATION DATE _____
 POINT OF EMISSIONS _____
 HEIGHT OF DISCHARGE POINT 40 FEET

	Initial		Final
CLOCK TIME			
OBSERVER LOCATION			
Distance to Discharge	200 ft		
Direction from Discharge	NW		
Height of Observation Point	GROUND		
BACKGROUND DESCRIPTION			
WEATHER CONDITIONS			
Wind Direction	SE		
Wind Speed	0.5		
Ambient Temperature	95		
SKY CONDITIONS (clear, overcast, % clouds, etc.)	CLEAR		
PLUME DESCRIPTION			
Color	CLEAR		
Distance Visible	-		
Other Information	-		

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start--End	Opacity	
		Sum	Average
1	2:00 - 2:06	0	0

Readings ranged from 0 to 0 % opacity.

The source was/was not in compliance with 0 at the time evaluation was made.

NOTES:

1. Minimum of 24 readings to be taken at 15 second intervals.
2. Readings are to be to the nearest 5% opacity.

D. E. R.
 AUG 23 1977
 SOUTH WEST DIST.
 ST. PETERSBURG

OBSERVATION RECORD

D.E.R.

AUG 23 1977

COMMENTS SOUTH WEST DISTRICT
ST. PETERSBURG

Hr.	Min.	SECONDS				STEAM PLUME (check if applicable)		
		0	15	30	45	Attached	Detached	
	0	0	0	0	0			
	1	0	0	0	0			
	2	0	0	0	0			
	3	0	0	0	0			
	4	0	0	0	0			
	5	0	0	0	0			
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STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



LOCATION HIGGINS P-3
 PERMIT NUMBER A052-3119
 DATE _____
 TYPE FACILITY PEAKING UNIT
 CONTROL DEVICE _____

Dennis A. Shantz, has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on Oct. 13, 1977

[Signature]
 Certification Officer

[Signature]
 Bearer's Signature

TY

HOURS OF OBSERVATION _____
 OBSERVER DENNIS SHANTZ
 OBSERVER CERTIFICATION DATE _____
 POINT OF EMISSIONS _____
 HEIGHT OF DISCHARGE POINT 40 FEET

CLOCK TIME

OBSERVER LOCATION
 Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS
 Wind Direction

Wind Speed

Ambient Temperature

SKY CONDITIONS (clear, overcast, % clouds, etc.)

PLUME DESCRIPTION
 Color

Distance Visible

Other Information

	Initial		Final
CLOCK TIME			
OBSERVER LOCATION Distance to Discharge	200 ft		
Direction from Discharge	NW		
Height of Observation Point	GROUND		
BACKGROUND DESCRIPTION			
WEATHER CONDITIONS Wind Direction	SE		
Wind Speed	0-5		
Ambient Temperature	95		
SKY CONDITIONS (clear, overcast, % clouds, etc.)	CLEAR		
PLUME DESCRIPTION Color	CLEAR		
Distance Visible	-		
Other Information	-		

SUMMARY OF AVERAGE OPACITY

Set Number	Time Start--End	Opacity	
		Sum	Average
1	2:00 - 2:06	0	0

Readings ranged from 0 to 0 % opacity.

The source was/was ~~not~~ in compliance with 0 at the time evaluation was made.

NOTES:

1. Minimum of 24 readings to be taken at 15 second intervals.
2. Readings are to be to the nearest 5% opacity.

DEFERRED
 AUG 23 1977
 SOUTH WEST DISTRICT
 ST. PETERSBURG

SOURCE

FP & L Higgins P 3

DATE

9-23-77

COUNTY

PINELLAS

TYPE PERMIT

0

ACTION

INITIAL WHEN COMPLETED

DATE

Preliminary Review

SWR

9-23-77

Assigned for Review to

Review Comments

I have reviewed the plans and applications submitted and find that the above mentioned source will not reasonably be expected to cause pollution in violation of the Department standards, rules and regulations. I recommend approval of this permit.

George W Richardson

Number Assigned

10-6-77
SWR

P053-5704

9-23

Permit Issued & Signed

Permit Logged

Permit Mailed

Data Forms Completed

Permit Denied

New Source (No related permits)	_____	Boiler	_____
Renewed or modified permit	<u>X</u>	Solid Waste (Incinerator)	_____
Point source deleted	_____	Other Combustion	<u>X</u>
Point source added	_____	Process	_____
New Source replacing old source	_____	Product (Name)	_____

BRIEF DESCRIPTION OF PROCESS

this is a gas or oil fired turbine used to produce electricity at peak times during

varies

OPERATING TIME: _____ HR/D2 _____ D2/WK _____ WK/YR

<u>STACK DATA</u>		<u>OPERATING DATA</u>	
Height (FT)	_____	Process Rate	_____ #/HR
Diam. (FT)	_____	Process Rate	_____ TON/HR
Temp. (°F)	_____	Max Design Rate	_____ #/HR
Flow Rate (CFM)	_____	Combustion (Units) Gal TONS	_____ EA
Plume Height (FT)	_____	Rate _____ Unit/HR	_____ Unit/
Common Stack (Explain)	_____	Heat Content	_____ BTU/G
		Boiler Capacity	_____ BTU/E
		Max Design Rate	_____ Unit/
		Fuel (Name)	_____ \$S _____ \$A

COMMENTS:

Fuel Usage JAN thru July 1977
NAT GAS 121099 MCF
#2 OIL 26377 bbl 0.07 % S

P. 3 RAN 208.5 HRS IN 1976 WITH AVG OUTPUT OF 31.4 MW

$$SO_2 = \frac{2637 \times 42 \times 7.7 \times 4 \times .0007}{2000} = 1.2 \text{ Tons/Yr.}$$

Pollutant

Control Method

% Eff.

Particulates

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Particulates

Particulates

SO₂

NO_x

HC

F⁻

EMISSIONS

POLLUTANT	lb/hr		lb/ton Product		lb/10 ⁶ BTU		Regulation
	Emission	Allowable	Emission	Allowable	Emission	Allowable	
Particulate							
SO ₂							
NO _x							
	0%	20%					

CAPACITY Test _____ Allowable _____

BASIS FOR ESTIMATE

- Stack Test Results Date _____ Report Received _____
- V. E. Test Date 8-17-77 Report Received 8-23-77
- Other tests or emission measurement _____
- Material balance of process using engineering knowledge _____
- Emissions calculated using EPA emission factors _____
- Other Method (Describe): _____

VISIBLE EMISSION FIELD REPORT

BEST AVAILABLE COPY

**FLORIDA POWER CORPORATION
P.O. BOX 14042, ST. PETE., FLA. 33733**

DATE 21 Sept 76
TIME 1400

PERMIT NUMBER A0 52 3119
SOURCE NAME Higgins P-3 COUNTY Pinellas
SOURCE LOCATION Oldsmar, Fla
SOURCE DESCRIPTION (TYPE) Gas Turbine
POINT OF OBSERVATION Southeast
DISTANCE TO SOURCE 100 ft

MIN	SECONDS				MIN	SECONDS			
	0	15	30	45		0	15	30	45
0	5		5		30				
1	5		5		31				
2	5		5		32				
3	5		5		33				
4	5		5		34				
5	5		5		35				
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28	5		5		58				
29	5		5		59				

DIRECTION OF OBSERVER FROM SOURCE Southeast

DIRECTION OF WIND FROM SOURCE West

WIND VELOCITY 5

DIRECTION OF SUN FROM SOURCE South

CLOUD COVERAGE (IN %) 50%

NOTE:

1. MINIMUM OF 25 READINGS MUST BE TAKEN.
2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST 5% OPACITY.

SUM OF OPACITY READINGS 300

TOTAL NUMBER OF READINGS 60

OPACITY = $\frac{\text{SUM OF OPACITY READINGS}}{\text{TOTAL NUMBER OF READINGS}}$ = 5%

OBSERVER Dennis A. Shantz

NOTES -

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



Dennis Shantz

....., has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.

This certificate expires on November 5, 1976

[Signature] Certification Officer [Signature] Bearer's Signature

ANNUAL OPERATING REPORT
Calendar year 1976

Submit a separate report for each permitted source by FEBRUARY 28, 1977

D. E. R.

SECTION 1: General

SOURCE NAME: HIGGINS P-3

MAILING ADDRESS: FLORIDA POWER CORPORATION

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

TELEPHONE NO: 813/866-4544

OPERATING PERMIT NO: AO52-3119

SOURCE DESCRIPTION: Gas Turbine

MAR 10 1977

SOUTH WEST DISTRICT
ST. PETERSBURG

SECTION 2: PROCESS OPERATIONS:

- a. DURATION OF OPERATION AND FREQUENCY: 280.5 hours (1976)
24 hrs/dy 7 dys/wk 52 wk/yr
e.g. 8 hrs perday, 5 dys per wk and 50 wk/yr.
- b. DESIGN CRITERIA: MAXIMUM OUTPUT 42.9 MW
e.g. 850 MW, 750 tons/dy
- c. NORMAL(AVERAGE) OUTPUT 31.4 MW = $\frac{\text{Gross Generation}}{\text{Hours Operated}}$
e.g. 424 MW, 670 tons/dy.
- d. MAXIMUM PEAK THAT OCCURED DURING ANY ONE DAY 42.9 MW
e.g. 910 MW, 810 tons/dy.

SECTION 3: TOTAL AMOUNT OF MATERIALS USED/PROCESSED, COMPUTED ON THE SAME BASIS AS PROCESS WEIGHT:

TYPE(MATERIAL)	INPUT PROCESS WEIGHT- DRY
N/A	N/A tons/yr
	tons/yr
	tons/yr
	tons/yr

SECTION 4: TOTAL AMOUNT OF FUEL USED. IF FUEL IS OIL, SPECIFY WEIGHT, e.g. NO 2, and % sulfur by weight. INCLUDE STANDBY FUELS.

112.6	10 ⁶ cu ft gas	140.2	10 ³ gal NO. 2 OIL	0.18% SULFUR
	10 ³ gal PROPANE		10 ³ gal KEROSENE	
	tons COAL		10 ⁶ lb BLACK LIQUOR SOLIDS	
OTHER, specify type and units				

SECTION 5: EMISSION: ESTIMATED/TESTED EMISSIONS(TONS PER YEAR)

- a. Not tested tons of particulates 1.8 tons of sulfur dioxide
- Not Tested tons of nitrogen dioxide Not Tested tons of carbon monoxide
- Not Tested tons of hydrocarbon _____ tons _____ (other)

- b. STATE METHOD OF CALCULATIONS USED IN DETERMINING EMISSION RATES
 $\left(\frac{\text{Lbs Oil}}{\text{Gas Oil}}\right) \left(\frac{42 \text{ Gal}}{\text{BBL}}\right) (\% \text{ S}) \left(\frac{2 \text{ Lbs SO}_2}{\text{Lb S}}\right) (\text{BBLs}) \left(\frac{\text{Ton}}{2000 \text{ Lbs}}\right) = \text{Tons SO}_2$

ANNUAL OPERATING REPORT
calendar year 1976

SECTION 5 (cont't)

c. STACK TESTED: NONE date _____

STACK TEST CONDITIONS: _____ PROCESS RATE DURING TEST _____

STACK TEST CONDUCTED BY: _____

STACK TEST WITNESSED BY: _____

SECTION 6: OPERATIONAL PROBLEMS, IF ANY: NORMAL

a. IMPROVEMENTS MADE TO PROCESS/POLLUTION CONTROL EQUIPMENT: NONE

b. TYPE OF MAINTENANCE PERFORMED: ROUTINE

c. NUMBER OF UPSETS LASTING MORE THAN FOUR HOURS DURING THE YEAR: UNKNOWN

d. NUMBER OF UPSETS LASTING MORE THAN ONE HOUR BUT NOT MORE THAN FOUR HOURS: UNKNOWN

e. NUMBER OF UPSETS LASTING LESS THAN ONE HOUR: UNKNOWN

CERTIFICATION:

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IN THIS REPORT IS CORRECT TO THE BEST OF MY KNOWLEDGE.

R. E. Parnelle ^{for W.P. Stewart}
Signature of owner or authorized representative

R. E. Parnelle, Jr., Manager, Environmental Operations
Typed name and title

March 4, 1977
Date

SOURCE: Ila Power
Niggins Peaking Unit P-3
 COUNTY: Pinellas

DATE: 7-3-75
 TYPE PERMIT: Operation

<u>ACTION</u>	<u>INITIAL WHEN COMPLETED</u>	<u>DATE</u>
Preliminary Review	<u>J.L.T.</u>	<u>7-9-75</u>
Assigned for Review to	<u>Dave Tomlin</u>	<u>10-28-75</u>
Review comments	<u>Dave Tomkins</u>	<u>10-29-75</u>
<p><i>refer to A052-2036 for details, same as unit P-4</i></p>		
Number Assigned	<u>ret.</u>	<u>10-29-75</u>
Permit issued & signed	_____	_____
Permit logged	_____	_____
Permit mailed	_____	_____
Data forms completed	_____	_____
Permit Denied	_____	_____

REVIEWED BY: _____ DATE: _____

IS INFORMATION CONFIDENTIAL? YES _____ NO _____

TYPE PERMIT ACTION

DESCRIPTION OF PRIMARY SOURCE

New Source (No related permits) _____	Boiler _____
Renewed or modified permit _____	Solid Waste (Incinerator) _____
Point source deleted _____	Other Combustion _____
Point source added _____	Process _____
New Source replacing old source _____	Product (Name) _____

BRIEF DESCRIPTION OF PROCESS

OPERATING TIME: _____ HR/Da _____ Da/Wk _____ Wk/Yr

STACK DATA

Height (FT) _____

Diam. (FT.) _____

Temp. (°F) _____

Flow Rate (CFM) _____

Plume Height (FT) _____

Common Stack (Explain) _____

OPERATING DATA

Process Rate _____ #/HR

Process Rate _____ TONS/Yr.

Max Design Rate _____ #/Hr.

Combustion (Units) Gal _____ TONS _____ FT³ _____

Rate _____ Unit/Hr _____ Unit/Yr

Heat Content _____ BTU/Gal.

Boiler Capacity _____ BTU/Hr.

Max Design Rate _____ Unit/Hr.

Fuel (Nmme) _____ %s _____ %A

COMMENTS:

CONTROL EQUIPMENT

<u>Pollutant</u>	<u>Control Method</u>	<u>% EFF.</u>
Particulates	_____	_____
SO ₂	_____	_____
NO _x	_____	_____
HC	_____	_____
CO	_____	_____
F ⁻	_____	_____
_____	_____	_____

<u>POLLUTANT</u>	<u>LB/HR.</u>	<u>EMISSION ESTIMATE</u>		<u>LB/10⁶ BTU</u>	<u>TEST DATA</u>
		<u>TONS/HR.</u>	<u>LB/TON (PROD.)</u>		
Particulates	_____	_____	_____	_____	_____
SO ₂	_____	_____	_____	_____	_____
NO _x	_____	_____	_____	_____	_____
HC	_____	_____	_____	_____	_____
CO	_____	_____	_____	_____	_____
F ⁻	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

BASIS FOR ESTIMATE:

- _____ Not applicable (if emissions are negligible)
- _____ Stack test results or emission measurements
- _____ Material balance of process using engineering knowledge
- _____ Emissions calculated using EPA emission factors
- _____ Guess
- _____ Emission factor difference from official EPA factor

<u>POLLUTANT</u>	<u>LBS/HR.</u>	<u>ALLOWABLE EMISSIONS</u>		<u>APPLICABLE REGULATIONS</u>
		<u>LBS/TON (PROD.)</u>	<u>LBS/10⁶ BTU</u>	
PARTICULATES	_____	_____	_____	_____
SO ₂	_____	_____	_____	_____
NO _x	_____	_____	_____	_____
HC	_____	_____	_____	_____
CO	_____	_____	_____	_____
F ⁻	_____	_____	_____	_____



JOSEPH W. LANDERS JR.

SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

AUGUST 12, 1975
FLORIDA POWER CORP.
PINELLAS CO. AP

R. E. Parnelle, Jr., Administrator
Environmental Operations
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

RE: Air Permit Applications
Higgins Peaking Units
P-1, P-2, P-3 & P-4

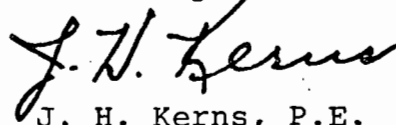
Dear Mr. Parnelle:

The above applications are being returned for inadequate information.

Please re-submit with proper visible emission test data and an average use factor for each unit regarding Jet A. fuel or natural gas. Also submit operation time data per pass 6 month experience.

Since the July 1, 1975 visible emission compliance date has passed and permit A052-2036 has expired, please respond within 20 days of the date of this letter.

Sincerely,



J. H. Kerns, P.E.

VISIBLE EMISSION FIELD REPORT
FLORIDA POWER CORPORATION
P.O. BOX 14042, ST. PETE., FLA. 33733

DATE 8-25-75
 TIME 10:06 AM

PERMIT NUMBER A052-2036
 SOURCE NAME HIGGINS P-3 COUNTY PINEHILLS
 SOURCE LOCATION OLDSMAR FL
 SOURCE DESCRIPTION (TYPE) PEAKING UNIT
 POINT OF OBSERVATION NORTH
 DISTANCE TO SOURCE 520 FEET

MIN	SECONDS				MIN	SECONDS			
	0	15	30	45		0	15	30	45
0	0		0		30				
1	0		0		31				
2	0		0		32				
3	0		0		33				
4	0		0		34				
5	0		0		35				
6	0		0		36				
7	0		0		37				
8	0		0		38				
9	0		0		39				
10	0		0		40				
11	0		0		41				
12	0		0		42				
13	0		0		43				
14	0		0		44				
15	0		0		45				
16	0		0		46				
17	0		0		47				
18	0		0		48				
19	0		0		49				
20	0		0		50				
21	0		0		51				
22	0		0		52				
23	0		0		53				
24	0		0		54				
25	0		0		55				
26	0		0		56				
27	0		0		57				
28	0		0		58				
29	0		0		59				

DIRECTION OF OBSERVER FROM SOURCE NORTH

DIRECTION OF WIND FROM SOURCE EAST

WIND VELOCITY 5-15 MPH

DIRECTION OF SUN FROM SOURCE EAST

CLOUD COVERAGE (IN %) 15%

NOTE:
 1. MINIMUM OF 25 READINGS MUST BE TAKEN.
 2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST .5% OPACITY.

SUM OF OPACITY READINGS 0

TOTAL NUMBER OF READINGS 60

OPACITY = $\frac{\text{SUM OF OPACITY READINGS}}{\text{TOTAL NUMBER OF READINGS}}$ = 0

OBSERVER Ronald R. Campbell

CERT. NO. _____

NOTES - UNIT ON GAS



Lawton Chiles
Governor

Florida Department of Environmental Protection

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT ISSUANCE

CERTIFIED MAIL

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

DER File No.: A052-216422
County: Pinellas

Enclosed is Amended Permit Number A053-216422 to operate Higgins Peaking Unit No. 3, 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.


Clerk

OCT 27 1993
Date

P 648 752 007



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

PS Form 3800, June 1990

	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date A053-216420, 421, OCT 27 1993 422, 423	

P 648 752 008



Certified Mail Receipt

No Insurance Coverage Provided
Do not use for International Mail
(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

PS Form 3800, June 1990

Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date OCT 27 1993 A052-216420, 421, 422, 423	



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: 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.: A052-216422
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

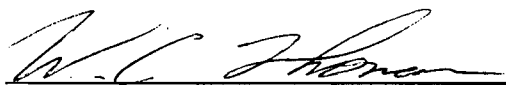
	<u>No. 2 Fuel Oil</u> <u>Pounds/10³ Gallons</u>	<u>Natural Gas</u> <u>Pounds/10⁶ ft³</u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

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.).

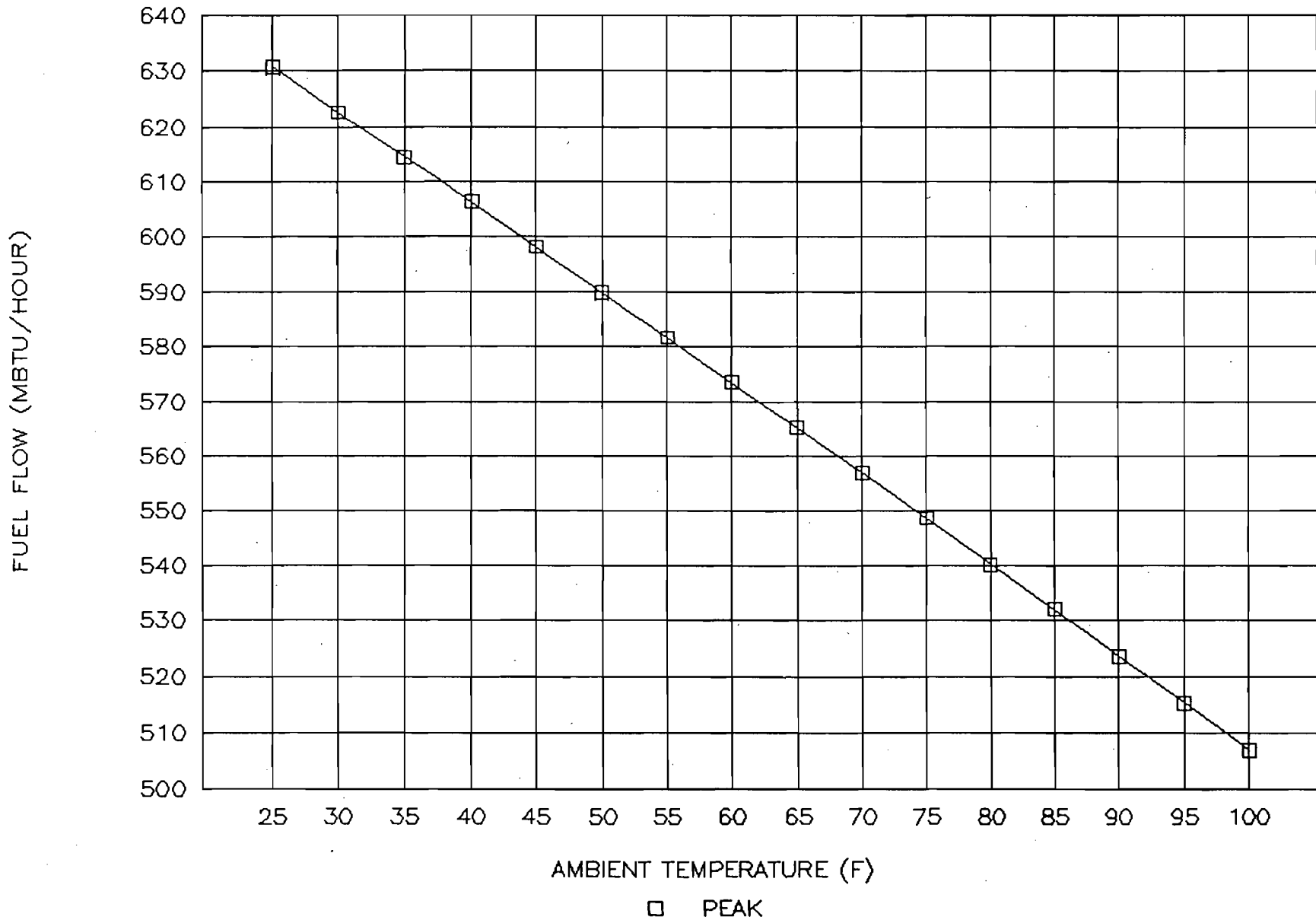
STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


For 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



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:

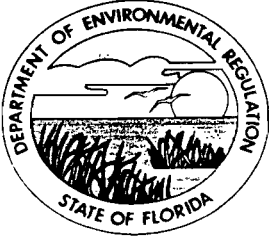
- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Compliance with New Source Performance Standards (NSPS)

"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.



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, Secretary

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

In the Matter of an Application
for Permit by:

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

DER File No.: A052-216422
County: Pinellas

Enclosed is Permit Number A052-216422 to operate Higgins Peaking Unit No. 3, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-2 & 17-4.

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

The Petition shall contain the following information;

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of the Department's action or proposed action;

(c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;

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

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

Page Two

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

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

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

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. 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, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This permit 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, Florida Administrative Code. 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 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.

P 079 942 811

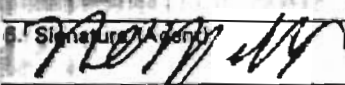
RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL
(See Reverse)

MR W J PARDUE
MANAGER ENV PROGRAMS
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	NOV 13 1992
A052 - 216420	
" " - 216421	
" " - 216422	
" " - 216423	

PS Form 3800, June 1985

SENDER: 1. Complete items 1 and/or 2 for additional services. 2. Complete items 3, and 4a & b. 3. Print your name and address on the reverse of this form so that we can return this card to you. 4. Attach this form to the front of the mailpiece, or on the back if space does not permit. 5. Write "Return Receipt Requested" on the mailpiece below the article number. 6. The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.		I also wish to receive the following services (for an extra fee): 1. <input type="checkbox"/> Addressee's Address 2. <input type="checkbox"/> Restricted Delivery Consult postmaster for fee.	
3. Article Addressed to: A052-216420, GR 421, 422 + 423		4a. Article Number P 079 942 811	
MR W J PARDUE MANAGER ENV PROGRAMS FLORIDA POWER CORP PO BOX 14042 ST PETERSBURG FL 33733		4b. Service Type <input type="checkbox"/> Registered <input type="checkbox"/> Insured <input checked="" type="checkbox"/> Certified <input type="checkbox"/> COD <input type="checkbox"/> Express Mail <input type="checkbox"/> Return Receipt for Merchandise	
5. Signature (Addressee) 		7. Date of Delivery NOV 16 1992	
6. Signature (Agency)		8. Addressee's Address (Only if requested and fee is paid)	
PS Form 3811, November 1990 *U.S. GPO: 1991-287-088		DOMESTIC RETURN RECEIPT	

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

Page Three

Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



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

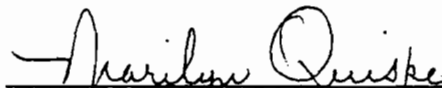
Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Agency Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed by certified mail before the close of business on NOV 13 1992 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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


Clerk

NOV 13 1992
Date

P 079 942 812

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED
NOT FOR INTERNATIONAL MAIL

(See Reverse)

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

PS Form 3800, June 1985

Postage	
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom Date and Address of Delivery	
TOTAL Postage and Fees	\$
Postmark or Date	NOV 13 1992
A052-216420 " " - 216421 " " - 216422 " " - 216423	

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt Fee will provide you the signature of the person delivered to and the date of delivery.

I also wish to receive following services (for a fee):

- 1. Addressee's Account
- 2. Restricted Delivery

Consult postmaster for fee

3. Article Addressed to: A052-216420, GR
421, 422 + 423

4a. Article Number
P 079 942 812

MR ALBERT W MORNEAULT
FLORIDA POWER CORP
3201 34TH ST SOUTH
ST PETERSBURG FL 33733

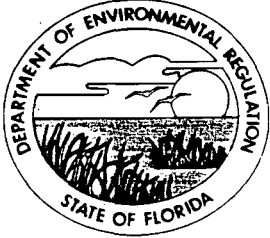
- 4b. Service Type
- Registered Insured
 - Certified COD
 - Express Mail Return Receipt Merchandise

7. Date of Delivery
NOV 16 1992

5. Signature (Addressee)

8. Addressee's Address (Only if return and fee is paid)

6. Signature (Sender)
Albert W Morneau



Florida Department of Environmental Regulation

Southwest District

3804 Coconut Palm

Tampa, Florida 33619

Lawton Chiles, Governor

813-744-6100

Carol M. Browner, 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 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 Peaking Unit No. 3. This unit is fired with natural gas or new No. 2 fuel oil. This is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 42.9 MW/hour with a maximum heat input rate of 631 MMBTU/hour. Maximum fuel usage rate is 0.63 MMCF/hour of natural gas or 107 BBL/hour of new No. 2 fuel oil.

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.: A052-216422
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 17-2.610(2)(a), F.A.C.).
3. Test Higgins Peaking Unit No. 3 for visible emissions* at intervals of 12 months from the date of January 7, 1992 if the unit operated more than 5 days (120 hours) on fuel oil the proceeding 12 months. Submit a copy of the test data to the Air Section of the Southwest District Office of the Department of Environmental Regulation and the Pinellas County Department of Environmental Management, Air Quality Division within 45 days of such testing. Testing shall be consistant with the requirement sof Rule 17-2.700, F.A.C.:
- * Visible emissions compliance tests must be conducted while the unit is being fired on new No. 2 fuel oil.
4. Compliance with the visible emissions limitation of Specific Condition No. 2 shall be determined using DER Method No. 9 contained in Rule 17-2.700, F.A.C. Pursuant to Rule 17-2.700(1)(d)1.b., F.A.C., the visible emissions compliance test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source sampling and reporting, shall be in accordance with the requirements of Rule 17-2.700, F.A.C.
5. Testing of emissions must be accomplished within 90-100% of the maximum permitted rate of 42.9 MW/hour. A compliance test submitted at operating rates less than 90% of the permitted rate will automatically constitute an amended permit at the lesser rate. Failure to submit the input rates and actual operating conditions may invalidate the test (Rule 17-4.070, 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 each compliance test is to begin (Rule 17-2.700(2)(a)9., F.A.C.).
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 Rate: 0.63 MMCF/hour of natural gas,
107 BBL/hour of new No. 2 fuel oil

PERMITTEE:
Florida Power Corporation

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

8. The new No. 2 fuel oil is to be monitored prior to delivery and a daily sample taken for a monthly composite sample. The fuel oil is to be analyzed for the following:

- a. BTU
- b. API Gravity
- c. Density
- d. Sulfur Content

This data is to be used to calculate the SO_2 emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

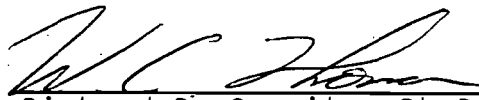
9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 403.080, F.S.:

- A. Annual amount of materials and/or fuels utilized.
- B. Annual emissions (note calculation basis).
- C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Section of the Southwest District Office of the Department and the Pinellas County Department of Environmental Management, Air Quality Division.

10. Two applications to renew this operating permit shall be submitted to the Air Section of the Southwest District of the Department of Environmental Regulation 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 operating permit (Rule 17-4.090, F.A.C.).

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; 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 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 Standards

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.



Florida Department of Environmental Regulation

Twin Towers Office Bldg • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

DER Form # _____
Com # _____
Effective Date _____
DER Application No. _____

A052-216422

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 3 Renewal of DER Permit No. A052-137557

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 3

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336.54 North 3098.25

Latitude: 28° 00' 08" N. Longitude: 82° 39' 49" W.

NEDS No: 0012 Point ID: 06

- 1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05. No Fee Required
2. Have there been any alterations to the plant since last permitted? [] Yes [x] No
3. Attach the last compliance test report required per permit conditions if not submitted previously. Compliance test performed on January 7, 1992
4. Have previous permit conditions been adhered to? [x] Yes [] No
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [] Yes [x] No
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [x] Yes [] No
7. Has the annual operating report for the last calendar year been submitted? [x] Yes [] No

B. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%Wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	107	107	631
Natural gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____

A052-216422

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

[Signature]
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
 W.J. Pardue, Manager - Environmental Programs
 P.O. Box 14042
 St. Petersburg, FL 33733
 City State Zip
 7-15-92 (813)866-4387
 Date Telephone No.

DER Form 17-1.202(4)
 Effective November 30, 1992

OFFICIAL NOTARY SEAL
 MARYJANE R BLAIN
 NOTARY PUBLIC STATE OF FLORIDA
 COMMISSION NO. CC184169
 MY COMMISSION EXP. JUNE 3, 1994

W. J. Pardue personally appeared me this 15th day of July, 1992
M. J. R. Blain

OPERATION PERMIT RENEWAL
Professional Engineer Certification

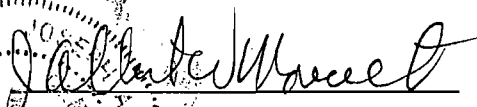
This certification must be attached to the renewal application(required by Rule 17-4.050(3), FAC) for:

Company Name: FLORIDA POWER CORPORATION
Source Name: HIGGINS PEAKING UNIT 3
Source Permit No.: AO 52-137557
Source ID: NEDS NO. 0012 POINT ID: 06
County: PINELLAS

PROFESSIONAL ENGINEER REGISTERED IN FLORIDA
(WHERE REQUIRED BY Chapter 471, F.S.)

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgement, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with applicable Statutes of the State of Florida.

Affix Seal

Signed 
Florida Registration No. 14054
Date: 1/17/92

Albert W. Morneault
Name

Florida Power Corporation
Company Name

3201 - 34th Street South
Street Address

St. Petersburg, FL 33733
City, State, and Zip Code

Telephone No. 813/866-5162

Taken From DER Form 17-1.202(1)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347

813-623-5561
Suncom—552-7612



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

NOTICE OF PERMIT

Mr. J.A. Hancock
Vice President, Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Hancock:

Re: Pinellas County - AP
Higgins Peaking Unit No. 3

Enclosed is Permit Number A052-137557 to operate a peaking unit (designated as Unit No. 3), issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee Florida 32301, within fourteen (14) days of receipt 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. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph 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, FAC. 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.

A052-137557

Mr. J.A. Hancock
St. Petersburg, FL 33733

Page Two

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32301; 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.

Sincerely,



James Wm. Estler
Air Permitting Engineer

JWE/dtw

Attachment: as stated

cc: PCDEM

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 10-13-87 to the listed persons.

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

Mavis J. Wright 10-13-87
Clerk Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-7347
813-623-5561
Suncorn—552-7612



BOB MARTINEZ
GOVERNOR
DALE TWACHTMANN
SECRETARY
DR. RICHARD D. GARRITY
DISTRICT MANAGER

PERMITTEE:

Mr. J.A. Hancock
Vice President
Fossil Operations
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

Permit No.: AO52-137557
County: Pinellas
Expiration Date: 9-16-92
Project: Higgins Peaking
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 Peaking Unit No. 3 using natural gas or #2 fuel oil. Peaking Unit #3 consists of two Pratt & Whitney jet engines. The unit is rated at 42.9 MW/hour with a maximum heat input of 631 MMBTU/hour. Maximum fuel usage is .63 MMCF/hour for natural gas and 107 BBL/hour for #2 fuel oil.

Location: Shore Drive, Oldsmar, Pinellas County, FL

UTM: 17-336.54E 3098.25N NEDS NO: 0012 Point ID: 06

Replaces Permit No.: AO52-58635

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate the enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
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 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute 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, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

6. The permittee shall at all times 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 maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of;

a. Having access to and copying any records that must be kept under the conditions of the permit:

b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and

c. Sampling or monitoring 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 notify and provide the department with the following information:

(a) a description of and cause of non-compliance; and

(b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

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 arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.

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 17-4.12 and 17-30.30, 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 is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

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 Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

14. (con't)

b. The permittee shall retain 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), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be 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 date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

SPECIFIC CONDITIONS:

1. Test the emissions for the following pollutant(s) within 30 days of start up and at intervals of 12 months from that date if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. Submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

- | | |
|------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity* | () Hydrocarbons |

*Visible emissions test must be conducted while unit is fired on #2 fuel oil

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

2. The visible emissions for this peaking unit shall not equal to or exceed 20% opacity as set forth in Subsection 17-2.610(2)(a), F.A.C..
3. Compliance with the emission limitations of Specific Conditions Nos. 1 and 2 shall be determined as follows:

<u>Pollutant</u>	<u>Test Method</u>
Visible Emissions:	DER Method 9

The test are contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C.. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A.

4. Testing of emissions must be conducted within $\pm 10\%$ of the permitted rate 42.9 MW/hour. A compliance test submitted at operating levels less than 90% of permitted capacities will automatically constitute an amended permit at the lesser rate until another test (showing compliance) at the permitted rate, as stated above, is submitted. Failure to submit the input rates or operation at conditions during testing which do not reflect actual operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].
5. Peaking Unit# 3 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 631 MMBTU/hour
2. Fuel Consumption: 107 BBL/hour of #2 fuel oil
0.63 MMCF/hour of natural gas
3. Stack Height: 53 feet
4. Peaker Make: Two Pratt & Witney jet engines

PERMITTEE:
Florida Power Corporation

Permit No.: AO52-137557
Project: Higgins Peaking
Unit No. 3

6. Fuel oil quality is to be monitored prior to delivery and a daily sample taken for a monthly composite analysis. Fuel oil is analyzed for the following:
- a. BTU
 - b. API Gravity
 - c. Density
 - d. Sulfur Content

This data is to be used to calculate the SO₂ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

7. The Pinellas County Department of Environmental Management shall be notified in writing 15 days prior to compliance testing.
8. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C..
- A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions (note calculation basis)
 - C. Any changes in the information contained in the permit application.

A copy of this report shall be submitted to the Air Sections of the Southwest District Office and Pinellas County Department of Environmental Management, Air Quality Division.

9. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit.

Issued this 12th day of October
1987

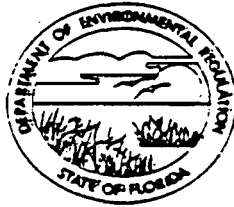
STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


Richard D. Garrity, Ph.D.
District Manager

A052-137557

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Higgins Peaking Unit 3 Renewal of DER Permit No. A052-58635

Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e., Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Gas Turbine Peaking Unit 3

Source Location: Street: Booth Road City: Oldsmar

UTM: East 17-336.5 North 3098.3

Latitude: 28° 0' 0.8"N. Longitude: 82° 39' 49"W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
See attached letter.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
See attached letter.

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Number 2 fuel oil	107	107	631
Natural gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) 8760; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

J.A. Hancock

Signature, Owner or Authorized Representative
 (Notarization is mandatory)

J.A. Hancock, Vice President, Fossil Operations
 Typed Name and Title

P.O. Box 14042 Address:

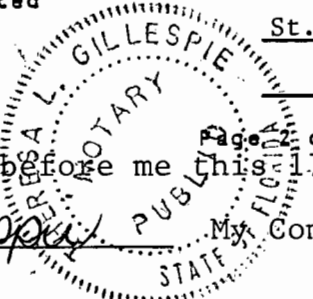
St. Petersburg FL 33733

State Zip

7/17/87 Date 813/866-4524 Telephone No.

Telephone No.

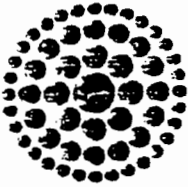
- *During actual time of operation.
- **Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.
- ***Attach letter of authorization if not previously submitted



ER Form 17-1.202(4)
 Effective November 30, 1982

Sworn to and subscribed before me this 17th day of July, 1987.

Theresa L. Gillespie My Commission Expires: October 21, 1990.



**Florida
Power**
CORPORATION

March 3, 1987

Dr. R. D. Garrity
Manager, Southwest District
Florida Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33637

Dear Dr. Garrity:

Subject: Florida Power Corporation
1986 Annual Operations Report

The 1986 Annual Operation Reports are enclosed for the following units:

Anclote Unit 1 (AO51-106660)	Crystal River Unit 1 (AO09-89919)
Anclote Unit 2 (AO51-94924)	Crystal River Unit 2 (AO09-115452)
Bartow Unit 1 (AO52-63210)	Crystal River Unit 4 (Site Certification)
Bartow Unit 2 (AO52-56650)	Crystal River Unit 5 (Site Certification)
Bartow Unit 3 (AO52-56651)	Crystal River Fly Ash System
Bartow Fly Ash System (AO52-71879)	Source No. 1 (AO09-117845)
Bartow Anclote Pipeline Heater (AO52-80149)	Source No. 2 (AO09-117846)
Bayboro P-1 (AO52-89916)	Source No. 3 (AO09-117847)
Bayboro P-2 (AO52-89915)	Source No. 4 (AO09-114093)
Bayboro P-3 (AO52-89914)	Source No. 5 (AO09-114094))
Bayboro P-4 (AO52-89911)	Higgins Unit 1 (AO52-56652)
	Higgins Unit 2 (AO52-56653)
	Higgins Unit 3 (AO52-56654)

The 1987 Annual Operations Reports are not being submitted for those combustion turbines which have been in extended cold shutdown and did not

operate during 1986. The following units did not operate in 1986:

Bartow P-1 (AO52-89907)
Bartow P-2 (AO52-89904)
Bartow P-3 (AO52-89903)
Bartow P-4 (AO52-89902)
Higgins P-1 (AO52-58633)
Higgins P-2 (AO52-58634)
Higgins P-3 (AO52-58635)
Higgins P-4 (AO52-58636)

Should you have any questions concerning this information, please call me at (813) 866-4481.

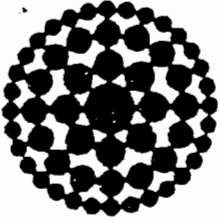
Sincerely,



Elaine R. Macinski
Environmental & Licensing Affairs

ERM:dr

cc: Mr. Peter Hessling
Pinellas County Department of Environmental Management
Division of Air Quality
w/attachments, Bartow, Bayboro and Higgins)



**Florida
Power**
CORPORATION

April 4, 1985

Dr. R. D. Garrity
District Manager
Department of Environmental Regulation
7601 Highway 301 North
Tampa, FL 33610

Subject: Higgins Peaker #1 A052-58633
Higgins Peaker #2 A052-58634
Higgins Peaker #3 A052-58635
Higgins Peaker #4 A052-58636

Dear Dr. Garrity:

Please be advised that the subject units have been placed in long term standby and are not scheduled to operate in the foreseeable future. When these units are placed back into operation, your office will be notified and the units tested within 30 days of startup.

Should you have any questions, please advise.

M J Hancock / JAH

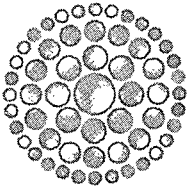
J. A. Hancock
Vice President, Fossil Operations

Hancock(M02)C3-1

JAH:ey

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

FACILITY Florida Power Corp. Higgins Plant.		DISTRICT Southwest	COUNTY Pinellas
ADDRESS Shore Drive, Oldsmar, Fl.		CONTACT Mr. Stephen Stanbrough	
APIS # 407PA52001206	PERMIT # A052-58635	EXPIRATION DATE 10/12/87	
SOURCE DESCRIPTION Gas Turbine Peaking Unit No.3			
INSPECTION DATE 7/21/86	AUDIT TYPE 3 Major	COMPLIANCE STATUS In compliance for extended cold shutdown	
INSPECTION COMMENTS/RECOMMENDATIONS A052-58635 - Peaking unit gas turbine No.3 out of service at time of inspection. Turbines were in cold storage in sealed crates. To be brought on-line at an undetermined date in the future.			
INSPECTOR(S) NAME(S) E. Fehrmann			
SIGNATURE(S) E. Fehrmann		DATE 7/21/86	



**Florida
Power**
CORPORATION

July 30, 1987

D. E. R.

JUL 31 1987

SOUTH WEST DISTRICT
TAMPA

Dr. R.D. Garrity
Manager, Southwest District
Florida Department of Environmental Regulations
4520 Oak Fair Boulevard
Tampa, Florida 33610

**RE: Renewal of Air Operating Permits
Higgins Peakings Units 1 - 4: A052-58633, A052-58634,
A052-58635, A052-58636**

Dear Mr. Garrity:

Enclosed are four copies of the application for renewal for the above cited units. Also enclosed are four checks, for \$100.00 each, for the filing fees as set forth in FAC 17-4.05.

If you have any questions, feel free to contact me at 813/866-5162.

Sincerely,

Albert W. Morneault
Environmental Operations

AWM:mn

Attachments (20)

cc: R.E. Parnelle

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 63822

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Power Corp. Date July 29, 1982

Address P.O. Box 14042 Dollars \$ 100.00

Applicant Name & Address same as above

Source of Revenue same as above

Revenue Code 0101 Application Number A052-58635

532467

By Maureen Pelham

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

October 22, 1982

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Dear Mr. Moore:

Re: Pinellas County - AP
Higgins Peaking Unit #3

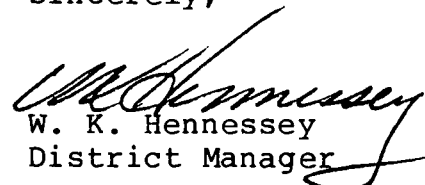
Enclosed is Permit Number A052-58635 dated 10/22/82, to operate the subject pollution source, issued pursuant to Section 403.061(14), Florida Statutes.

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.201, Florida Administrative Code, (copy enclosed). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

If no petition is filed within the prescribed time, you will be deemed to have accepted this permit and waived your right to request an administrative hearing on this matter.

Acceptance of the permit constitutes notice and agreement that the department may periodically review this permit for compliance, including site inspections where applicable, and may initiate enforcement action for violation of the conditions and requirements thereof.

Sincerely,


W. K. Hennessey
District Manager

WKH/scm

Enclosures
cc: PCDEM

RULES OF THE ADMINISTRATION COMMISSION
MODEL RULES OF PROCEDURE
CHAPTER 28-5
DECISIONS DETERMINING SUBSTANTIAL INTERESTS

PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

- (1) Initiation of formal proceedings shall be made by petition to the agency responsible for rendering final agency action. The term petition as used herein includes any application or other document which expresses a request for formal proceedings. Each petition should be printed, typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double-spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners, and an explanation of how his/her substantial interests will be affected by the agency determination;
 - (c) A statement of when and how petitioner received notice of the agency decision or intent to render a decision;
 - (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
 - (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;
 - (f) A demand for relief to which the petitioner deems himself entitled; and
 - (g) Other information which the petitioner contends is material.

A petition may be denied if the petitioner does not state adequately a material factual allegation, such as a substantial interest in the agency determination, or if the petition is untimely. (Section 28-5.201 (3) (a), FAC)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

APPLICANT:

Mr. G. C. Moore
Vice President-Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

No.: A052-58635
County: Pinellas
Project: Higgins Peaking Unit #3

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

For the operation of the Higgins Peaking Unit #3 using No. 2 fuel oil or natural gas. Maximum heat input is 631 MMBTU/hr.

Located at Booth Road, Oldsmar, Pinellas County

UTM: 17-336.5 E 3098.3 N

Replaces Permit No.: A052-5704 NEDS No.: 0012 Point ID: 06

Expiration Date: October 12, 1987

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth herein are "Permit Conditions", and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #3
Page 2 of 4 of Permit No.: A052-58635

3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated 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 revocation of this permit.
4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations.
5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
7. In case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalties, therefore, caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where granting a variance or exception from department rules or state statutes.
9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #3
Page 3 of 4 of Permit No. A052-58635

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

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

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

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)

SPECIFIC CONDITIONS

1. Test the emissions for the following pollutant(s) at intervals of 12 months from the date September 29, 1982 and submit a copy of test data to the Air Section of the Southwest District Office within forty five days of such testing (Section 17-2.700 (2), Florida Administrative Code (F.A.C.)).

- | | |
|------------------|--------------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Opacity | () Hydrocarbons |
| | () Total Reduced Sulfur |

*Fuel analysis may be submitted for required sulfur dioxide emission test.

2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).

Appl. Name: Florida Power Corporation
Project: Higgins Peaking Unit #3
Page 4 of 4 of Permit No.: A052-58635

3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.

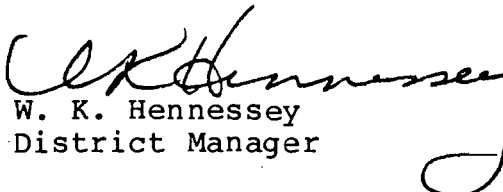
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- (C) Any changes in the information contained in the permit application.

4. Visible emissions from this source shall not equal or exceed 20% opacity. The test shall be conducted using DER Method #9.

5. Visible emission test shall be conducted when unit is being fired with No. 2 fuel oil.

Issued this 22ND day of October,
1982

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION


W. K. Hennessey
District Manager

EXPIRATION DATE

October 12, 1987

A052-58635
PAID 1111-2-9-1982



D.E.R.

JUL 29 1982

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Peaking Unit Renewal of DER Permit No.: A052-5704
Company Name: Florida Power Corporation County: Pinellas

Identify the specific emission point source(s) addressed in this application (i.e.; Lime Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2. Gas Fired):

Higgins #3 Peaking Unit

Source Location: Street: Booth Road City: Oldsmar

UTM: East 336540 North 3098250

Latitude: 2 8° 0 0' 0 8"N. Longitude: 8 2° 3 9' 4 9"

1. Attach herewith a twenty dollar (\$20) check made payable to the "Department of Environmental Regulation."
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No
If yes, and not previously reported, give brief details and what action was taken on separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department?
 Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.
8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Rate	Utilization
	Type	% Wt		

B. Product Weight (lbs/hr): _____

C. Fuels

BEST AVAILABLE COPY

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
No. 2 Fuel Oil	107	107	631
Natural Gas	0.63	0.63	631

D. Normal Equipment Operating Time: hrs/day _____ ; days/wk _____ ; wks/yr _____ ; hrs/yr (power plants only)
8760 ; if seasonal, describe _____

The undersigned owner or authorized representative*** of Florida Power Corporation
 is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct
 and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source
 and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules
 and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he
 will promptly notify the Department upon sale or legal transfer of the permitted facility.

G. C. Moore
 Signature, Owner or Authorized Representative
 (Notarization is mandatory)

for G. C. Moore, Vice President, Power Production
 Typed Name and Title

Florida Power Corporation, PO Box 14042
 Address

St. Petersburg FL 33733
 City State Zip

7/26/83 (813) 866-4140
 Date Telephone No.

Sarah J. Crockett

Notary Public, State of Florida at Large
 My Commission Expires Aug. 24, 1983
 Bonded By American Fire & Casualty Company



*During actual time of operation.
 **Limits: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coal-lbs/hr.
 ***Attach a letter of authorization if not previously submitted.



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT
7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610

October 10, 1977
Pinellas County - AP
Florida Power Corporation

REUBIN O'D. ASKEW
GOVERNOR

JOSEPH W. LANDERS, JR.
SECRETARY

Mr. W.P. Stewart
Director Power Production
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

RE: A052-5704

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-5704) dated October 10, 1977 to operate the subject pollution source.

This permit will expire on Sept. 21, 1982 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "Operation Permit Conditions".

This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

A handwritten signature in dark ink, appearing to read "P. David Puchaty", is written over a large, stylized flourish.

P. David Puchaty
District Manager
Southwest District

cc: Central Files

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

PINELLAS COUNTY

OPERATION PERMIT

FOR Florida Power Corporation

Post Office Box 14042

Sb. Petersburg, FL 33733

PERMIT NO. A952-5704 DATE OF ISSUE October 10, 1977

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061 (16) AND 403.707 OF CHAPTER 403, FLORIDA STATUTES AND CHAPTERS 17-4 AND 17-7, FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO Mr. W. P. Stewart, Director Power Production

FOR THE OPERATION OF THE FOLLOWING:

The No. 13 Higgins Peaking Unit fired by natural gas and #2 oil. Subject to provisos 1, 2, 3, 5, 6, & 9.

LOCATED AT Oldsmar, Pinellas County

UTM 17-336540 E 3098250 N

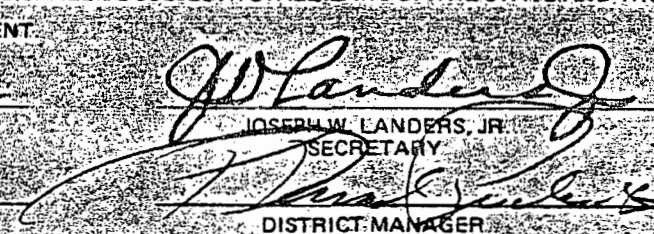

IN ACCORDANCE WITH THE APPLICATION DATED September 9, 1977

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL September 21, 1982

OR UNLESS REVOKED OR SURRENDERED, AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT.


DISTRICT ENGINEER


JOSEPH W. LANDERS, JR.
SECRETARY

DISTRICT MANAGER

GWR

State of Florida
Department of Environmental Regulation

OPERATION PERMIT CONDITIONS
FOR AIR POLLUTION SOURCES

Permit No.: A052-5704

Date: October 10, 1977

An (X) indicates applicable conditions

- (X) 1. The permit holder must comply with Florida Statute, Chapter 403 and the applicable Chapters of the Department of Environmental Regulation in addition to the conditions of this permit (Chapter 403.161(1)(b), Florida Statutes).
- (X) 2. Test the emissions for the following pollutant(s) at intervals of twelve months from the date 9-23-77 and submit a copy of test data to the District Engineer of this agency within fifteen days of such testing (Chapter 17-2.07(1), Florida Administrative Code (F.A.C.)).
- | | |
|-------------------|--------------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Plume Density | () Hydrocarbons |
| | () Total Reduced Sulfur |
- (X) 3. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
- () 4. Submit for this source quarterly reports showing the type and monthly quantities of fuels used in the operation of this source. Also state the sulfur content of each fuel (Chapter 17-4.14, F.A.C.).
- (X) 5. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
- (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.

- (X) 6. In the event the permittee is temporarily unable to comply with any of the conditions of the permit, the permittee shall immediately notify the District Office of the D.E.R. as per Chapter 17-4.13, F.A.C. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement actions by the Department.
- () 7. According to the Process Weight Table within Chapter 17-2.04(2), F.A.C., the maximum allowable emission rate of particulate matter for a process rate of _____ tons/hour is _____ pound/hour. At lesser process rates, the allowable emission rates can be determined from the graph.
- () 8. This permit is associated with a Development of Regional Impact (D.R.I.). It does not waive any other permits that may be required from this or any other state, federal, or local agency.
- (X) 9. Issuance of this permit does not indicate an endorsement or approval of any other required permits by this Department.
- () 10. Incinerators shall comply with the provision of Chapter 17-2.04(6) (a), Florida Administrative Code, and Chapter 1-3.03 VI, A of the Hillsborough County Environmental Protection Commission Rules and Regulations.
- () 11. Incinerators shall not incinerate radioactive materials.

D.E.R.

SEP 12 1977

SOUTHWEST DISTRICT
TAMPA

9-12-77 LM
A052-5702

Department of Environmental Regulation

Application for Operation

Permit Renewal

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation

Mailing Address P.O. Box 14042

St. Petersburg, FL 33733

Current Permit Number A0 52-3120 P-1

B. Raw Material Usage

Type	Amount Consumed

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
Natural Gas	73743 MCF	---
#2 Fuel Oil	4714 bbl	0.07

5204

D. Production Rates

Type	Amount Produced
Electricity	6450 MWH

*January thru July, 1977

E. Normal Operating Time

- 1. Hours per ~~day~~ Month 34
- 2. Days per week _____
- 3. Weeks per year _____

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates _____
- 2. SO₂ _____
- 3. NO₂ _____
- 4. CO _____
- 5. Hydrocarbons _____

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159

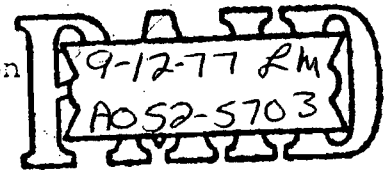
Attach a letter of authorization



Department of Environmental Regulation

Application for Operation

Permit Renewal



(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation
Mailing Address P.O. Box 14042
St. Petersburg, FL 33733
Current Permit Number A052-3118 P-2

B. Raw Material Usage

Type	Amount Consumed
_____	_____
_____	_____
_____	_____
_____	_____

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural Gas</u>	<u>24139 MCF</u>	<u>--</u>
<u>#2 Fuel Oil</u>	<u>14789 bbl</u>	<u>0.07</u>
_____	_____	_____

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>6862 MWH</u>
_____	_____
_____	_____

*January thru July, 1977

E. Normal Operating Time

1. Hours per ~~day~~ month

35

2. Days per week

3. Weeks per year

F. Emission Quantities (pounds/hour) N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart

Signature of the Owner or Authorized Representative

W. P. Stewart Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159

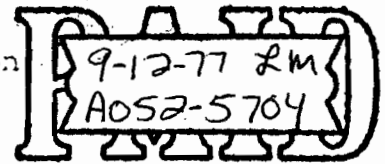


*Attach a letter of authorization

Department of Environmental Regulation

Application for Operation

Permit Renewal



(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation
 Mailing Address P.O. Box 14042
St. Petersburg, FL 33733
 Current Permit Number A052-3119 P-3

B. Raw Material Usage

Type	Amount Consumed
_____	_____
_____	_____
_____	_____

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural gas</u>	<u>121099 MCF</u>	<u>---</u>
<u>#2 Fuel Oil</u>	<u>2637 bbl</u>	<u>0.07</u>
_____	_____	_____

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>9153 MWH</u>
_____	_____
_____	_____

*January thru July, 1977

E. Normal Operating Time

BEST AVAILABLE COPY

- 1. Hours per ~~xxx~~ month
- 2. Days per week
- 3. Weeks per year

42

F. Emission Quantities (pounds/hour) N/A for gas turbine

- 1. Particulates
- 2. SO₂
- 3. NO₂
- 4. CO
- 5. Hydrocarbons

G. Any changes in control equipment

N/A

The undersigned owner or authorized representative of *Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.



W.P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

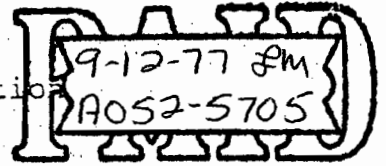
Name and Title (Please Type)

Date: 9/8/77

Telephone No: (813) 866-4159

*Attach a letter of authorization

Department of Environmental Regulation



Application for Operation

Permit Renewal

(Information contained in this application should reflect the most current data available.)

A. Business Name Florida Power Corporation
 Mailing Address P.O. Box 14042
St. Petersburg, FL 33733
 Current Permit Number A052-2036 P-4

B. Raw Material Usage

Type	Amount Consumed
_____	_____
_____	_____
_____	_____
_____	_____

C. Fuel Usage *

Type	Amount Consumed	% Sulfur
<u>Natural Gas</u>	<u>66888 MCF</u>	<u>--</u>
<u>#2 Fuel Oil</u>	<u>12411 bbl</u>	<u>0.07</u>
_____	_____	_____

D. Production Rates

Type	Amount Produced
<u>Electricity</u>	<u>9080 MWH</u>
_____	_____
_____	_____

*January thru July, 1977

E. Normal Operating Time

BEST AVAILABLE COPY

1. Hours per ~~day~~ month

39

2. Days per week

3. Weeks per year

F. Emission Quantities

(pounds/hour)

N/A for gas turbine

1. Particulates

2. SO₂

3. NO₂

4. CO

5. Hydrocarbons

G. Any changes in control equipment

N/A

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for an operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart

Signature of the Owner or Authorized Representative

W.P. Stewart, Director, Power Production

Name and Title (Please Type)

Date: 9/8/77

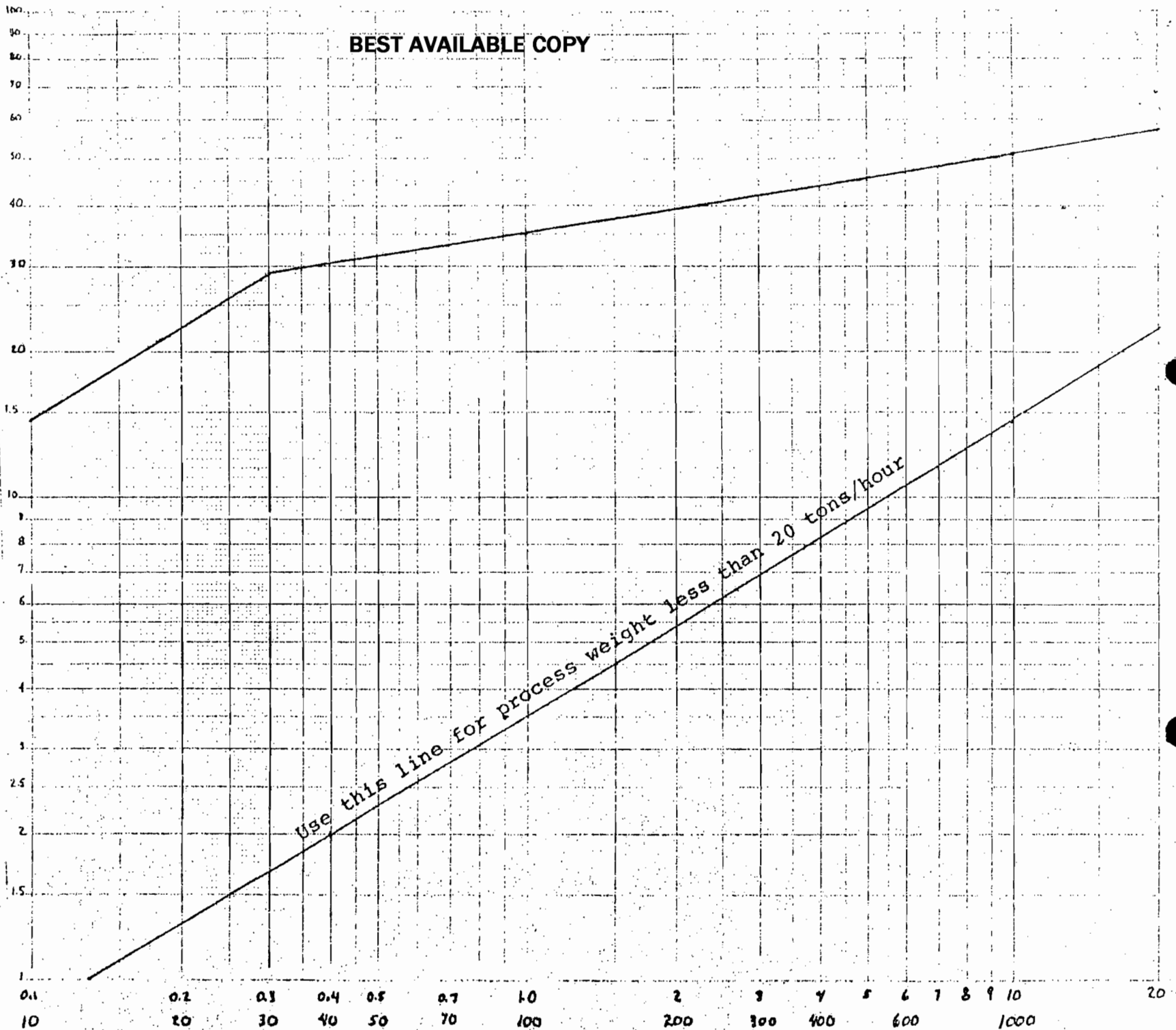
Telephone No: (813) 866-4159

Attach a letter of authorization



BEST AVAILABLE COPY

POUNDS OF PARTICULATES



Use this line for process weight less than 20 tons/hour

PROCESS WEIGHT TABLE

PROCESS WEIGHT TONS/HOUR

INTEROFFICE MEMORANDUM

For Routing To District Offices
And/Or To Other Than The Addressee

To: _____	Locn.: _____
To: _____	Locn.: _____
To: _____	Locn.: _____
From: _____	Date: _____

TO: P. David Puchaty

THRU: Dan Williams *DW*

FROM: George Richardson *GR*

SUBJECT: Florida Power Corporation
Higgins Peaking Units #1,2,3,4

DATE: October 3, 1977

Florida Power Corporation has applied for a renewal of permit to operate their peaking units #1,2,3,4 located at their Higgins Plant in Oldsmar.

This source is used during peak periods when more electricity is needed, these units have no control equipment, they are fired with either natural gas or #2 fuel oil.

This source has passed the test requirement of 20% opacity. I, therefore, recommend a permit to operate be issued for a period of five years, with testing done annually.



JOSEPH W. LANDERS JR.

SECRETARY

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

POST OFFICE BOX 9205
500 EAST CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

OCTOBER 30, 1975
FLORIDA POWER CORPORATION
PINELLAS CO. AP

W. P. Stewart, Director
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-3119) dated 10/29/75 to ~~construct~~/ operate the subject pollution source.

This permit will expire on 10/29/77 , and will be subject to the conditions, requirements, and restrictions checked or indicated otherwise in the attached sheet "~~Construction~~/Operation Permit Conditions."

This permit is issued under the authority of Florida Statute 403.061(16). The time limits imposed herein are a condition to this permit and are enforceable under Florida Statute 403.161. You are hereby placed on Notice that the Department will review this permit before the scheduled date of expiry and will seek court action for violation of the conditions and requirements of this permit.

You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

Your continued cooperation in this matter is appreciated and in future communication please refer to your permit number.

Yours very truly,

J. H. Kerns, P.E.
Chief of Permitting

JHK/JLT/pm

cc: Central Files
File
Engineer

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

OPERATION PERMIT

FOR FLORIDA POWER CORPORATION
P.O. BOX 14042
ST. PETERSBURG, FLORIDA 33733

PERMIT NO. A052-3119 DATE OF ISSUE 10/29/75

PURSUANT TO THE PROVISIONS OF SECTIONS 403.061(16) AND 403.707 OF CHAPTER 403 FLORIDA STATUTES AND CHAPTERS 17-4 AND 17-7 FLORIDA ADMINISTRATIVE CODE THIS PERMIT IS ISSUED TO:
W. P. Stewart, Director Power Production

FOR THE OPERATION OF THE FOLLOWING:
Higgins Peaking Unit P-3, Operating on Natural Gas, subject to attached conditions of approval; numbers 1, 2, 3, 4, 5, 6, and 9.

LOCATED AT Oldsmar, Florida
UTM: 17-336.5 East 3098-2 North

IN ACCORDANCE WITH THE APPLICATION DATED 9/9/75

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A PART OF THIS PERMIT AS THOUGH FULLY SET FORTH HEREIN. FAILURE TO COMPLY WITH SAID CONDITIONS OR PROVISOS SHALL CONSTITUTE A VIOLATION OF THIS PERMIT AND SHALL SUBJECT THE APPLICANT TO SUCH CIVIL AND CRIMINAL PENALTIES AS PROVIDED BY LAW.

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISSUE UNTIL 10/29/77

OR UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE RULES AND REGULATIONS OF THE DEPARTMENT.

J. H. Kerns
DISTRICT ENGINEER

Joseph W. Landers, Jr.
JOSEPH W. LANDERS, JR.
SECRETARY
DISTRICT MANAGER

001206

OPERATION PERMIT CONDITIONS

FOR AIR POLLUTION SOURCES

Permit No.: A052-3119

Date: 10/29/75

- (X) 1. Fugitive dusts, odors and other pollutants from all sources shall be effectively controlled or eliminated by suitable means. (Chapter 17-2.04 (3)(4)(5))
- (X) 2. The pollution control equipment shall be maintained and operated in such a manner that all emissions will be in compliance with applicable rules and regulations of the DER. A log of maintenance activities shall be kept and available for DER review. (Chapter 17-2.03 (7))
- (X) 3. Report any problems encountered in the operation of the source that may result in discharge of pollutants in amounts higher than permitted herein. Cease operation forthwith unless permission has been obtained from the regional office of the DER to operate the source for an interim period. (Chapter 17-4.13)
- (X) 4. This permit is issued on the basis of the data submitted in the application and the existing requirements of this agency as set forth in Chapter 17-2 (revised January 18, 1972) Florida Administrative Code. The owner shall obtain written permission from the DER before making changes in the operation of the source (i.e. higher production rate, different raw materials and fuels, etc.) that may increase the quantity of pollutants or change their composition. (Chapter 17-2.01)
- (X) 5. This permit is not transferable. Upon the sale or legal transfer of the source covered by this permit, the new owner must apply by letter for a transfer of this permit within thirty days. (Chapter 17-4.12)
- (X) 6. Test the emissions for the following pollutant(s) at intervals of 6 months from the date of this permit and submit two copies of test results to the District engineer of this agency within fifteen days of such testing. (Chapter 17-2.07 (1))
- | | |
|-------------------|---------------------|
| () Particulates | () Sulfur Oxides |
| () Fluorides | () Nitrogen Oxides |
| (X) Plume Density | () Hydrocarbons |
- () 7. Provide such sampling and testing facilities as may be necessary for the proper determination of the nature and quantity of air pollutants emitted from this source. (Chapter 17-2.07)
- () 8. Identify the pollution source and/or control equipment by its manufacturer, model number, serial number, capacity, and any other pertinent information. Submit this information on or before
- (X) 9. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information:
- Annual amount of materials and/or fuel utilized.
 - Annual emissions.
 - Any changes in the information contained in the permit application.



D.P.C.

STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

APPLICATION TO OPERATE/CONSTRUCT POLLUTION SOURCES WEST CENTRAL REGION

JUN 30 1975 WINTER 1975

SECTION I - GENERAL INFORMATION FOR ALL POLLUTION SOURCES

I TO BE FILLED IN BY APPLICANT

Source Type: Air Pollution
Type application: [X] Operation [] Temporary Operation [] Construction
Status Source: [] New [X] Existing [] Modification

Source Name: Higgins Peaking Unit P-3 County: Pinellas

Source Location: Street: P. O. Box J City: Oldsmar, FL 33557
(Water Source Only) Lat: Long:
(Air Source Only) UTM: East 336540 North 3098250

Appl. Name and Title: W. P. Stewart, Director, Power Production
Appl. Address: P. O. Box 14042 C-4, St. Petersburg, FL 33733

II TO BE FILLED IN BY REGION (*BY BUREAU OF PERMITTING)

Control No: Region County Type *Project

Table with 6 columns: Type Permit, Date Rec'd, *Permit No., *Issue Date, *Compl. Date, *Exp. Date

Source Description:
Control Equipment:

Water Permits

Receiving Body Code: Surface Water Code:
Station No.: Influent: Effluent:

Table with 4 columns: Effluent, Average, Design, % Reduction. Rows include Flow rate, MGD, BOD, lbs/day, Susp. Sol., lbs/day, Other.

Air Permits

Operating Time: [] Continuous [] Intermittent
Fuel: Type M-BTU/hr. In Put
Incinerator: Capacity, tons/day Type Waste
Mfg. & Model

Table with 4 columns: Pollutant Emissions, lbs/day, Actual, Design, Allowable. Rows include Particulate, Sulfur Oxides, Other.

Implementation: Estimated Appl. Filing Date
Estimated Start of Const. Estimated Compliance Date

AIR POLLUTION SOURCES & CONTROL DEVICES

A. Identification of Air Contaminants

- 1) Particulates
 a) Dust b) Fly Ash c) Smoke d) Other (Identify)
- 2) Sulfur Compounds
 a) SO_x as SO₂ b) Reduced Sulfur as H₂S c) Other (Identify)
- 3) Nitrogen Compounds
 a) NO_x as NO₂ b) NH₃ c) Other (Identify)
- 4) Fluorides 5) Acid Mist 6) Odor
- 7) Hydrocarbons 8) Volatile Organic Compounds
- 9) Other (Specify): _____

B. Raw Materials and Chemicals Used (Be Specific) N/A

Description	Utilization Tons/day, lbs./day, etc.	Approximate Contaminant Content		Relate to Flow Diagram
		Type	% Wt.	

C. Process Weight: N/A

- 1) Total Process Weight Rate _____ lbs./hr. [See Sec. 17-2.04(2)]
- 2) Product Weight _____ lb./hr. expressed as _____
- 3) Normal Operating Time _____, if seasonal describe: This unit will
operate during peak periods of system demand.

D. Airborne Contaminants Discharged:

Name of Contaminant	Actual Discharge Calc.	Discharge Criteria*	Allowable Discharge*	Relate Location to Flow Diagram
Particulate	16 lb/day			
SO ₂	46 lb/day			

* Refer to Chapter 17-2 Florida Administrative Code
 (Discharge Criteria: Process Weight Rate, #/tonP₂O₅, #/M BTU/hr etc.)

E. Control Devices: N/A

Name	Eff.	Conditions of Operation, Particle Size Range, etc.	Relate to Flow Diagram

F. Fuels:

Type (Be specific)	Daily Consumption	Heat Input BTU/hr.	Relate to Flow Diagram
Jet A, or	2539 Gal.	14×10^6	
Gas	1817 mcf.	77×10^6	

G. Describe briefly, without revealing trade secrets, the unit processes/operations generating the airborne emissions identified in this application: Fuel is burned in the combustion section to produce hot gases. These gases are used to drive the turbine which drives the generator.

H. Indicate liquid or solid wastes generated and method of disposal. N/A

STATEMENTS BY APPLICANT AND ENGINEER

A. Applicant

The undersigned owner or authorized representative of * Florida Power Corporation is fully aware that the statements made in this application for a renewal Operation permit are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted establishment.

W. P. Stewart
Signature of the Owner or Authorized Representative
W. P. Stewart, Director, Power Production
Name and Title (Please Type)

Date: June 27, 1975 Telephone No.: (813) 866-4159

* Attach a letter of authorization

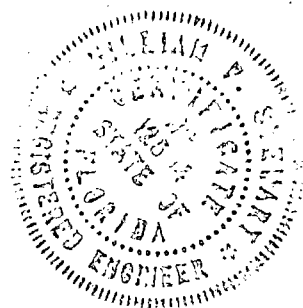
B. Professional Engineer Registered in Florida:

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the control and discharge of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution source(s) with appropriate control facilities, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the installation covered in this application.

Signature W. P. Stewart Mailing Address: Florida Power Corporation
P. O. Box 14042 C-4
St. Petersburg, FL 33733
Name: W. P. Stewart Telephone No.: (813) 866-4159
(please type)

Florida Registration Number 12594
(Please affix seal)

Date: June 27, 1975



If applicant is a corporation, a Certificate of Good Standing must be submitted with application.

This may be obtained, for a \$5.00 charge, from the Secretary of State, Bureau of Corporate Records, Tallahassee, Florida 32304.

75TH
YEAR

**Florida
Power**
CORPORATION

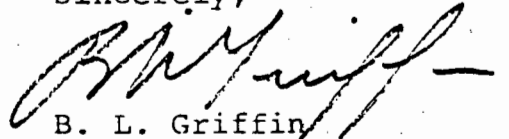
Florida Department of Pollution Control
2562 Executive Center Circle East
Montgomery Building
Tallahassee, Florida 32301

Gentlemen:

Subject: Letter of Authorization

Please be advised that Mr. W. P. Stewart, Director, Power Production, is properly authorized to be the representative in matters relating to Applications for Permits to Operate Existing Air and Water Pollution Sources of Florida Power Corporation, as required by the Florida Department of Pollution Control.

Sincerely,



B. L. Griffin
Vice President

BLG:cb

STATE OF FLORIDA

OFFICE OF SECRETARY OF STATE

I, Bruce A. Smathers, Secretary of State of the State of Florida, do hereby certify that the records of this office indicate that FLORIDA POWER CORPORATION (the "Company"), a corporation organized under the Laws of the State of Florida on July 18, 1899, has filed instruments in this office affecting its Charter as follows:

- (a) A Composite Certificate of Reincorporation, as amended through June 16, 1966 (with Appendix consisting of Items A, B and C), containing only such provisions as were in effect as of such date;
- (b) On March 31, 1970, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (c) On November 12, 1970, certified copy of a Resolution duly adopted by its Board of Directors on November 5, 1970, creating and establishing an 8.80% Series of Cumulative Preferred Stock;
- (d) On April 2, 1971, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (e) On April 4, 1972, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (f) On June 8, 1972, a certified copy of a Resolution duly adopted by its Board of Directors on June 1, 1972, creating and establishing a 7.40% Series of Cumulative Preferred Stock;
- (g) On December 11, 1973, a certified copy of a Resolution duly adopted by its Board of Directors on December 4, 1973, creating and establishing a 7.76% Series of Cumulative Preferred Stock;
- (h) On April 1, 1974, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company; and
- (i) On June 18, 1974, a certified copy of a Resolution duly adopted by its Board of Directors on June 10, 1974, creating and establishing a 10% Series of Cumulative Preferred Stock.

I do hereby further certify that (i) no Amendments to the Composite Certificate of Reincorporation (other than as mentioned above) have been filed by the Company; (ii) the Company has complied with the requirements of Chapter 28170, Laws of Florida, Acts of 1953, as amended, and has paid in full its corporation capital stock taxes thereunder; and (iii) the Charter of the Company remains in full force and effect.

GIVEN under my hand and the Great Seal of
the State of Florida, at Tallahassee,
the Capital, this the 12th day of March,
A.D., 1975.



Bruce A. Smathers
SECRETARY OF STATE



RECEIVED

MAR 1 1971

DEPT. OF A.W.P.C.
WEST CENTRAL REGION
WINTER HAVEN

State of Florida
Department of Air and Water Pollution Control

Application for Permit to Operate Air Pollution Sources

Applicant (Owner or authorized agent) G. W. Marshall, Production Superintendent
(Name and Title)

Name of Establishment Florida Power Corporation (Higgins #3)
(Corporation, Company, Political SD, Firm, etc.)

Mailing Address P. O. Box J, Oldsmar, Fla. 33557

Location of Pollution Source Shore Drive, Oldsmar, Fla.
(Number and Street) (City)


3098250 m N
336540 m E

Pinellas
(County)

Nature of Industrial Operation Electric Utility

Permit Applied For Operating:	Project Engineer:
New Source <input type="checkbox"/>	<u>G. W. Marshall</u> Name
Existing Source <input checked="" type="checkbox"/>	<u>Florida Power Corporation (Higgins #3)</u> Firm
Existing Source after modification <input type="checkbox"/>	<u>P. O. Box 14042, St. Petersburg, Fla. 33733</u> Mailing Address
Existing Source after Expansion <input type="checkbox"/>	<u><i>G. W. Marshall</i></u> Signature
Existing Source After relocation, expansion or reconstruction <input type="checkbox"/>	<u>6008</u> Florida Registration Number

The undersigned ~~XXXXXX~~ authorized representative° of Florida Power Corporation
is fully aware that the statements made in this form and the attached exhibits and statements constitute the application for an Operation Permit from the Florida Department of Air and Water Pollution Control and certifies that the information in this application is true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that the Permit is non transferable and, if granted a permit, will promptly notify the Department upon sale or legal transfer of the permitted establishment.



Signature of ~~XXXXXX~~ agent.

G. W. Marshall, Production Superintendent
Name and Title

Date: March 3, 1971

°Attach letter of authorization.

Project. History

DAWPC CONSTRUCTION PERMIT NO. & DATE _____

DIVISION OF HEALTH SERIAL NO. & DATE _____

FLORIDA POWER CORPORATION
ST. PETERSBURG FLORIDA

February 18, 1971

RECEIVED

MAR 1 1971

DEPT. OF A.W.P.C.
WEST CENTRAL REGION
WINTER HAVEN

Florida Department of
Air and Water Pollution Control
Suite 300, Tallahassee Bank Building
315 South Calhoun Street
Tallahassee, Florida 32301

Subject: Letter of Authorization

Gentlemen:

Please be advised that Mr. George W. Marshall, Production Superintendent, is properly authorized to be the representative in matters relating to Applications for Permits to Operate Existing Air and Water Pollution Sources of Florida Power Corporation, as required by the Florida Department of Air and Water Pollution Control.

Very truly yours,

FLORIDA POWER CORPORATION

A. J. Ormston
A. J. Ormston
Vice President

AJO:Bjh

**Information Regarding Pollution Sources
and Proposed Control Facilities**

XXXXXX

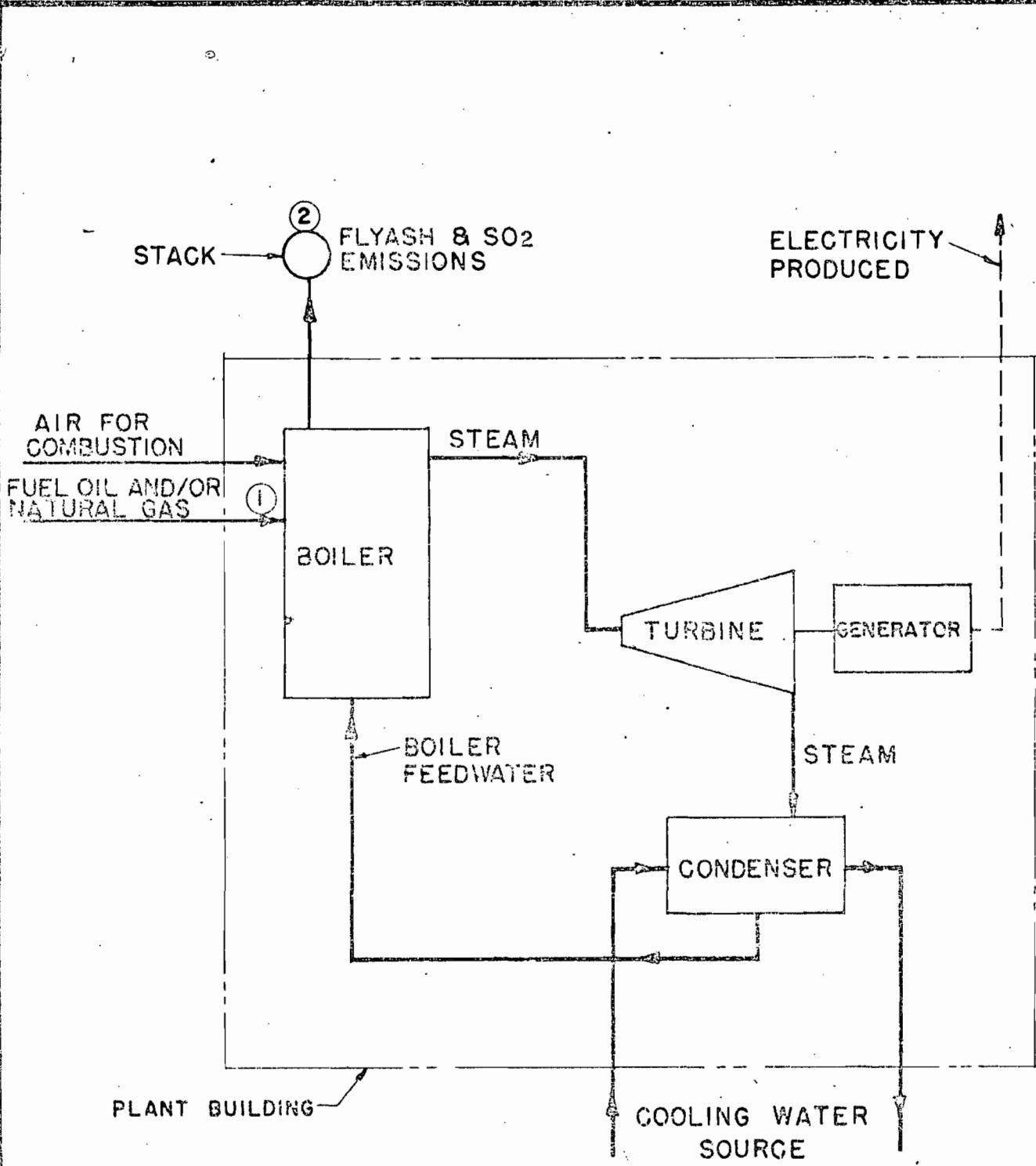
1. Actual cost of control facilities \$ 19,000.
2. Prepare and attach an 8½" x 11" flow diagram, without revealing trade secrets, identifying the individual operations and/or processes. Indicate where raw materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particulates are evolved and where finished products are obtained.
(Note Steam And Other Gaseous Emission Sources In Addition To Stack)
3. Include an 8½" x 11" plot plan showing location of manufacturing processes and location of outlets for airborne emissions. Relate all flows to the flow diagram.
4. ^X Submit an 8½" x 11" plot plan showing the exact location of the establishment and points of discharge in relation to the surrounding area, residences and other permanent structures and roadways. (USGS Map)

X

I General

A. Raw Materials and Chemicals Used.

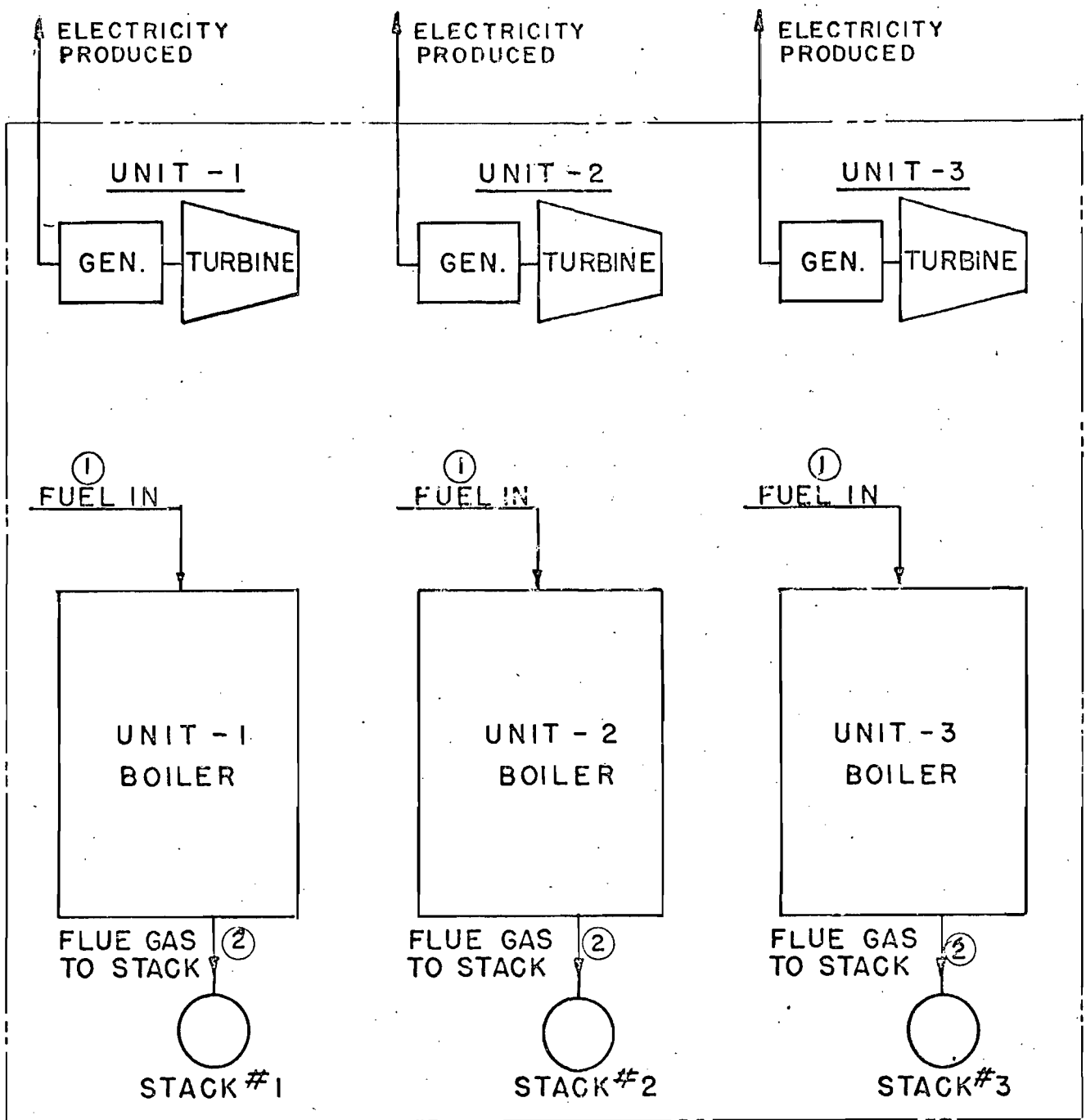
Description	Utilization Tons/day, Lbs./day, etc.	Approximate Contaminant Content		Relate to Flow Diagram
		Type	Percent Dry Weight	
N/A	N/A	N/A	N/A	N/A



NO.	DATE	REVISION	BY	CK.	APP.

DATE 2-4-71 SCALE NONE BY HGS CK EP APP. JTM

AIR POLLUTION
 FLOW DIAGRAM
 UNIT - 3 HIGGINS PLANT
 FLORIDA POWER CORPORATION
 ST. PETERSBURG, FLORIDA
 DRAWING NO. A - 719 - H



PLANT
BOUNDARY



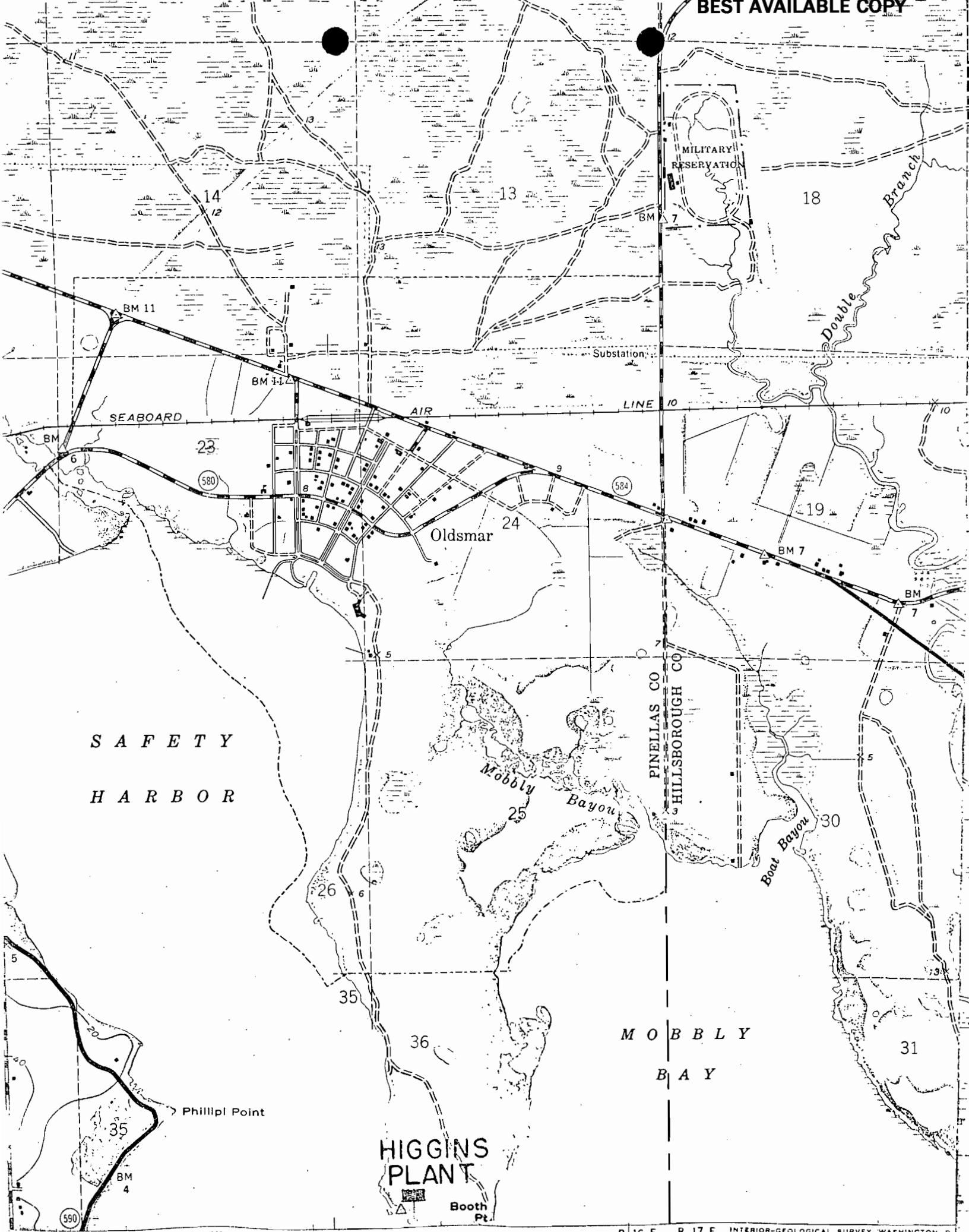
NO.	DATE	REVISION	BY	CK.	APP.

PLANT PLOT PLAN

PROJECT HIGGINS PLANT

FLORIDA POWER CORPORATION
ST. PETERSBURG, FLORIDA

DATE 7-8-71 SCALE NONE BY HEG CK EP APP BTJ DRAWING NO. A-113-H



S A F E T Y
H A R B O R

Oldsmar

Mobbly Bayou

Boat Bayou

PINELLAS CO
HILLSBOROUGH CO

M O B B L Y
B A Y

HIGGINS
PLANT

Phillip Point

Booth Pt.

SAFETY HARBOR 0.9 MI.

40'

B. Fuels

Type (Be Specific)	Daily Consumption	Gross Maximum Heat Output	Relate to Flow Diagram
81% - Oil	1,179 Bbl/Day	7,430,000,000 Btu/Day	
19% - Gas	1,761 mcf/Day	1,810,000,000 Btu/Day	1

C. Products

49,518 gal / day
9,240

Description	Average Daily Production (Tons/Day, Lbs/Hr. etc.)
Electricity	792 MWH/Day

D. Normal operation: Hours/Day 24 Day and Week 7

If operation or process is seasonal, describe: _____

II Identification of Air Contaminants

Compounds of:

Also -

- | | | | | | |
|----------|-------------------------------------|--------------|-------------------------------------|---------------|--------------------------|
| Chlorine | <input type="checkbox"/> | Hydrocarbons | <input type="checkbox"/> | Acid Mists | <input type="checkbox"/> |
| Fluorine | <input type="checkbox"/> | Smoke | <input type="checkbox"/> | Odors | <input type="checkbox"/> |
| Nitrogen | <input type="checkbox"/> | Fly Ash | <input checked="" type="checkbox"/> | Radioisotopes | <input type="checkbox"/> |
| Sulfur | <input checked="" type="checkbox"/> | Dusts | <input type="checkbox"/> | Other _____ | <input type="checkbox"/> |

Specific Compounds SO_x

III Air Pollution Control Devices

Contaminant	Control Device	Relate to Flow Diagram	Operating Efficiency	Conditions (Particle Size Range, Temp. etc.)
Fly Ash	Stack	2	N/A	300 ^o F @ 51 ft/sec
SO _x	Stack	2	N/A	N/A

Provide a brief description of the control device or treatment system. Attach separate sheets giving details regarding principle of operation, manufacturer, model, size, type and capacity of control/treatment device and the basis for calculating its efficiency. Show any bypasses of the control device and specify when such bypasses are to be used and under what conditions.

N/A

IV. Contaminant Balance

From contaminant content in raw materials, waste products, and manufactured products, summarize daily contaminant flow:

	Pounds Contaminant per Day (AVG)	
	Input	Output
List XXXXXXXXXX Fuel:		
Fuel Sulfur	9,705 Lbs/Day	
Fuel Ash	284 Lbs/Day	
List Manufactured Products:		
Electricity	N/A	N/A
List Solid Wastes: (Total Retained Ash)		30 Lbs/Day
List Liquid Wastes: N/A		
Totals	9,989 Lbs/Day	30 Lbs/Day
Airborne Wastes (Total input minus total output)		
	9,959 Lbs/Day	

Note: If more than one contaminant, specify each
 Contaminants recovered in control devices should be shown as either a liquid or a solid waste.

III Air Pollution Control Devices

Contaminant	Control Device	Relate to Flow Diagram	Operating Efficiency	Conditions (Particle Size Range, Temp. etc.)
Fly Ash	Stack	2	N/A	300 ⁰ F @ 51 ft/sec
SO _x	Stack	2	N/A	N/A

Provide a brief description of the control device or treatment system. Attach separate sheets giving details regarding principle of operation, manufacturer, model, size, type and capacity of control/treatment device and the basis for calculating its efficiency. Show any bypasses of the control device and specify when such bypasses are to be used and under what conditions.

N/A

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Airborne Wastes (Total input minus total output)		
9,959 Lbs/Day		

Note: If more than one contaminant, specify each
 Contaminants recovered in control devices should be shown as either a liquid or a solid waste.

V. Discharged Emissions to Atmosphere

A. Discharge Points and Design Conditions

Discharge Point Description	Relate to Flow Diagram	Height above Ground (ft.)	EXIT Cross Sect. Area (sq. ft.)	Periods of Flow Hrs./Day XXXXX XXXXX	Temp. of Discharge (°F)
Stack	2	174	123	24	300

B. Tabulation of Discharged Contaminants (Calculated Values)

Discharge Point - Relate to Flow Diagram	Flow Rate at Std. Cond. (cfm)	Total Contaminants Discharged					
		Particulates		Other Contaminants (F ⁻ , SO _x , NO _x etc.)			
		Gr/ft3 (Std. Cond.)	lbs./Day	Gr/ft3 (Std. Cond.)	lbs./Day	Gr/ft3 (Std. Cond.)	lbs./Day
Average Conditions) Stack (2)	127,000	.035	900	SO _x .446	11,600		
	(State Std. Cond. Used) 300 F, 29.92" Hg						
Peak Emission Condition and Frequency) (Frequency is approx. 4 hrs/day)	Stack(2) 152,000	.037	N/A	SO _x .448	N/A		
Totals							

**VI. Treatment and Disposal of Liquid and
Solid Waste**

1. Identify the contaminants which will be discharged as liquid or solid wastes.

Total Retained Ash

2. Describe the treatment and disposal of liquid and solid wastes. Indicate the concentrations and volume of individual contaminants in treated wastes before disposal.

Retained Ash is approx. 10,500 Lbs/Yr.

The Ash goes to a settling basin which is located on Plant Property.