

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.: A052-216420

County: Pinellas

Enclosed is Amended Permit Number A053-216420 to operate Higgins Peaking Unit No. 1, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 297 & 17-4.

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

The Petition shall contain the following information:

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

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

(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 [CI 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.

(Juspe OCT 27

Date

Certified Mail Receipt
No Insurance Coverage Provided
Do not use for International Mail

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

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Certified Mail Receipt
No Insurance Coverage Provided
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(See Reverse)

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

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Florida Department of Environmental Protection

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

Virginia B. Wetherell Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A052-216420

County: Pinellas

Expiration Date: 11-10-97 Project: Higgins Peaking

Unit No. 1

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of Higgins Peaking Unit No. 1. This unit is fired with natural gas or new No. 2 fuel oil. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 37.0 MW/hour having a maximum heat input rate of 566 MMBTU/hour. The maximum fuel usage rate is 0.57 MMCF/hour of natural gas or 96.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County

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

Replaces Permit No.: A052-137555

PERMITTEE: Florida Power Corporation Permit No.: A052-216420 Project: Higgins Peaking

Unit No. 1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.

- 2. Visible emissions from Higgins Peaking Unit No. 1 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
- Test Higgins Peaking Unit No. 1 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
- 4. Compliance with the visible emission limitation of Specific Condition No. 2 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
- 5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 1 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
- 6. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).

PERMITTEE: Florida Power Corporation

Permit No.: A052-216420 Project: Higgins Peaking

Unit No. 1

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

A. <u>Process Parameters:</u>

1. Maximum Load Rate 37.0 MW/hour

2. Maximum Heat Input Rate: 566.0 MMBTU/hour

3. Maximum Fuel Usage: 0.57 MMCF/hour natural gas, 96.0 BBL/hour new No. 2 fuel oil having a maximum sulfur content not to exceed 0.5% by weight

- 8. The BTU heating value, sulfur content (% by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.
- 9. Submit to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DER Form 17-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year (Rule 17-210.370(2)(a)1., F.A.C.).
- 10. Based on the original permit application, dated 9/8/77, and AP 42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

pounds/hour	tons/year
34.53	151.22
62.26	272.70
2.82	12.36
395.07	1,730.40
23.94	104.86
	34.53 62.26 2.82 395.07

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

PERMITTEE: Florida Power Corporation

Permit No.: A052-216420 Project: Higgins Peaking

Unit No. 1

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

	No. 2 Fuel Oil Pounds/MMBTU.	Natural Gas <u>Pounds/MMBTU</u>
Particulate Carbon Monoxide	0.061 0.048	0.0419 0.11
Nitrogen Oxides	0.698	0.44
	No. 2 Fuel Oil Pounds/10 ³ Gallons	
Sulfur Dioxide VOC	140s 5.57	940s 42

s denotes sulfur content, % by weight

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

13. Two applications for the renewal of this operating permit shall be submitted to the Air Section of the Department's Southwest District Office and one copy of the application shall be submitted to the Pinellas County Department of Environmental Management, Air Quality Division, at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

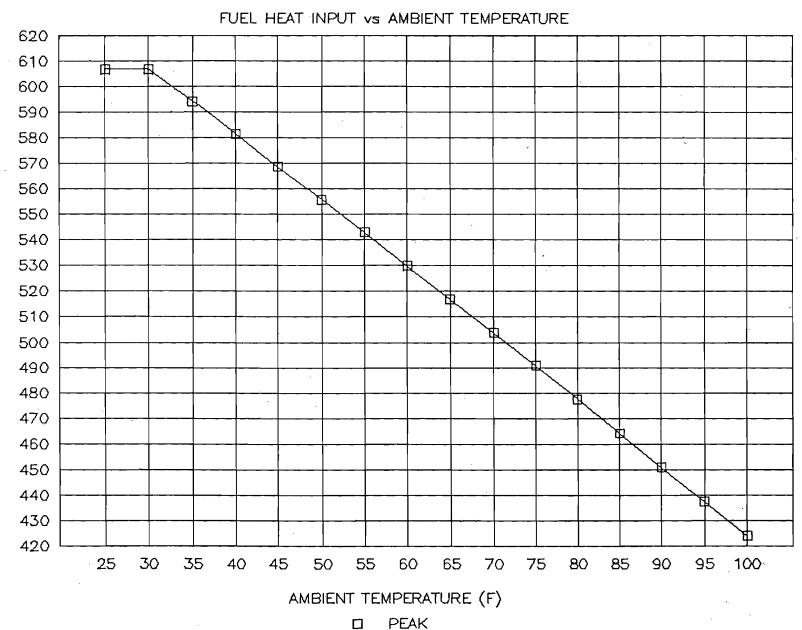
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

Southwest District

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

HIGGINS P1 COMBUSTION TURBINE



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:

AUSZ-216420

Mr. W. J. Pardue, Manager Environmental Programs Florida Power Corporation Post Office Box 14042 St. Petersburg, FL 33733 DER File No.: A052-216420

County: Pinellas

Enclosed is Permit Number A052-216420 to operate Higgins Peaking Unit No. 1, 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;



Page Two

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

- (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 alloted 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.

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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 BGX 14042
ST PETERSBURG FL 33733

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SENDER: Complete items 1 and/or 2 for additional services. Complete items 3, and 48 & b. Print your name and address on the reverse of this form so treturn this card to you. Attach this form to the front of the mailpiece, or on the backdoes not permit. Write "Return Receipt Requested" on the mailpiece below the a The Return Receipt Fee will provide you the signature of the per to and the date of delivery.	tif space 1. Addressee's Address rticle number. 2. Restricted Delivery
3. Article Addressed to: 4052 - 216420, GI	2 4a. Article Number P 019 942 811
MR W J PARDUE MANAGER ENV PROGRAMS FLORIDA POWER CORP PO BOX 14042 ST PETERSBURG FL 33733	4b. Service Type Registered Insured Certified COD Express Mail Return Receipt for Merchandise 7. Date of Delivery
Signature (Addressee) Signature (Addressee)	Addressee's Address (Only if requested and fee is paid)

UNITED STATES POSTAL SERVICE

Official Business





Print your name, address and ZIP Code here

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
3804 COCONUT PALM
TAMPA, FLORIDA 33619

P 079 942 812

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE ODVERAGE PROVIDED NOT FOR INTERNATIONAL MAIL

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

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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 the eturn this sard to you. Attach this form to the front of the mailpiece, or on the back does not permit. Write "Beturn Receipt Requested" on the mailpiece below the art of the Return Receipt Fee will provide you the signature of the person and the date of delivery.	if space 1. Addresses's Addre	tra
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5. Signature (Addressee)	Addressee's Address (Only if reque and fee is paid)	stec

UNITED STATES POSTAL SERVICE

Official Business





Print your name, address and ZIP Code here

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
3804 COCONUT PALM
TAMPA, FLORIDA 33619

O

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 <u>NOV 1 3 1992</u> 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.

Deuske NOV 1 3 1992

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Florida Department of Environmental Regulation

Southwest District

Lawton Chiles, Governor -

3804 Coconut Palm 813-744-6100 Tampa, Florida 33619
Carol M. Browner, Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION:

Permit No.: A052-216420

County: Pinellas

Expiration Date: 11-10-97 Project: Higgins Peaking

Unit No. 1

This permit 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. 1. This unit is fired with natural gas or new No. 2 fuel oil. This unit is a gas turbine unit consisting of two Pratt & Witney jet engines. This unit is rated at 33.8 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 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: 04

Replaces Permit No.: A052-137555

PERMITTEE: Florida Power Corporation

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

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.

- 2. Visible emissions from Higgins Peaking Unit No. 1 shall not be equal to or greater than 20% opacity (Rule 17-2.610(2)(a), F.A.C.).
- 3. Test Higgins Peaking Unit No. 1 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 requirements of 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. 1 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.: A052-216420 Project: Higgins Peaking

Unit No. 1

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 canendar 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

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 Bidg. • 2600 Blair Stone Road. • Tallahassee Florida 32399-2400

*DER form e	
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Efective Dave	
DER Application No	f ⊕ c in sviDEP (

A052-216420

D.E.R.

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

AUG 2 4 1992

City: Oldsmar

If major a	alterations have occurred, the a	SOUTHWEST DISTRICT applicant should complete the ASAPA dard Air
Source Type: _	Higgins Peaking Unit l	Renewal of DER Permit No. A052-137555
Company Name:	Florida Power Corporation	County: Pinellas
Identify the s Kiln No. 4 with	pecific emission point source(s n Venturi Scrubber; Peaking Uni) addressed in this application (i.e., Lime t No. 2, Gas Fired):

Gas Turbine Peaking Unit 1

UTM: East 17-336.54 North 3098.325

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

NEDS No. 0012 Point ID: 04

Source Location: Street: Booth Road

- 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 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.

 Compliance test performed on January 7, 1992
- 4. Have previous permit conditions been adhered to? [x] 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 [x] 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? [x] Yes [] No
- 7. Has the annual operating report for the last calendar year been submitted?
 [] No If no, please attach.

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

Page 1 of 2



[X] Yes

- 8. Please provide the following information if applicable:
 - Raw Materials and Chemical Used in Your Process:

	Description		Contaminant			Utilization	
<u> </u>	<u> </u>	Туре		#W t	Rate	1	bs/hr
		 					
\Box		<u>.</u>			L		

- Product Weight (lbs/hr):
- С. Fuels

Туре	Consut	aption*	Maximum Heat
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/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	
	· · · · · · · · · · · · · · · · · · ·	
An=2-21/420		

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 logal transfer of the permitted facility.

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

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

Mardine						
Signature, Owner or	Authorized Representative					
(Notarization W.J. Pardue, Manager	on is mandatory) r – Environmental Program					
	ame and Title					
P.O. Box 14042						
Address						
St. Petersburg,	FL 33733					
City	State Zip					
7-15-92	(813) 866-4387					
Date	Telephone No.					

Telephone No.

Page 2 of 2

W.g. Pardue personally appeared before me this 15th day of July, 1892. M-y-R. Bl

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 1

Source Permit No.:

AO 52-137555

Source ID:

NEDS NO. 0012 POINT ID: 04

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

Affix Seal

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)

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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 GOVERNO 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

AUSZ-137555

Dear Mr. Hancock:

Pinellas County - AP Re: Higgins Peaking Unit No. 1

Enclosed is Permit Number AO52-137555 to operate a peaking unit (designated as Unit No. 1), 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

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.

Clerk

Date

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.: AO52-137555
County: Pinellas

Expiration Date: 9-16-92 Project: Higgins Peaking

Unit No. 1

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

For the operation of Higgins Peaking Unit No. 1 using natural gas or #2 fuel oil. Peaking Unit #1 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: 04

Replaces Permit No.: A052-58633

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

PERMITTEE: Florida Power Corporation

Permit No.: AO52-137555
Project: Higgins Peaking
Unit No. 1

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.: AO52~137555
Project: Higgins Peaking
Unit No. 1

- 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 recurrance 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.: AO52-137555
Project: Higgins Peaking
Unit No. 1

- 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.: AO52-137555
Project: Higgins Peaking
Unit No. 1

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

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

PERMITTEE: Florida Power Corporation Permit No.: AO52-137555
Project: Higgins Peaking
Unit No. 1

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:

Pollutant Test Method

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 ±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 No. 1 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 & Witney jet engines

PERMITTEE: Florida Power Corporation

Permit No.: A052-137555 Project: Higgins Peaking

Unit No. 1

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

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

Three applications to renew this operating permit shall be 9. 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 /12

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard D. Garrity/Ph.D.

District Manager

AQ50-137555

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

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



908 GRAHAM GOVERNOR VICTORIA 1. TSCHINKEL SECRETARY

[] Yes

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

Sau	rce Type: Higgins Peaking Unit 1	Renewal of DER Permit No. A052-5	58633
Com	pany Name: Florida Power Corporation	County:Pinellas	
	ntify the specific emission point source(s n No. 4 with Venturi Scrubber; Peaking Uni		e., Lime
	Gas Turbine Peaking	; Unit 1	
Sau	rce Location: Street: <u>Booth Road</u>	City: Oldsmar	•
	UTM: East 17-336.5	North 3098.3	<u> </u>
	Latitude: 2 8 0 0 0' 0 8 N.	Langitude: <u>8 2 ° 3 9 ′ 4 9 °</u> W	•
	Attach a check made payable to the Depart with operation permit fee schedule set 17-4.05.	t forth in Florida Administrative	Code Rule
2.	Have there been any alterations to the pl If minor alterations have occurred, descr		
	See attached letter: Attach the last compliance test report repreviously.	equired per permit conditions if no	t submitted
4.	Have previous permit conditions been adhe separate sheet and attach.	ered to? [X] Yes [] No If no, e	xplain on a
_	Has there been any malfunction of the pol	llution control equipment during ten and not previously reported, give br	
5.	and what action was taken on a separate s		10. 406411

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

[X] No If no, please attach. See attached letter.

Page 1 of

7. Has the annual operating report for the last calendar year been submitted?

- Please provide the following information if applicable:
 - Raw Materials and Chemical Used in Your Process:

Description		Contami	inant	t	Jtilization
	Type	<u> </u>	%W-t	Rate	lbs/hr
			•		

B. Product Weight (lbs/hr):	8.	Product	Weight	(lbs/hr):
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Fuels

Type	Con	sumption*	Maximum Heat
(Be Specific)	Avg/hr*	Max/hr**	Inout (MMBTU/hr)
Number 2 fuel oil	96	96	5.66
Natural gas	0.57	0.57	566
		·	

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

The undersigned owner or authorized representative*** of <u>Florida Power Corporation</u> 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 newill promptly notify the Department upon sale or legal transfer of the permitted facility.

*Dur	ing	actual	time	o f
00	erst	inn.		

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

***Attach letter of authorization if not previously submitted

Signature, Owder or Authorized Representative (Notarization is mandatory)

J.A. Hancock, Vice President, Fossil Operations

. Typed Name and Title

P.O. Box 14042

Address 33733 Petersburg Stata 813/866-4524 Telephone No. Date

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

Page 2 of 2 S.A. 0 Sworn to and subscribed before me this 17th day of July, 1987.

Commission Expires: October 21, 1990



Florida Power

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 Source No. 1 (AO09-117845) Bartow Fly Ash System (AO52-71879) Source No. 2 (AO09-117846) Source No. 3 (AO09-117847) Bartow Anclote Pipeline Heater (AO52-80149) Source No. 4 (AO09-114093) Bayboro P-1 (AO52-89916) Source No. 5 (AO09-114094)) Bayboro P-2 (AO52-39915) Higgins Unit 1 (AO52-56652) Bayboro P-3 (AO52-39914) Higgins Unit 2 (AO52-56653) Bayboro P-4 (AO52-89911) 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

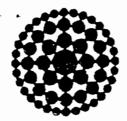
cc: Mr. Peter Hessling

Elin R. Manilo

Pinellas County Department of Environmental Management

Division of Air Quality

w/attachments, Bartow, Bayboro and Higgins)



Florida Power

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

MARCO /JAH

Vice President, Fossil Operations

Hancock (MO2)C3-1

JAH:ey

DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 63820

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Tlanda Power Date July 29, 198

Address P. O. Bon 14042 Dollars \$ 100.00

Applicant Name & Address Dame as about

Scurce of Revenue Dame as about

Revenue Code DIDI Application Number AD52-58633

By Morothy Polham

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION Nº 113805
RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE
Received from 7/a Porcer Corp. Date 7/31/87
Address P.O. Box 14042, St Pete, Yla. Dollars \$ 100.00
2772
Applicant Name & Address Same
Source of Revenue Higgins Peaking Unit 1
Revenue Code
CK 935906 By Ema Harris
C(1 125100
<u> 1 </u>
RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE Received from Long Company Date 7/3/87 Address Dollars \$ 100 00000000000000000000000000000000
Source of Revenue Higging Pooting Unit
Revenue Code O1030 Application Number (1053 - 137555

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 #1

Enclosed is Permit Number A052-58633 dated $\frac{10/22/82}{}$, 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

你还会会

Charles Control

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.: A053-58633 County: Pinellas

Project: Higgins Peaking Unit #1

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 #1 using #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.: AO52-5702 NEDS No.: 0012 Point ID: 04

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.

DER Form 17-1.122(63) Page 1 of 4.

Appl. Name: Florida Power Corporation Project: Higgins Peaking Unit #1

Page 2 of 4 of Permit No.: A052-58633

- 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 #1 Page 3 of 4 of Permit No. AO52-58633

10. The permittee, by acceptance of th to allow access to permitted source at

- 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	emiss:	ions f	or the	follo	wing p	ollut	ant(s)	at	interva	ls of
12 n	nonths	s fro	om the	date	Septem	ber 29	, 1982	2 and	submit	a c	opy of	test
data	a to t	the A	Air Sec	ction	of the	South	west [Distri	ct Offi	ce	within	forty
five	days	of	such t	testin	g (Sec	tion 1	7-2.70	0 (2)	, Flori	.da	Adminis	trative
Code	(F.A	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 #1 Page 4 of 4 of Permit No.: A052-58633 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. Annual amount of materials and/or fuels utilized. (A) (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 must 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 22 day of Actale 1972 STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION W. K. Hennessey District Manager EXPIRATION DATE October 12, 1987







JUL 29 1982

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Source Type: <u>Peaking Unit</u>	Renewal of DER Permit No.: <u>A052-5702</u>
Company Name: Florida Power Corporatio	
dentify the specific emission point source(s) addressed Jnit No. 2. Gas Fired): Higgins #1 Peaking Unit	in this application (i.e.; Lime Kiln No. 4 with Ventrui Scrubber; Peaking
Source Location: Street: Booth Road	City: Oldsmar
UTM: East	North
Latitude: <u>2</u> <u>8</u> ° <u>0</u> <u>0</u> , <u>0</u> <u>8</u> "N.	•
5. Has there been any malfunction of the pollution If yes, and not previously reported, give brief details	permit conditions if not submitted previously.
- Yes No	
_X Yes No	r year been submitted? X Yes No If no, please attach.
_X Yes No	ole: N/A
 X Yes No Has the annual operating report for the last calenda Please provide the following information if applicable 	ole: N/A
 X Yes No Has the annual operating report for the last calenda Please provide the following information if applicab A. Raw Materials and Chemical Used in Your Properties 	ole: N/A ocess: Contaminant Utilization

C. **Fuels**

Туре	Consur	Maximum Heat			
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/hr)		
No. 2 Fuel Oil	96	96	566		
Natural Gas	0.57	0.57	566		
·	·				

D.	Normal Equipment	Operating	Time:	hrs/day		; day:	s/wk	; v	vks/yr	· ——	_ ; hrs,	yr (powe	er plant	s only)
	8760; if seasonal	, describe								<u> </u>				
•	,				٠.				-			•		
										•				,
·	:d			*** -4	I	Florida	. Power	· Cor	pora	tion		. :		
s tully aw and compl	signed owner or author are that the statemer ete to the best of his ion control facilities	its made in to s knowledge in such a ma	and be anner a	lication i lief. Fur s to com	for a ther, aply	renewar o the unde with the p	r a permit rsigned agorovisions	grees to of Ch	erate a o mai: apter	ntain ar 403, Fl	orida S	ate the parties, a	re true, ollution and all th	source ne rule

Signature, Owner or Authorized Representative (Notarization is mandatory)

Florida Power Corporation, Address

State

(813) 866-4140

*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.

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



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT 7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610

REUBIN O'D. ASKEW GÖVERNOR

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: A052-5702

Dear Mr. Stewart:

Pursuant to your recent application, please find enclosed a permit (No. A052-5702) 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.

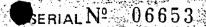
You have ten days from the date of receipt hereof within which to seek a review of the conditions and requirements contained in this permit. Failure to file a written request to review or modify the conditions or requirements contained in this permit shall be deemed a waiver of any objections thereto.

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





DEPARTM	ENT OF
ENVIRONMENTAL	REGULATION
PINELLAS COUNTY	
OPERATION	PERMIT
FOR Floridal Power	Corporation
Post OfficeCBo	
	(/F1 933733 C)
	ATE OF ISSUEL October 10: 1977
STATUTES AND CHAPTERS 17-4 AND 17-7 FLORIDA ADM	and the second of the second o
Mr. W.P. Stewart - Director, Pow FOR THE OPERATION OF THE FOLLOWING	rer_Production to the second s
The No. I Higgins Peaking Unit.	The second control of
#2 oil. Subject to provisos 1,2	7375;6:09;3 X = 1X
	N// = 0.25 R
LOCATEDAY Oldsmar, Pinellas County	
UTM 336540 E 3098250 N	
IN ACCORDANCE WITH THE APPLICATION DATED. Septe	
ANY CONDITIONS OF PROVISOS WHICH ARE ATTACHED H	
CONDITIONS OF PROVISOS SHALE CONSTITUTE A VIOLAT	ION OF THIS PERMIT AND SHALL SUBJECT THE VI
THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ISS	UEUNTIL September 21, 1982
OR UNITESS TREVOKED OR SURRENDERED AND SHALL BE.	SUBJECT TO ALL LAWS OF THE STATE AND THE H
XIII -	JOSEPH W.LANDERS JR.
Uniting! Engineers	SEGRETARY
	DISTRICT MANAGER
GWR	77 - 77

State of Florida Department of Environmental Regulation

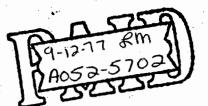
OPERATION PERMIT CONDITIONS FOR AIR POLLUTION SOURCES

Permit No.: A052-5702 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

SOUTHWEST DI TAMPA

Application for Operation

Permit Renewal

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

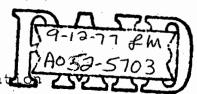
Α.	Business Name	Florida Power Corporation
•	Mailing Address	P.O. Box 14042
		St. Petersburg, FL 33733
	Current Permit Number	AO 52-3120 P-1
_		
B.	Raw Material Usage	
	Type	Amount Consumed
:		
C.	Fuel Usage *	
	Type	Amount Consumed % Sulfur
	Natural Gas	73743 MCF
	#2 Fuel Oil	4714 bb1 0.07
D.	Production Rates	
υ.	Туре	Amount Produced
ī.	Electricity	6450 MWH

^{*}January thru July, 1977

Ė.	Norma	l Ope	ting Ti	me.			•		·		
	1. H	ours p	er d xxx . :	Month		· ·	34			•	
,	2. D	ays pë	r week			. 1					
	3. 77	eeks p	er yéar,				· .				
F.	Emiss	ion Qu	antities	(po	unds/ho	our)	N/A for	gas tur	bine	•	
	1. P	articu	lates		0.00			· · · · · ·	· .		٠.
. •	2. S	. 2				· 			·		
	3. N	0 ₂ . 0				: 		<u> </u>			
	5. E	ydroca	rbons						:		
G.	Any c	hanges	in cont	rol equ	ipment	N/A			<u>;</u> ;		. ;
					•				· · · · · · · · · · · · · · · · · · ·		
	, ,		:			:					
									· .		
sta	ower Content	rporatio s made	owner o n in this nd compl	applic	ation f	s ful for ar	lly awa n opera	are tha ation p	t the	are	
lie the	f. Fu pollu	rther, tion s	the und ource an mply wit	ersigne d pollu	d agree	es to ontrol	mainta L facil	ain and Lities	oper	ate ch a	
Sta rev	tutes isions	and al there	l the ru of. He	les and also un	regula derstar	tions	of the	ne Depa permit,	rtmen if g	t or ranted	
not		e Depa	nt, will rtment u								1
ED EM	AST SO		Sichar	W.C.	Star Own	va i	Autho	orized	Repre	sentati	ve
GIRC	7		.	tewart, D							
103	d S &								(Ple	ase Typ	pe)

Telephone No: (813) 866-4159

Attach a letter of authorization



Department of Environmental Regulat

Application for Operation

Permit Renewal

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

Α.	Business Name	Tiorida Fower Corporación
- .:	Mailing Address	P.O. Box 14042
		St. Petersburg, FL 33733
	Current Permit Number	A052-3118 P-2
В.	Raw Material Usage	
	Type	Amount Consumed
•		
•		
·.		
С.	Fuel Usage *	
	Type	Amount Consumed & Sulfur
	Natural Gas	24139 MCF
,	#2 Fuel Oil	14789 bb1 0.07
D.	Production Rates	
	Type	Amount Produced
,	Electricity	6862 MWH
<i>:</i>		

*January thru July, 1977

É.	Nor	mal Openting Time	
	1.	Hours per CAX month	35
	2.	Days per week	
	3.	Weeks per year	
ਜ	Emi	ssion Quantities (pounds/hou	ur) N/A for gas turbine
			it) WA for gas carbine
. ,	• •	Particulates	
· ,	2.	so ₂	
	3.	NO ₂	
• .	4.	co	
	5.	Hydrocarbons	
· · ·	1	changes in control equipment	
Pow strue lief the mann stavi by oti esta	er Ceres Constant Con	nts made in this application for orrect and complete to the best Further, the undersigned agrees lution source and pollution cor as to comply with the provisions and all the rules and regulating thereof. He also understand Department, will be non-transfethe Department upon sale or legislation. Signature or the Owner of the Owner or the Owne	or an operation permit are of his knowledge and best to maintain and operate atrol facilities in such a sof Chapter 403 Floridations of the Department or is that a permit, if granted erable and he will promptly gal transfer of the permitted
10 315 30 315		W.P. Stewart Director, I	Power Production Name and Title (Please Type)

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

Mattach a letter of authorization

BEST AVAILABLE COPY

9-12-77 RM 7 12052-5704

Department of Environmental Regulat

Application for Operation

Permit Ranewal.

(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
В.	Raw Material Usage	
	Type	Amount Consumed
· · ·		
· ·		
C.	Puol Bones #	
	Fuel Usage * Type	Amount Consumed % Sulfur
	Natural gas	121099 MCF
	#2 Fuel Oil	2637 bb1 0.07
	·	
D.	Production Rates	
•	Type	Amount Produced
	Electricity	9153 MWH
	,	

E. Normal Operation	g Time		BEST AVAILABLE COPY	
1. Hours per 🎚	ድሂጻ month	42		
2. Days per we	ek	· · ·		
3. Weeks per y	ear		<u> </u>	
F. Emission Quanti	ties (pounds	/hour) N/A	for gas turbine	
1. Particulate	5			
2. so ₂				
3. NO ₂				
4. CO				
5. Hydrocarbon	5			
G. Any changes in				
G. Ally Challyes Ill	con-or edurbwe	N/A		
·				
The undersigned own	er or authorize			
Power Corporation		is fully av	are that the	
Power Corporation statements made in true, correct and c	this applicatio	_ is fully as n for an oper best of his ?	are that the ation permit are mowledge and be-	
Power Corporation statements made in true, correct and c lief. Further, the	this application on plete to the undersigned ag	_ is fully averaged in for an operaged best of his brees to maint	eare that the ration permit are mowledge and be-	
Power Corporation statements made in true, correct and c lief. Further, the the pollution source	this application the caplete to the undersigned age and pollution	is fully avenue is fully avenue. It is fully as to his brees to maintain control factors.	are that the are mowledge and be- cain and operate lities in such a	
Power Corporation statements made in true, correct and c lief. Further, the the pollution sourc manner as to comply	this application caplete to the undersigned age and pollution with the provi	is fully as n for an oper best of his brees to maint control facing sions of Chap	eare that the sation permit are mowledge and be- sain and operate lities in such a pter 403 Florida	
Power Corporation statements made in true, correct and c lief. Further, the the pollution sourc manner as to comply Statutes and all th revisions thereof.	this application on plete to the undersigned age and pollution with the provier rules and regulars	is fully averaged is fully averaged in for an operaged best of his rees to maintain control factors of Characteristics of tands that a	eare that the ration permit are mowledge and be- cain and operate lities in such a pter 403 Florida the Department or permit, if grant	ed
Power Corporation statements made in true, correct and c lief. Further, the the pollution sourc manner as to comply Statutes and all th revisions thereof. by the Department,	this application caplete to the undersigned age and pollution with the provies rules and regulars unders will be non-tra	is fully as n for an oper best of his brees to maint control facilities of Chapulations of tands that a nsferable and	vare that the vation permit are knowledge and be- cain and operate lities in such a pter 403 Florida the Department or permit, if grants in will promptly	ed
Power Corporation statements made in true, correct and o lief. Further, the the pollution sourc manner as to comply Statutes and all th revisions thereof. by the Department, notify the Departme	this application caplete to the undersigned age and pollution with the provies rules and regulars unders will be non-tra	is fully as n for an oper best of his brees to maint control facilities of Chapulations of tands that a nsferable and	vare that the vation permit are knowledge and be- cain and operate lities in such a pter 403 Florida the Department or permit, if grants in will promptly	ed
Power Corporation statements made in true, correct and c lief. Further, the the pollution sourc manner as to comply Statutes and all th revisions thereof. by the Department,	this application caplete to the undersigned age and pollution with the provies rules and regulars unders will be non-tra	is fully as n for an oper best of his brees to maint control facilities of Chapulations of tands that a nsferable and	vare that the vation permit are knowledge and be- cain and operate lities in such a pter 403 Florida the Department or permit, if grants in will promptly	ed
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Power Corporation statements made in true, correct and o lief. Further, the the pollution sourc manner as to comply Statutes and all th revisions thereof. by the Department, notify the Departme establishment. Si	this application caplete to the undersigned age and pollution with the provies rules and regulars unders will be non-tra	is fully aven for an open best of his rees to main control fact sions of Charles that a naferable and legal transfer or Auto Cwner or Auto	are that the sation permit are mowledge and be- sain and operate lities in such a ster 403 Florida the Department or permit, if grant ine will promptle er of the permit	ed

Telephone No: (813) 866-4159

*APTEOn a letter of authorization

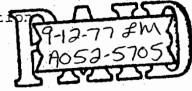
Date: 9/8/77

BEST AVAILABLE COPY

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	Corpo	ration		
	Mailing Address		P.O. Bo	x 14042			•	
			St. Pet	ersburg	, FL	33733		
	Current Permit Numbe	er		A052-2	036	P-4	<u> </u>	
В.	Raw Material Usage			!				
	Туре	<i></i>			,	Amount	Consu	ned
•				· · · · -	,			
			· · · · · · · · · · · · · · · · · · ·					
С.	Fuel Usage *							
	Typs	Ai	nount (Consume	≘ದ ಼		₹ Su	lfur
	Natural Gas		66888	MCF		-		. · · ·
	#2 Fuel Oil	·	12411	bbl			0.0	1
· · .			<u> </u>	· · · · · · · · · · · · · · · · · · ·	· ,.	.	·	,
D.	Production Rates							
	Zābs			A	TOUR	t Profil	iced	· · :
	Electricity			9080 M	WH			· ·
				·				· ·
				· .		·.		

^{*}January thru July, 1977

E. Normal Operat	ing Time		BES	ST AVAILABLE CO	PΥ
. 1. Hours per	⊂x3x month		39		
2. Days per	week				
3. Weeks per	Year				
F. Emission Quan	tities (po	ounds/hour) N/A for	gas turbine	
1. Particula	tes				
2. so ₂					
3. NO ₂					
4. CO					
5. Eydrocarb	ons		·		
G. Any changes i	n control equ	ipment N/	A		
					
		· · · · · · · · · · · · · · · · · · ·			
					*.
The undersigned o		_			
<u>Power Corporation</u> statements made i	n this applic	cation for	fully aware an operati	ion permit a	ere
true, correct and lief. Further, t	complete to	the best	of his know	vledge and h)e-
the pollution sou	rce and pollu	tion cont	rol facilit	ties in such	ı a
manner as to comp Statutes and all					
revisions thereof by the Department					
notify the Depart					
establishment.		_			
Manufacture of the second	<u> W. (.</u>	Steen	e D		
The Property of	Piùnature or	the Owner	or Authori		entative
16 - 274 25	W.P. Stewart				and Fileman
The state of the s				Fitle (Pleas	-
The state of the s	Date: 9/8/77	Tel:	ephone No:	(813) 866-415) 9





WEST CENTRAL REGION WINTER HAVEN

STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

APPLICATION TO OPERATE/COMSTRUCT POLLUTION SOURCES

SECTION I – GENERAL INFORMATION FOR ALL POLLUTION SOURCES

· ·		1 TO BE FILLED	IN BY AFFLICANI	• .	5984
Source Type: Type application: Status Source:	Air Pollution [x] Operation [] New	[] Tempora [x] Existing	ry Operation	Construction Modification	
Source Name. Hi	ggins Peaking	Unit P-1	Cou	ınty: <u>Pinella</u>	as
Source Location: Stre (Water Source Only) (Air Source Only)		•,	City City		FL 33557
Appl. Name and Title: Appl. Address:	P. 0. Box	14042, C-4, S	r, Power Productions. Petersburg, F	L 33733	· · · · · · · · · · · · · · · · · ·
Control No: Region			Туре		
Type Permit	Date Rec'd	*Permit No:	*Issue Date	Compl. Date	*Exp. Date
Source Description: _ Control Equipment: _					
Receiving Body Code: Station No.: Influent:			Permits Surface Water Cod Effluent:		
Effluent: Flow rate, BOD, lbs/d Susp. Sol., Other:	MGD lay lbs/day	Average	Design	% Reducti	on
Operating Time: Fuel: Type	[] Continuous		ermits [] Intermitte M-BTU/hr. In Put		
-	y, tons/duy Models/day	Actual		Allowabie	
Particul Sulfur C Other:	ate Oxides				
Implementation: Estin			_ Estimated Complia	_ nce Date	

DESCRIPTION OF PROPOSED PROJECT

	N/A	· · · ·		
	WA	 	_	
			_	-
			<u>. </u>	
			<u></u>	
:		<u> </u>	-	
	 			
		· · · · · · · · · · · · · · · · · · ·		٠.
				٠
sched	ule of Project Covered in this Application (Construction Permit Application Only).			
Fe	ederally or State Financed Projects only: N/A			
	Planning Complete			_
	Financing Program Complete			
	Indicate other local, state and/or federal agency approvals and dates			
_	<u> </u>			_
-	·			-
A.	I projects: Start of Construction			- -
	I projects: Start of Construction Completion of Construction	the propos	ad prois	_ _
Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of to control purpose only). Information on actual costs shall be furnished with the application of the costs of	the propos	ed proje operatio	ct ser
Costs	Il projects: Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of to control purpose only). Information on actual costs shall be furnished with the application of costs of the control purpose only.	the propos	ed proje operatio	ect ser
Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of to control purpose only). Information on actual costs shall be furnished with the application of the costs of	the propos	ed proje operatio	ect ser
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Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of to control purpose only). Information on actual costs shall be furnished with the application of the costs of	the propos	ed proje operatio	ect ser
Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of ion control purpose only). Information on actual costs shall be furnished with the appliance of the control purpose only (N/A)	the propos	ed proje operatio	ect ser
Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of to control purpose only). Information on actual costs shall be furnished with the application of the costs of	the propos	ed proje operatio	ect ser
Costs	Start of Construction Completion of Construction of Construction (Show a breakdown of costs for individual components/units of ion control purpose only). Information on actual costs shall be furnished with the appliance of the control purpose only (N/A)	the propos	ed proje operatio	ect ser

AIR POLLUTION SOURCES & CONTROL DEVICES

A. Identification of A 1) [X] Partice a) [] Due	ilate s		c) [] Smoke	d) [] (Other (Ide	ntify)
2) [x] Sulfur a) [x] SO,			Redn ce	ed Sulfur as H ₂ S	c) [] C	Other (Ide	ntify)
3) [x] Nitrog a) [x] NO		nds b) [] N	NH ₃		0 [] 0	other (Ide	ntify)
4) [] Flourid	des	5] (Acid Mist	•)[](Odor
7) [] Hydro	carbons	. 8	9) L] Volatile Organ	nic Compounds	44	
9) [] Other	(Specify):				·		
B. Raw Materials and	Chemicals	Used (Be Specif	ic)	N/A			
Description		Utilization Tons/day, lbs./day, etc		Approx Contam Conto	inant ent	1	Relate to ow Diagram
· · · · · · · · · · · · · · · · · · ·	•7	•	7.	Туре	%Wi.	-	
					,		
2) Product Wei	ght		lb./	lbs./hr. [See Shr. expressed as	·		is unit will
<u>opera</u>	<u>te durin</u>	<u>q peak per</u>	iods	of system of	demand.		
D. Airborne Contami	nants Disch	arged:					
Name of Contaminant	Act Disch	ual arge Calc.		Discharge Criteria	Allowabi Discharge		Relate Location to Flow Diagram
Particulates	16 1b/	day					
\$02	46 16/	day					
			<u>-</u>				
	1				1 .		

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

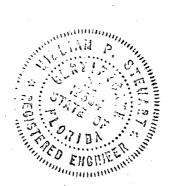
Control Devices: N/A				
Name	Em.	The state of the s	ons of Operation, Size Range, etc.	Relate to Flow Diagram
-		:	-	
Fuels:				
Type (Be specific)	Daily Co	onsumption	Heat Input BTU/hr.	Relate to Flow Diagram
Jet A , or	2539 ga	1.	14 x 10 ⁶	·
Gas	1817 mc	f.	77 x 10 ⁶	
Describe briefly, without revealing identified in this application:		· ·· .		
Fuel is burned in the used to drive the turb				ses. These yases
used to dilive the turn	THE WITTEN		30	
Indicate liquid or solid wastes gene				
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.
	Signature of the Owner or Authorized Representative
	W. P. Stewart, Director, Power Production
	Name and Title (Please Type)
	Name and the (riease 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 (1) P. The curet Mailing Address: Florida Power Corporation
	Signature (1). 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)
	threat type)
Flo	orida Registration Number 12594 Date: June 27, 1975
0	(Please affix seal)

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,

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.

A.D., 1975.

SECRETARY OF STATE





STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

REUBEN O'D. ASKEW

CENTRAL SUBDISTRICT
P.O. BOX 9205
500 E. CENTRAL AVENUE
WINTER HAVEN. FLORIDA 33880
October 31, 1975
Pinellas AP
Florida Power Corp.

JOSEPH W. LANDERS JR.

W.P. Stewart, Florida Power Corp., P.O. Box 14042, St. Petersburg, Fla. 33733

Dear Sir:

This permit will expire on 10-31-77 , 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. District Engineer

JHK/JLT/bbe

cc: W.P.Stewart, Engineer



OPERATION RERMIT

P. O. BOX 14042cc-4

St. Petersburg, Fla. 33733

PERMITINO. A052-3120

DATE OF ISSUE 10-31-75

PURSUAND TO THE PROVISIONS OF SECTIONS 403.061(16) AND 403.707 OF CHAPTER 403 FLORIDA STATUTES AND CHAPTERS 174 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-1

(Heat input 14 x 106; BTU/hr)

Subject to attached conditions of approval numbers, 1,2,3,4,5,6,9 and 10

LOCATED AT UTM East 3-36540 North 3098250

IN ACCORDANCE WITH THE APPLICATION DATED. June 27, 1975

ANY CONDITIONS OR PROVISOS WHICH ARE ATTACHED HERETO ARE INCORPORATED INTO AND MADE A

PART OF THIS PERMIT AS THOUGH FULLY SET FOURTH HEREINS FATEURE 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 $10 extstyle{-}31 extstyle{-}77$

OR UNTIL REVOKED OR SURRENDERED AND SHALL BE SUBJECT TO ALL LAWS OF THE STATE AND THE

RULES AND REGULATIONS OF THE DEPARTMENT.

JOSEPHWI ANDERS J

DISTRICT MANAGER

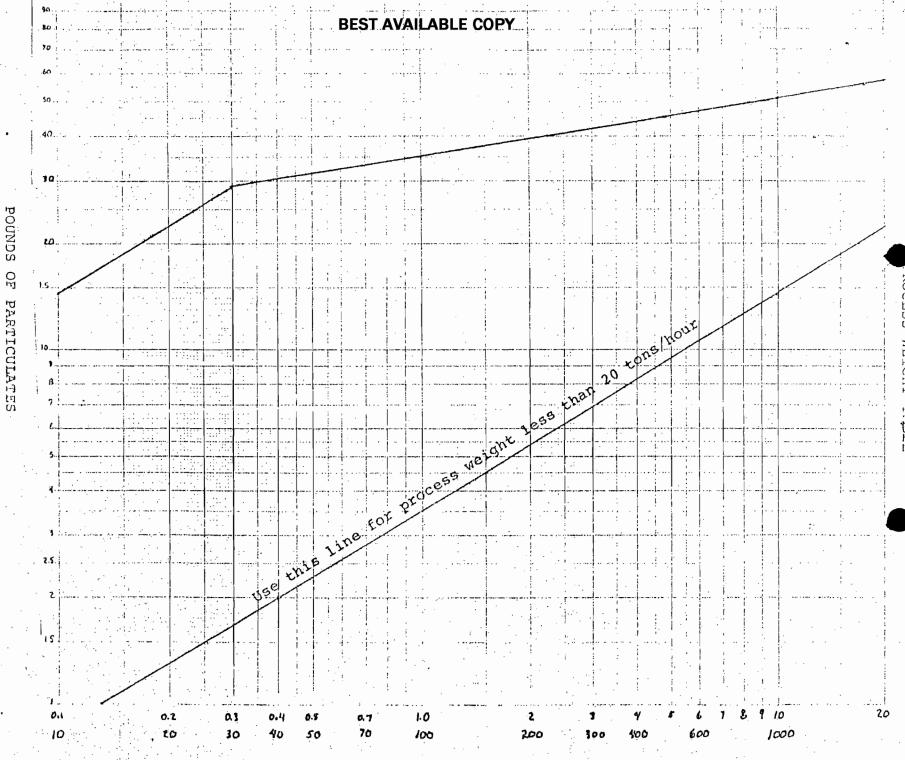
JLT

FOR AIR POLLUTION SOURCES

Permit No.: A052-3120 Date: Oct.31,1975

(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 One Year 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 () 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.
- (x) 10. Submit visible emission results within 30 days of permit.



PROCESS WEIGHT TONS/HOUR

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

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

TO: P. David Puchaty

THRU: Dan Williams

FROM: 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.

MEMORANDUM

TO:

FILE

THROUGH:

BILL THOMAS, P.E.

THROUGH:

HARRY KERNS, P.E.

FROM:

GEORGE RICHARDSON

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 Prestion Lewis as representive of the true operation of the peakers.

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

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

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

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

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



October 5, 1993

Mr. George Richardson Southwest District Florida Department of Environmental Regulation 3804 Coconut Palm Tampa, FL 33619 D.E.P.

OCT 06 1993

SOUTHWEST DISTRICT

Dear Mr. Richardson:

Re: Higgins Peaking Unit 1 (Permit No. A052-216420) Revised Operation Permit

As we discussed recently over the telephone, Florida Power Corporation (FPC) requests a change in the maximum load rating which is given in the draft permit referenced above. The maximum load given is 33.8 MW, corresponding to the maximum allowable heat input of 566 MMBtu/hour. According to the heat input vs. ambient temperature curve which FPC submitted for this unit, a heat input of 566 MMBtu/hour occurs at peak load at approximately 46 °F. I have attached a graph which describes the unit's load vs. ambient temperature. At 46 °F the corresponding maximum load is approximately 37 MW.

FPC requests that the maximum load given in the source description in the revised operation permit be changed to 37 MW. Since Peaking Units 1 and 2 are identical, FPC also requests this change for Unit 2. This change does not affect air pollutant emissions from these units, because emissions are determined by fuel use/heat input. It is only a clarification of the electic generating capability of the units. It is FPC's understanding that compliance will be based on the heat input vs. ambient temperature curves, as stated in Specific Condition 5.

Thank you for your consideration of this request. Please feel free to contact me at (813) 866-4344 if you have any questions.

Sincerely,

J. Michael Kennedy

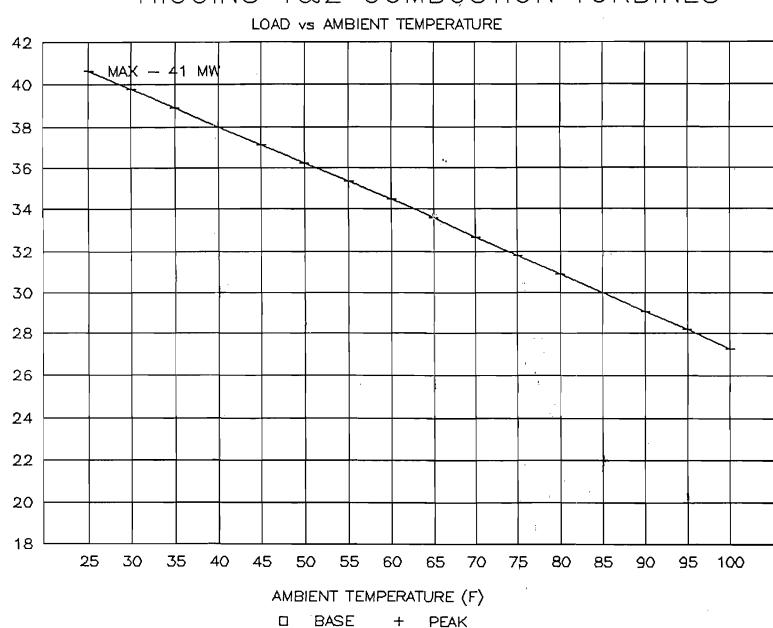
Senior Environmental Specialist

J. Michael James

cc: Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

HIGGINS 1&2 COMBUSTION TURBINES



LOAD (MW)

State of Florida Department of Environmental Regulation

District Routing Slip

Norge Richard Dm Date: 818-

	Pensacola	Northwest District	
	Panama City	Northwest District Branch Office	
	Tallahassee	Northwest District Branch Office	
	Apalachicola	Northwest District Satellite Office	
$\overline{\ \ }$	Tampa	Southwest District	
	Punta Gorda	Southwest District Branch Office	
•	Bartow	Southwest District Satellite Office	
	Orlando	Central District	
	Meibourne	Central District Satellite Office	
	Jacksonville	Northeast District	
	Gainesville	Northeast District Branch Office	
	Fort Myers	South District	
	Marathon	South District Branch Office	
	West Paim Beach	Southeast District	
	Port St. Lucie	Southeast District Branch Office	
	ly Optional Due	Reply Required Info	Only [

Comments:

D.E.R.

AUG 2 0 1993 SOUTHWEST DISTRICT **TAMPA**

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FLORIDA POWER CORP. (HIGGINS PEAKING UNITS 1, 2, 3 & 4)

Petitioner,

vs.

OGC CASE NOS. 92-2276

92-2277

92-2278

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION,

Respondent.

92-2279

ORDER GRANTING SIXTH REQUEST FOR EXTENSION OF TIME TO FILE PETITION FOR HEARING

This cause has come before the Florida Department of Environmental Protection (Department) on receipt of a request made by Petitioner Florida Power Corp., under Florida Administrative Code rule 17-103.070, to grant an extension of time to file a petition for an administrative hearing on Application Nos. A052-216420, A052-216421, A052-215422 and A052-216423. See Exhibit 1 attached.

Counsel for Petitioner has discussed this request with counsel for Respondent State of Florida Department of Environmental Protection, which has no objection to it. Therefore,

IT IS ORDERED:

The request for an extension of time to file a petition for administrative proceeding is granted. Petitioner shall have until October 29, 1993, to file a petition in this matter. Filing shall be complete upon receipt by the Office of General Counsel, Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DONE AND ORDERED on this 1993 in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

KENNETH J. PLANTE General Counsel

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

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:

W. Jeffery Pardue, Manager Environmental Programs Florida Power Corp. 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, FL 33733 on this day of August 1993.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

W. DOUGIAS BEASON

Assistant General Counsel

2600 Blair Stone Road

Tallahassee, FL 32399-2400 Telephone: (904) 488-9730



By Facsimile

July 30, 1993

Mr. Doug Beason, Esq.
Office of General Counsel
Florida Department of Environmental Protection
2600 Blairstone Road
Tallahassee, FL 32399-2400

Dear Mr. Beason:

Re: Higgins Peaking Units Renewal Permits

(Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Subsequently, in accordance with Rule 17-103.070, FPC has obtained extensions of the time in which to file a petition for an administrative hearing which expire on July 30, 1993. FDEP and FPC are continuing discussions regarding proposed changes to the permits. Because additional time is needed to complete the revisions, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including October 29, 1993. Mr. George Richardson of FDEP has given his concurrence with this request.

Dept. of Environmental Reg. Office of General Counsel

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, Manager

Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.



BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

DEPT. OF ENVIRONMENTAL MGMT. AIR QUALITY DIVISION 300 S. GARDEN AVE. CLEARWATER, FL 34616

D.E.R.

JUL 27 1993

SOUTHWEST DISTRICT TAMPA

COMMISSIONERS

CHARLES E. RAINEY - CHAIRMAN BRUCE TYNDALL - VICE CHAIRMAN SALLIE PARKS STEVE SEIBERT BARBARA SHEEN TODD

July 23, 1993

Mr. George Richardson Department of Environmental Protection 3804 Coconut Palm Drive Tampa, Florida 33619-8318

RE: Florida Power, Higgins Peaking Unit No. 1,

Permit No. A052-216420

Mr. Richardson:

This office has reviewed Florida Power's letter, dated 7/20/93, requesting that the draft permit be amended. The issue relates to the facility's contention that the power curve, included as part of the permit, represents the actual operation of the unit. This curve shows the peaking unit is capable of approximately 0.607 MMBtu/hour at 250 F. Specific Condition No. 7 limits the peaking unit to 0.57 MMBtu/hour and 96 BBL/hour of No. 2 fuel oil. These limits were contained in Florida Power's original permit application and have been included in past permits.

The emission factors for these units are based on the amount of fuel burned. If the peaking unit operates at 0.607 MMBtu/hour, more than the 96 BBL/hour of fuel oil would be burned. The burning of additional fuel will result in increased emissions.

Florida Power cites 17-212.400 to support it's contention that this change is not a significant one under the regulation. deals with PSD, and there has been no contention on DEP's part that this would be a modification under PSD rules. Under 17-210.300, Permits Required, the increase in fuel oil, resulting in increased emissions, would be considered a modification, and therefore, would require modification permit.

If Florida Power is able to demonstrate that operating the peaking unit at a higher Btu output, will not increase emissions, then a modification would not be necessary.

If you have any questions, please call me at (813) 464-4422 (Suncom 570-4422).

Sincerely,

Gary Robbins, Environmental Program Manager

Air Quality Division

cc: RF, PF

AQC.FP_P6420



D.E.R.

JUL 2.2 1993

SOUTHWEST DISTRICT

July 20, 1993

Mr. George Richardson Southwest District Florida Department of Environmental Regulation 3804 Coconut Palm Tampa, FL 33619

Dear Mr. Richardson:

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

Revised Operation Permit - Second Draft

On June 14, 1993 Florida Power Corporation (FPC) received the above-referenced draft revised operating permit renewal by fax. As we discussed over the telephone, there is one remaining issue regarding the permit. Although the submitted heat input vs. ambient temperature curves were incorporated into the permit as requested, the maximum process parameters were listed as they are in the existing operation permit. As discussed in my May 24, 1993 comment letter, FPC requests that this portion of the permit be changed. The following paragraphs provide further discussion of this request.

As previously discussed, the performance of combustion turbines (CTs) changes with ambient temperature. By convention, CT capacities are given in terms of a unit's capability at a temperature of 59°F for convenience. The unit's overall performance is much more accurately described by its heat input vs. temperature curve, however. The highest performance occurs at the lowest ambient temperatures.

In the specific case of the Higgins peaking units, no physical changes or changes in the method of operation have occurred. The units have always had the capability to operate in the ranges given by the heat input curves. The curves were not submitted in the original permit application in 1977; only the capability at the reference temperature was provided at that time.

Regarding the issue of whether the incorporation of the entire curve necessitates a permit review, DEP Regulation 17-212.400 requires review if the change results in a significant net emissions increase. A significant net emissions increase is defined to occur when "the sum of all the contemporaneous creditable increases and decreases in the actual emissions of the facility, including the increase in emissions of the modification itself and any increases and decreases in quantifiable fugitive emissions, is greater than zero." Since no physical changes or changes in the method of operation of the units have occurred, the actual emissions will also be unchanged. Therefore, it is FPC's opinion that no permit review is necessary.

Mr. George Richardson July 20, 1993 Page Two

FPC requests that the language changes suggested in the May 24, 1993 letter regarding the facility description, Specific Condition 7, and Specific Condition 10 be incorporated into the revised operation permits for the Higgins peaking units. The permit will reflect the actual operation of the units more accurately, and the DEP, by using the curves throughout the ambient temperature range, will possess an effective enforcement method.

Please feel free to contact J. Michael Kennedy at (813) 866-4344 if you have any questions.

Sincerely,

Patricia A. Blizzard, Director

Environmental Services Department

cc: Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

/mrb

BEST AVAILABLE COPY



Florida Departmen

Iseson Littles Governor

Post-It brand fax transmitta no George Richardson	
neovae Richardson	Flike Jouredy
Co. DEP	Go Florida Power
Dept.	Phone #
Fax #(8/3) 744-6083	Fax #

PERMITTÉE:

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

PERMIT/CERTIFICATION

Permit No: A052-216420 County: Pinellas Expiration Data: 11-10-97 Project: Higgins Peaking Unit No. 1

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 297 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, at the check hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of Higgins Peaking Unit No. 1. This unit is fired with natural gas or new No. 2 fuel oil. This unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at 33.8 MW/hour having a maximum heat input rate of 566 MMBTU/hour. The maximum fuel usage rate is 0.57 MMCF/hour of natural gas or 96.0 BBL/hour of new No. 2 fuel oil. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Booth Road, Oldsmar, Pinellas County.

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

Replaces Permit No.: A052-137555

PERMITTEE: Florida Power Corporation Permit No.: A052-216420 Project: Higgins Peaking Unit No. 1

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Visible emissions from Higgins Peaking Unit No. 1 shall not be equal to or greater than 20% opacity (Rule 17-296.310(2)(a), F.A.C.).
- Test Higgins Peaking Unit No. 1 for visible emissions annually within 60 days prior to January 7. The visible emissions compliance test could be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VB test shall be required and conducted during the 5 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rule 17-297.340, F.A.C.).
- 4. Compliance with the visible emission limitation of Specific Condition No. 2 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
- 5. Testing of emissions shall be conducted under the conditions as outlined by Florida Power Corporation in the letter submitted to the Department dated March 29, 1993. The submitted graph for Peaking Unit No. 1 is made a part of this permit. A copy of the submitted graph noting the maximum heat input versus ambient temperature during the compliance test shall be included in the compliance test report (Rule 17-4.070(3), F.A.C.).
- 6. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).



PERMITTEE: Floride Power Corporation Permit No.: A052-216420 Project: Higgins Peaking Unit No. 1

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

A. Process Parameters:

- 1. Maximum Load Rate: 33.8 MW/hour
- 2. Maximum Heat Input Rate: 566 MMBTU/hour
- 3. Maximum Fuel Usaga: 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
- S. The BTU heating value, sulfur content (t 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 from this peaking unit, upon which this permit is issued:

	pounds/hour	tons/year
Particulate	34.53	151.22
Carbon Monoxide	62.26	272.70
Sulfur Dioxide	2.82	12.36 f.
Nitrogen Oxides	395.07	1,730.40
VOC	23.94	104.86

11. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Rules 17-200 through 17-299, or any other requirements under federal, state or local law (Rule 17-210,300, F.A.C.).

PERMITTEE: Florida Power Corporation Permit No.: A052-216420 Project: Higgins Peaking Unit No. 1

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

	No. 2 Fuel Oil Pounds/MMBTU	Natural Gas Pounds/MMBTU
Particulate	0.061	0.0419
Carbon Monoxide	0.048	0.11
Nitrogen Oxides	0.698	0.44
	No. 2 Puel Oil Pounds/10' Gallons	Natural Gas Pounds/10° ft3
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, & by weight

Emission factors for FM, 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 Finellas County Department of Environmental Management, Air Quality Division, at least 60 days prior to the expiration date of this permit (Rule 17-4.090(1), F.A.C.).

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

DEPT. OF ENVIRONMENTAL MGMT. AIR QUALITY DIVISION 300 S. GARDEN AVE. DE PEARWATER FL 34616

COMMISSIONERS

CHARLES E. RAINEY - CHAIRMAN BRUCE TYNDALL - VICE CHAIRMAN SALLIE PARKS STEVE SEIBERT BARBARA SHEEN TODD June 3, 1993

JUN 0 7 1993

SOUTHWEST DISTRICT TAMPA

Mr. George Richardson Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, Florida 33619-8318

RE: Florida Power, Higgins Peaking Unit Nos. 1 - 4

Mr. Richardson:

This office has reviewed Florida Power's request to change the conditions of the recently issued renewal permit. Pinellas County recommends the following:

Process Description:

Change to - For the operation of Higgins Peaking Unit No. 1. This unit is fired with natural gas or new No. 2 fuel oil. unit is a gas turbine unit consisting of two Pratt & Whitney jet engines. This unit is rated at a maximum of 33.8 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. The unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input vs. ambient temperature.

Specific Condition No. 7:

Leave as is, except modify A.3.to read:

3. Maximum Fuel Usage: 0.57MMCF/hour of Natural Gas 96 BBL/hour of new No. 2 fuel oil with a maximum sulfur content of 0.5% by weight

Specific Condition No. 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) 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. Records must be kept for a minimum of two years.

Specific Condition No. 10:

Based on the original permit application, dated 9/8/77, and AP 42 emission factors, the following are the maximum potential emission rates from this peaking unit, upon which this permit is issued:

•	Pounds/hour	<u>Tons/year</u>
Particulate	34.53	151.2
Carbon Monoxide	62.26	272.7
Sulfur Dioxide	2.82	12.4
Nitrogen Oxides	395.07	1,730.4
VOC	23.94	104.9

Specific Condition No. 12:

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

	No. 2 Fuel Oil Pounds/MMBtu_	Natural Gas Pounds/MMBtu
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
	Pounds/10 ³ Gallons	<u>Pounds/10⁶ ft³</u>
Sulfur Dioxide	140s	940s
VOC	5.57	42

s denotes sulfur content, % by weight

The permits for Peakers Nos. 2-4 should be modified similarly. Copies of emissions tables for each peaker are attached. If you have any questions, please call me at (813) 464-4422 (Suncom 570-4422).

Sincerely,

Gary Robbins, Environmental Program Manager

Air Quality Division

cc: RF

AQC.316



D.E.R.

JUN 0 1 1993

SOUTHWEST DISTRICT

TAMPA

By Facsimile

May 28, 1993

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

Dear Mr. Beason:

Re: Higgins Peaking Units Renewal Permits

(Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Subsequently, in accordance with Rule 17-103.070, FPC has obtained extensions of the time in which to file a petition for an administrative hearing which expire on May 31, 1993. FDER is currently preparing revised permits based on changes to which FPC and FDER have mutually agreed. Because additional time is needed to complete the revisions, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including July 30, 1993. Mr. George Richardson of FDER has given his concurrence with this request.

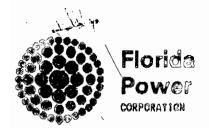
Thank you for your consideration of this request. Please contact Mr. Mike Kennedy of my staff at (813) 866-4344 if you have any questions.

Sincerely,

W. Jeffrey Pardue, Manager Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County Mr. Albert W. Morneault, P.E.



3201 Thirty-Fourth Street South • P. O. Box 14042 • St. Petersburg, Florida 33733

ENVIRONMENTAL SERVICES DEPARTMENT

TELECOPIER NUMBER (813) 866-4926

TO:	George Richardson	9
from:	Mike Kennedy	
date: _	5/25/93	
Telecopi	NUMBER: (8/3) 744 -6083	,
Confirm	TION NUMBER:	
number (Pages to follow:	
PLEASE N OF THIS F		
remarks	Feel free to call me at (813) 86%-434;	L
	if you have any questions. Please let me	
	know if you think we will need another	,
	extension.	

BEST AVAILABLE COPY



May 24, 1993

Mr. George Richardson Southwest District Florida Department of Environmental Regulation 3804 Coconut Palm Tampa, FL 33619

Dear Mr. Richardson:

Re: Higgins Peaking Unit 1 (Permit No. A052-216420) Draft Revised Operation Permit

On May 18, 1993 Florida Power Corporation (FPC) received the above-referenced draft revised operating permit renewal. FPC has reviewed the permit, and offers the following comments for your consideration.

Facility Description

... This unit is rated at 33.8 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.

Since the heat input vs. ambient temperature curve which FPC submitted for this unit has been incorporated into the permit in Specific Condition 5, this description of the unit should be updated. The MW output of a combustion turbine is a poor indicator of its emissions and should not be used to indicate operating limits. This is the reason FPC submitted the heat input curve. This curve describes the unit's performance over a wide range of ambient temperatures. FPC recommends that the following language could be used to describe the unit's capability:

The attached graph of heat input vs. ambient temperature describes the unit's maximum performance capability. A representative point on the curve is [531 MMBtu/hour for Units 1 and 2, 575 MMBtu/hour for Units 3 and 4] at a reference temperature of 59 F.

Specific Condition 7.

Riggins Peoling Unis No. 1 is permitted to operate at the following parameters:

Mr. George Richardson May 24, 1993 Page Two

BEST AVAILABLE COPY

A. Process Parameters:

- 1. Maximum Load Rate: 33.8 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

As with the facility description discussed on the previous page, the incorporation of the heat input curve necessitates a language change for this condition. The process parameters listed in the current condition are representative of only one ambient temperature. Since the curve describes the unit's maximum capability over a range of temperatures, it is a more accurate representation of its limits. FPC suggests that the condition's language be changed to the following:

For a given ambient temperature, Higgins Peaking Unit No. 1 is limited to the corresponding heat input given by the attached graph of heat input vs. ambient temperature.

If a listing of representative operating parameters is desired, then the 59° F. (a common reference temperature) case discussed above could be given as an example.

Specific Condition 8.

This condition requires that a single fuel sample be taken in order to ensure that the fuel vendors are supplying accurate information and for use in the annual operating report. FPC periodically takes such samples as a check on the vendor's analysis, so more than one FPC fuel analysis will be available for the annual operating report. Records of these analyses will be kept as specified in the permit.

Specific Conditions 10 and 12

Specific Condition 12 gives the AP-42 emission factors which are to be used for the calculation of air pollutant emissions. FPC has received a copy (please see attached), from DER's Central District, of updated AP-42 emission factors which were published in October 1992. These factors are given in terms of lbs./MMBtu rather than lbs./10³ gallons of fuel burned. FPC requests that these revised factors be used in the permit.

Specific condition 10 utilizes the emission factors to calculate the maximum potential emission rates in lbs./hour and tons/year. Again, the graph of heat input vs. ambient temperature incorporated into the permit changes this condition somewhat. FPC suggests that the 59° F case be used as a representative example of the maximum potential emission rates. The capacity of 531 MMBtu/hour at this temperature would be used with the revised emission factors inscussed above. The language in Specific Condition 10 would then be changed to the following:

Ç,

Mr. George Richardson

May 24, 1993 Page Three

At an ambient temperature of 59° F, the representative potential emission rates are as follows:

	pounds/hour	tons/year
Particulate (total)	22.25	97.46
Carbon Monoxide	<i>58.41</i>	255.84
Sulfur Dioxide	fuel analysis	fuel analysis
Nitrogen Oxides	233.64	1023.34
Organic Compounds	12.74	55.80

The permits for Units 2, 3, and 4 would be identical except for appropriate differences in capacity and corresponding emissions.

FPC appreciates your willingness to work on making these important changes to the Higgins peaker permits. With the changes, the permits will much more accurately reflect the way in which these units operate. Please contact me at (813) 866-4344 if you have any questions.

Sincerely,

J. Michael Kennedy

Senior Environmental Specialist

mila Koney

ce: Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

3.1 STATIONARY GAS TURBINES FOR ELECTRICITY GENERATION

3.1.1 General

Stationary gas turbines are applied in electric power generators, in gas pipeline pump and compressor drives, and in various process industries. Gas turbines (greater than 3 MW(c)) are used in electrical generation for continuous, peaking, or standby power. The primary fuels used are natural gas and distillate (No. 2) fuel oil, although residual fuel oil is used in a few applications.

3.1.2 Emissions

Emission control technologies for gas turbines have advanced to a point where all new and most existing units are complying with various levels of specified emission limits. For these sources, the emission factors become an operational specification rather than a parameter to be quantified by testing. This section treats uncontrolled (i.e., baseline) emissions and controlled emissions with specific control technologies.

The emission factors presented are for simple cycle gas turbines. These factors also apply to cogeneration/combined cycle gas turbines. In general, if the heat recovery steam generator (HRSG) is not supplementary fired, the simple cycle input specific emission factors (lbm/MMStu) will apply to cogeneration/combined cycle systems. The output specific emissions (g/hp-hr) will decrease according to the ratio of simple cycle to combined cycle power output. If the HRSG is supplementary fired, the emissions and fuel usage must be considered to estimate stack emissions. Nitrogen Oxide (NO_n) emissions from regenerative cycle turbines (which account for only a small percentage of turbines in use) are greater than emissions from simple cycle turbines because of the increased combustion air temperature entering the turbine. The carbon monoxide (CO) and hydrocarbon (HC) emissions may be lower with the regenerative system for a comparable design. More power is produced from the same energy input, so the input specific emissions factor will be affected by changes in emissions, while output specific emissions will reflect the increased power output.

Water/steam injection is the most prevalent NOx control for cogeneration/combined cycle gas turbines. The water or steam is injected with the air and fuel into the turbine combustion can in order to lower the peak temperatures which, in turn, decreases the thermal NO, produced. The lower average temperature within the combustor can may produce higher levels of CO and MC as a result of incomplete combustion.

Selective estalytic reduction (SCR) is a post-combustion control which selectively reduces NO_2 by reaction of ammonia and NO on a catalytic surface to form N_2 and H_2O . Although SCR systems can be used alone, all existing applications of SCR have been used in conjunction with water/steam injection controls. For optimum SCR operation, the flue gas must be within a temperature range of 60C-800°F with the precise limits dependant on the catalyst. Some SCR systems also utilize a CO catalyst to give simultaneous catalytic CO/NO₂ control.

Advanced combustor can designs are currently being phased into production turbines. These dry techniques decrease turbine emissions by modifying the combustion mixing, air staging, and flame stabilization to allow operation at a much leaner air/fuel ratio relative to normal operation. Operating at leaner conditions will lower peak temperatures within the primary flame zone of the combustor. The lower temperatures may also increase CO and HC emissions.

With the proliferation and advancement of NO, control technologies for gas turbines during the past 15 years, the emission factors for the installed gas turbine population are quite different than uncontrolled turbines. However, uncontrolled turbine emissions have not changed significantly. Therefore a careful review of specific turbine details should be performed before applying uncontrolled emission factors. Today most gas turbines are controlled to meet local, state, and/or federal regulations.

The average gaseous emission factors for uncontrolled gas turbines (firing natural gas and fuel oil) are presented in Tables 3.1-1 and 3.1-2. There is some variation in emissions over the population of large uncontrolled gas turbines because of the diversity of engine designs and models. Tables 3.1-3 and 3.1-4 present emission factors for gas turbines controlled for NO_x using water injection, steam injection or SCR. Tables 3.1-5 and 3.1-6 present emission factors for large distillate oil- fired turbines controlled for NO_x using water injection.

One rurbines firing distillate or residual oil may emit trace metals carried over from the metals content of the fuel. If the fuel analysis is known, the metals content of the fuel should be used for flue gas emission factors assuming all metals pass through the turbine. If the fuel analysis is not known, Table 3.1-7 provides order of magnitude levels for turbines fired with distillate oil.

TABLE 3.1-1. (ENGLISH UNITS)

EMISSION FACTORS FOR LARGE UNCONTROLLED GAS TURBINES¹⁻²

Poliuani	Emission Factor Rating	Natural Gas (SCC-2-01-002-01)		Fuel Oil (i.e. Distillate) (SCC-2-(11-001-01)		
•		(bonet ontant) [Gunue\npb],	[[b/MMB(u] (fuel input)	(bower oniba) (Rumayib-pr)	(lb/MMB(u) (tuqni lsut)	
NO.	С	1.6	.44	2.54	.698	
co	D	.39	.11.	.174	.048	
CO,	В	407 .	112	596	164	
TOC (es methane)	D	.087	.024	.062	.017	
SOx (as SO ₂)	8	d	ď	7	٥	
PM (solids)	E	.070	.0193	.138	,038	
PM (condensables)	E	.082	.0226	.084	£\$0.	
PM Sizing % < .03 microns	Ď	۸,	15%	,	16%	
< .10 microns	D	,	40%		48%	
< .15 microns	D		63%		72%	
< .20 microns	D		78%		85%	
< .25 microns	Þ	0	. 89%	•	93%	
« I micron	D		100%		iona 🥞	

^{6. &}quot;D" and "E" rated emission factors are due to limited data and/or a lack of decrementation of test results. "D" and "E" rated emission factors may not be suitable for specific facilities or populations and should be used with care.

b. Calculated from 15/MMBtu assuming an average heat rate of 8,000 Btu/hp-hr (x 3.632).

d. All sulfus in the fuel is convened to SO2.

c. Based on 100 percent conversion of the fuel eartion to CO₂. CO₂llb/MMBte| = 3.67°C/E. where C = curbon content of fuel by weight. 7, and E = energy content of fuel. 2023 MMBte/b. The uncontrolled CO₂ emission factors are also applicable to controlled gas terbines.

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TABLE 3.1-2. (METRIC UNITS)
EMISSION FACTORS FOR LARGE UNCONTROLLED GAS TURBINES'*

Uncontrolled Emission Factors	Emission factor Rating	Natural Gas (SCC-2-01-(K)2-()1)		Fuel Oil (i.e. Distillate) (SCC-2-()[-(X)-()])	
		(power output)	(lughl laul)	(power output)	(l'ugl input)
NO,	С	2.15	190	3,41	3()()
co	. D	.52 .	46	.233	20.6
CO ₂ °	В	546	48160	799	70520
TOC (as methane)	D	,117	10.32	CHO).	7.31
SOx (us SO ₂)	8	•	4	•	
PM (solids)	£	.094	8.30	.185	16,3
PM (conumisables)	E	.11	9.72	.113	9.89
PM Sizing % < .05 microns	D		15%	•	16%
< .10 microns	D.		40%		48%
< .15 microns	D,		63%		72%
< .20 microns	D		78%		85%
< .25 microns	D		89 %		93%
< 1 micron	D	·	100%		10096

^{2. &}quot;D" and "B" rated emission factors are due to limited data and/or a tack of documentation of test results. "D," and "B" rated emission factors may not be suitable for specific facilities or populations and should be used with care.

Calculated from ng/l assuming an average heat rate of 11,318 KJ/KW-hr.

Eased on 100 percent conversion of the fuel curbon to CO₃. CO₃1b/MMBtu₁ = 3.67*C/E, where C = ratio of curbon in the fuel by weight, and E = energy content of fuel. MMBtu/th.

The uncontrolled CO₃ emission factors are also applicable to controlled gas turbines.

i. All sulfur in the fuel is assumed to be converted to SO2.

State of Florida Department of Environmental Regulation

District Routing Slip
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Panama City

Northwest District

Panama City

Northwest District Branch Office

Tallahassee

Northwest District Branch Office

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Port St. Lucie

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From:

Tel.: 278-9730

10-31-90

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

FLORIDA POWER CORP. (HIGGINS PEAKING UNITS 1, 2, 3 & 4)

Petitioner,

vs.

OGC CASE NOS. 92-2276

92-2277

92-2278 92-2279

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION,

Respondent.

ORDER GRANTING FOURTH REQUEST FOR EXTENSION OF TIME TO FILE PETITION FOR HEARING

This cause has come before the Florida Department of Environmental Regulation (Department) on receipt of a request made by Petitioner Florida Power Corp., under Florida Administrative Code rule 17-103.070, to grant an extension of time to file a petition for an administrative hearing on Application Nos. A052-216420, A052-216421, A052-215422 and A052-216423. See Exhibit 1 attached.

Counsel for Petitioner has discussed this request with counsel for Respondent State of Florida Department of Environmental Regulation, which has no objection to it. Therefore,

IT IS ORDERED:

The request for an extension of time to file a petition for administrative proceeding is granted. Petitioner shall have until May 31, 1993, to file a petition in this matter. Filing shall be complete upon receipt by the Office of General Counsel, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DONE AND ORDERED on this _ day of May 1993 in Tallahassee, Florida.

> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DANIEL H. THOMPSON General Counsel

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

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:

W. Jeffery Pardue, Manager Environmental Programs Florida Power Corp. 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, FL 33733 \setminus day of May 1993.

> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

2600 Blair Stone Road Tallahassee, FL 32399-2400 Telephone: (904) 488-9730



DECEIVED

By Facsimile

April 29, 1993

Dept. of Environmental Reg. Office of General Coursel

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

Dear Mr. Beason:

Re: Higgins Peaking Units Renewal Permits

(Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Subsequently, in accordance with Rule 17-103.070, FPC has obtained extensions of the time in which to file a petition for an administrative hearing which expire on April 29, 1993. FDER is currently preparing revised permits based on changes to which FPC and FDER have mutually agreed. Because additional time is needed to complete the revisions, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including May 31, 1993. Mr. George Richardson of FDER has been contacted regarding this request and has given his concurrence.

Thank you for your consideration of this request. Please contact the Miles Research of my that at (813) 866-4344 if you have any questions

Sincerely,

W. Jeffrey Pardue, Manager

Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

GENERAL OFFICE: 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, Florida 33733 (\$13) 866-6161

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By Facsimile

April 29, 1993

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

D.E.R.

MAY 0 3 1993

SOUTHWEST DISTRICT TAMPA

Dear Mr. Beason:

Re: Higgins Peaking Units Renewal Permits

(Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Subsequently, in accordance with Rule 17-103.070, FPC has obtained extensions of the time in which to file a petition for an administrative hearing which expire on April 29, 1993. FDER is currently preparing revised permits based on changes to which FPC and FDER have mutually agreed. Because additional time is needed to complete the revisions, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including May 31, 1993. Mr. George Richardson 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, Manager Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.



David L. Miller Senior Vice President Corporate Services

February 9, 1993

TO WHOM IT MAY CONCERN

Subject: Letter of Authorization

Please be advised that Patricia K. Blizzard, Director, Environmental Services Department, Mr. W. W. Vierday, Manager of Environmental Programs, and Mr. W. Jeffrey Pardue, Manager of Environmental Programs, are authorized to represent Florida Power Corporation in matters relating to necessary permits and reporting documentation required from regulatory authorities in the areas of air, water, power plant site certifications and transmission line certifications, or hazardous and solid materials issues.

Sincerely

David L. Miller

DLM:mlp



BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

DEPT. OF ENVIRONMENTAL MGMT. AIR QUALITY DIVISION 300 S. GARDEN AVE. CLEARWATER, FL 34616

DER

APR 2 8 1993

SOUTHWEST DISTRICT TAMPA.

COMMISSIONERS

CHARLES E. RAINEY - CHAIRMAN BRUCE TYNDALL - VICE CHAIRMAN SALLIE PARKS STEVE SEIBERT BARBARA SHEEN TODD .

April 23, 1993

Mr. George Richardson Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, Fla. 33619-8318

Florida Power Corporation; Higgins Peaking Units

Mr. Richardson:

This office has reviewed the request to modify the three conditions of Higgins Peaking Unit Nos. 1 -4, permit nos. A052-216420, 216421, 216422, and 216423, respectively. comments are as follows:

Specific Condition No. 3

Florida Power is correct, Rule 17-297.340(1)(h) does exempt combustion turbines from VE tests, if operated less than 400 hours/year This source would be required to test at a minimum of 5 years for the renewal of the permit.

<u>Specific Condition No. 5</u>

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I contacted Preston Lewis of DARM concerning this issue for state-wide consistency. He stated that he felt this was an acceptable request and that testing under the conditions outlined by Florida Power should be representative of the peakers true operation.

Specific Condition No. 8

I also spoke to Preston Lewis regarding the fuel oil sampling. He was involved in the DeBary turbine permit. He recommends that we grant this request with an addition. To ensure that the vendors are properly analyzing the fuel oil, the condition should read:

The BTU heating value, sulfur content (% by weight), API gravity, and density of the fuel, being fired in the combustion turbine, shall be based on a weighted 12 month rolling average from fuel delivery receipts. To ensure the vendors are supplying accurate information, Florida Power shall perform a separate annual fuel analysis. A sample from the fuel tank shall taken on the same day as the visible emissions test, or if waived, between the dates of December 1, and February 28, and be analyzed. This data is to be used to calculate the SO₂ emissions for the Annual Operating Report. Records must be kept for a minimum of two years.

If you have any questions contact this office at Suncom 570-4422.

Sincerely,

Gary Robbins, Environmental Program Manager

Air Quality Division

cc: PF, RF

AQC.303



March 29, 1993

D.E.R.

MAR 3 1 1993

SOUTHWEST DISTRICT TAMPA

Mr. George Richardson Southwest District Florida Department of Environmental Regulation 3804 Coconut Palm Tampa, FL 33619

Dear Mr. Richardson:

Re: Higgins Peaking Units 1, 2, 3, 4 (Permit Nos. A052-216420, -216421, -216422, -216423)

Permit Renewals

On November 17, 1992 Florida Power Corporation (FPC) received the above-referenced operating permit renewals. FPC obtained an extension of the time in which to file for an administrative hearing, up to and including April 30, 1993. FPC has reviewed the permits, and offers the following comments for your consideration. The comments are given by condition number and apply to all four permits.

Specific Condition 3.

Test Higgins Peaking Unit No. [] for visible emissions at intervals of 12 months from the date of January 12, 1992 if the unit is operated more than 5 days (120 hours) on fuel oil the preceding 12 months.

Florida DER Rule 17-2.700, Sections (2)(a)3. and (2)(a)5., contain exemptions from emission testing for fuel burning sources which operate less than 400 hours in a year. In addition, other FPC peaking unit permits use 400 hours as the emission testing exemption threshold. FPC requests that the language in the Higgins peaking units permits be changed from a threshold of 120 hours to 400 hours of operation in a year.

Specific Condition 5.

Testing of emissions must be accomplished within <u>90-100%</u> of the maximum permitted rate of 33.8 MW/hour for Units 1 and 2 and 42.9 MW/hour for Units 3 and 4.

Unlike steam units, combustion turbine performance is directly affected by ambient temperature conditions. As ambient temperature decreases, the increased density of the air increases the MW output of the turbine.

Mr. George Richardson March 29, 1993 Page Two

Depending on the temperature during a given visible emissions test, it is possible to test at less than 90% or greater than 100% of the maximum permitted rate currently stated in the permit. In addition, the MW output of a combustion turbine is a poor indicator of its air pollutant emissions. The heat input is more directly related to emissions, making it a more appropriate surrogate measure. I have attached a graph of maximum heat input versus ambient temperature for each of the Higgins peaking units. These curves were derived from performance data obtained for the units while operating at peak load. FPC requests that the curve for each peaking unit be incorporated into its operation permit.

The incorporation and use of these curves will take into account the units' variable performance with ambient temperature and provide agency personnel with a reliable enforcement tool. Each unit would be in compliance with its permit as long as its heat input is under the curve at the appropriate ambient temperature.

Specific Condition 8.

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

Because of the limited operation of the peaking units, fuel oil deliveries occur approximately on a quarterly basis. Since fuel is received infrequently and changes little from one delivery to another, a daily sample is not necessary to effectively track the quality of the fuel. The construction permit for FPC's new DeBary combustion turbine units, issued October 21, 1991, contains the following language in Specific Condition 16:

Sulfur, nitrogen content and lower heating value of the fuel being fired in the combustion turbines shall be based on a weighted 12 month rolling average from fuel delivery receipts.

FPC requests that Specific Condition 8 be changed to allow fuel analysis based on fuel delivery receipts. FPC suggests the following language for the first sentence of the condition:

The new No. 2 fuel oil is to be monitored based on a weighted annual average of fuel delivery receipts.

The remainder of the condition would be unchanged. This will ensure effective tracking of the sulfur content and heating value of the fuel without being unnecessarily burdensome.

Thank you for your consideration of FPC's comments. Please contact me at (813) 866-4344 if you have any questions.

(813) 866-4926

Mr. George Richardson March 29, 1993 Page Three

Sincerely,

J. Michael Kennedy

Senior Environmental Specialist

cc: Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

State of Florida Department of Environmental Regulation

District Routing Slip

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	Pensacola	Northwest District			
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Tallahassee		Northwest District Branch Office			
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MAR 1 2 1993

Department of Environmental Regulation CCUTH WEST DISTRICT

From: Day

Beason

Tel.: 278-9730

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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION MAR

> Capariment of Environmental Regulation COUTH WEST DISTRICT

FLORIDA POWER CORP. (HIGGINS PEAKING UNITS 1, 2, 3 & 4)

Petitioner,

.. Vs.

OGC CASE NOS. 92-2276

92-2277

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION,

Respondent.

92-2278 92-2279

ORDER GRANTING REQUEST FOR EXTENSION OF TIME TO FILE PETITION FOR HEARING

This cause has come before the Florida Department of Environmental Regulation (Department) on receipt of a request made by Petitioner Florida Power Corp., under Florida Administrative Code rule 17-103.070, to grant an extension of time to file a petition for an administrative hearing on Application Nos. A052-216420, A052-216421, A052-215422 and A052-216423. See Exhibit 1 attached.

Counsel for Petitioner has discussed this request with counsel for Respondent State of Florida Department of Environmental Regulation, which has no objection to it. Therefore,

IT IS ORDERED:

The request for an extension of time to file a petition for administrative proceeding is granted. Petitioner shall have until April 30, 1993, to file a petition in this matter. Filing shall be complete upon receipt by the Office of General Counsel, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DONE AND ORDERED on this _ 9/L day of March 1993 in Tallahassee, Florida.

> STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DANIEL H. THOMPSON General Counsel

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

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:

W. Jeffery Pardue, Manager Environmental Programs Florida Power Corp. 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, FL 33733

on this day of March 1993.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

eneral Counsel

2600 Blair Stone Road Tallahassee, FL 32399-2400 Telephone: (904) 488-9730



February 22, 1993

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

Dept of Environmental Reg

Dear Mr. Beason:

Re: Higgins Peaking Units Renewal Permits (Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. Subsequently, in accordance with Rule 17-103.070, FPC has obtained two extensions of the time in which to file a petition for an administrative hearing, the second of which expires on March 1, 1993. FPC is preparing documentation to support information which FPC will request be incorporated into the permit conditions. Because this submittal is not yet complete, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including April 30, 1993. Mr. George Richardson 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, Manager Environmental Programs

cc: Mr. George Richardson, FDER
Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

Dave

State of Florida Department of Environmental Regulation

George

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Tallahassee	Northwest District Branch Office		
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Jacksonville	Northeast District		
Gainesville	Northeast District Branch Office		
Fort Myers	South District		
Marathon	South District Branch Office		
West Palm Beach	Southeast District		
Port St. Lucie	Southeast District Branch Office		
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D.E.R.

FEB 1 0 1993

SOUTHWEST DISTRICT TAMPA

From Doug Beason

Tel.: 276 913)

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

D.E.R.

FLORIDA POWER CORP. (HIGGINS PEAKING UNITS 1, 2, 3 & 4)

FEB 1 0 1993

Petitioner,

SOUTHWEST DISTRICT TAMPA

vs.

OGC CASE NOS. 92-2276

92-2277

92-2278 92-2279

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION,

Respondent.

ORDER GRANTING REQUEST FOR EXTENSION OF TIME TO FILE PETITION FOR HEARING

This cause has come before the Florida Department of Environmental Regulation (Department) on receipt of a request made by Petitioner Florida Power Corp., under Florida Administrative Code rule 17-103.070, to grant an extension of time to file a petition for an administrative hearing on Application Nos. A052-216420, A052-216421, A052-215422 and A052-216423. See Exhibit 1 attached.

Counsel for Petitioner has discussed this request with counsel for Respondent State of Florida Department of Environmental Regulation, which has no objection to it. Therefore,

IT IS ORDERED:

The request for an extension of time to file a petition for administrative proceeding is granted. Petitioner shall have until March 1, 1993, to file a petition in this matter. Filing shall be complete upon receipt by the Office of General Counsel, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DONE AND ORDERED on this _____ day of February 1993 in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DANIEL H. THOMPSON General Counsel

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

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:

W. Jeffery Pardue, Manager Environmental Programs Florida Power Corp. 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, FL 33733

on this $\frac{919}{1}$ day of February 1993.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

W. DOUGLAS BEASON

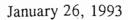
Assistant General Counsel

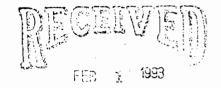
2600 Blair Stone Road Tallahassee, FL 32399-2400

Telephone: (904) 488-9730

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Dept. of Environmental Reg. Office of General Counsel

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

Dear Mr. Braswell:

Re: Higgins Peaking Units Renewal Permits (Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. On November 30, 1992, in accordance with Rule 17-103.070, FPC requested an extension of the time in which to file a petition for an administrative hearing, up to and including January 29, 1993. FPC is preparing documentation to support information which FPC will request be incorporated into the permit conditions. Because this submittal is not yet complete, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including March 1, 1993. Mr. George Richardson 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, Manager Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.

State of Florida Department of Environmental Regulation

District Routing Slip

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	Pensacola	Northwest District		
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	Bartow	Southwest District Satellite Office		
	Orlando	Central District		
Melbourne		Central District Satellite Office		
	Jacksonville	Northeast District		
	Gainesville	Northeast District Branch Office		
	Fort Myers	South District		
	Marathon	South District Branch Office		
	West Palm Beach	Southeast District		
	Port St. Lucie	Southeast District Branch Office		
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		JAN 2 5 1993		

SOUTHWEST DISTRICT TAMPA

From Doug Blason

Tel.: 278-9730

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

FLORIDA POWER CORP. (HIGGINS PEAKING UNITS 1, 2, 3 & 4)

Petitioner,

vs.

OGC CASE NOS. 92-2276

92-2277

92-2278 92-2279

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION,

Respondent.

ORDER GRANTING REQUEST FOR EXTENSION OF TIME TO FILE PETITION FOR HEARING

This cause has come before the Florida Department of Environmental Regulation (Department) on receipt of a request made by Petitioner Florida Power Corp., under Florida Administrative Code rule 17-103.070, to grant an extension of time to file a petition for an administrative hearing on Application Nos. A052-216420, A052-216421, A052-215422 and A052-216423. See Exhibit 1 attached.

Counsel for Petitioner has discussed this request with counsel for Respondent State of Florida Department of Environmental Regulation, which has no objection to it. Therefore,

IT IS ORDERED:

The request for an extension of time to file a petition for administrative proceeding is granted. Petitioner shall have until Jaunary 29, 1993, to file a petition in this matter. Filing shall be complete upon receipt by the Office of General Counsel, Department of Environmental Regulation, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DONE AND ORDERED on this 1910 day of December -1992 in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

DANIEL H. THOMPSON General Counsel

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

CERTIFICATE OF SERVICE

I CERTIFY that a true copy of the foregoing was mailed to:

W. Jeffery Pardue, Manager Environmental Programs Florida Power Corp. 3201 Thirty-fourth Street South P.O. Box 14042 St. Petersburg, FL 33733

on this 2010 day of December 1992.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

W. DOUGLAS BEASON

Assistant General Counsel

2600 Blair Stone Road Tallahassee, FL 32399-2400 Telephone: (904) 488-9730

BEST AVAILABLE COPY

Environmental Res-

of General Counsel



November 30, 1992

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

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, Manager

Got Bluzaid, Sor/

Environmental Programs

cc: Mr. Harry Kerns, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.



Mr. Jeff Braswell, Esq. Office of General Counsel

January 26, 1993

D.E.R.

JAN 2 8 1993

SOUTHWEST DISTRICT TAMPA

Florida Department of Environmental Regulation 2600 Blairstone Road Tallahassee, FL 32399-2400

Dear Mr. Braswell:

Re: Higgins Peaking Units Renewal Permits

(Permit Nos. A052-216420, -216421, -216422, -216423)

On November 17, 1992 Florida Power Corporation (FPC) received the referenced permits. On November 30, 1992, in accordance with Rule 17-103.070, FPC requested an extension of the time in which to file a petition for an administrative hearing, up to and including January 29, 1993. FPC is preparing documentation to support information which FPC will request be incorporated into the permit conditions. Because this submittal is not yet complete, FPC respectfully requests an additional extension of the time in which to file for an administrative hearing, up to and including March 1, 1993. Mr. George Richardson 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, Manager

Environmental Programs

cc: Mr. George Richardson, FDER

Mr. Gary Robbins, Pinellas County

Mr. Albert W. Morneault, P.E.



David L. Miller Senior Vice President Administrative Services

January 4, 1993

TO WHOM IT MAY CONCERN

Subject: Letter of Authorization

Please be advised that Patricia K. Blizzard, Director, Environmental Services Department, and Mr. W. Jeffrey Pardue, Manager of Environmental Programs, are authorized to represent Florida Power Corporation in matters relating to necessary permits and reporting documentation required from regulatory authorities in the areas of air, water, power plant site certifications and transmission line certifications, or hazardous and solid materials issues.

Sincerely,

David I Miller

DLM:mlp



· ple

D.I.A.

DEC 0 2 1992

SOUTHWEST DISTRICT TAMPA

November 30, 1992

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

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, Manager Environmental Programs

Lat Bluzaid, for

cc: Mr. Harry Kerns, FDER

Mr. Gary Robbins, Pinellas County Mr. Albert W. Morneault, P.E. Air Quality Division

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$P \quad C \cdot E \quad M$

Pinellas County Environmental Management.

.300 South Garden Avenue Clearwater, Florida 34616

FAX: (813) 462-4420

Phone: (813) 462-4422

Suncom: 570-4422

Date: 11/17/52

To: George Richardson

Subject: Florida Power Horan Pecker

Findulal Emission Tables and AUR Facois

From:

46

Pages:

Fax #:

BEST AVAILABLE COPY

BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

DEPT. OF ENVIRONMENTAL MGMT. AIR QUALITY DIVISION 300 S. GARDEN AVE. CLEARWATER, FL 34616

COMMISSIONERS

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

November 16, 1992

Nr. George Richardson

Department of Environmental Regulation
3804 Coconut Palm Drive
Tampa, Fla. 33619 8318

RE: Florida Power Corporation; Permit No. A052-216420; Peaker Unit No. 1

Mr. Richardson:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S), for the above mentioned facility. The application is deemed complete. A model draft permit has been attached for your review with recommended minimum conditions if DER determines a permit should be issued. Emission tables for Peakers 2-4 are also attached for inclusion in their permits.

If you have any questions contact this office at Suncom 570-4422.

Sinceraly,

Gary Robbins, Environmental Program Manager Air Quality Division

cc: PF, RF

AQC. 233

"Pinellas County is an Equa: "pportunity Employer" . Member-Pinellas Partnership for a Drug. ee Workplace



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].

- 7. 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 (% by weight)

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.

Page: 2 or

PERMITTEE:
Florida Power Corporation

WUHLIIY

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FINELLHO

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

- 8. The Pinellas County Department of Environmental Management, Air Quality Division shall be notified in writing 15 days prior to any compliance testing. [Rule 17-297.340(1)(i), F.A.C.]
- 9. Maintain monthly records on site for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per calendar year, submit these records, in lieu of testing, to this office and the Pinellas County Department of Environmental Management, Air Quality Division.
- 10. Based on the original permit application, dated 9/8/77, the following are the maximum potential emission rates from this source upon which this permit is issued:

	lb./hour	<u>Tons/year</u>
Particualtes	20.16	88.3
60	65.55	287.1
SO ₂	14.11	61.81
NO.	273.37	1197.36
Hydrocarbons	23.94	194.86

- 11. 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 Subsection 403.061(13), F.S.
 - A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions for particulates, CO, SO₂, NO_x, and hydrocarbons based on fuel use, operating hours, and fuel analysis. Until further notice by the Department of Environmental Management, the facility shall calculate annual emissions by multiplying the fuel use times the following emissions factors:

	No. 2 fuel OII	Natural Gas
	$1b./10^3$ gallors	1b./106 ft3
Particualtea	5.0	14
CC	15.4	115
SO ₂	1408	9408
SC ²	67.8	413
Hydrie actions	5.57	42

S denotes sulfur content % by weight (Provide calculation shoet; a) to doc. * calculations)

C. Any changes in the information contains in the permit applicables.

A copy of this report shall be submitted to the Air Sect of the mathwest District Office and Pinellas County Department of vironmental management, Ai Quality Division.

PERMITTEE:
A052-216420
Florida Power Corporation

Permit/Cer ication No:

Project: Higgins Peaking Unit No. 1

12. 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 60 days prior to the expiration date of this permit pursuant (Rule 17-4.090, F.A.C. and Pinellas County Ordinance 89-70, as amended, Subpart 2.210)

Issued	this	day	of	
19				

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

Page: 2 of 4

BEST AVAILABLE COPY

Florida Power - Higgins Peaking Unit No. 1

Permit: AO52-216420

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	96	
Gallons/hour	4032	
MMcf/hour		0.57
SO2 %	1	1
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	20.16	88.30
co	62.09	271.97
SO2	14.11	61.81
NOx	37	1197.36
Hydrocarbons	3	98.37

Endadoris Table Natural Gas

Line and Table National Ca		
ththour	Tons/year	
7 98	34.95	
65.55	287.11	
	0.00	
235.41	1031.10	
23.94	104.86	
	15/hour 7 98 65.55 235.41	

Permit: AO52-216421

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	96	
Gallons/hour	4032	
MMcf/hour		0.57
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	20.16	88.30
CO	62.09	271.97
SO2	14.11	61.81
NOx	273.37	1197.36
Hydrocarbons	22.46	98.37

	lb/hour	Tons/year
Particulate	7.98	34.95
CO	65.55	287.11
SO2		0.00
NOx	235.41	1031.10
Hydrocarbons	23.94	104.86

Best Available Copy

Florida Power - Higgins Peaking Unit No. 3

Permit: AO52-216422

Electric Utility Turbines

Fuel Usage

1 40. 00.90		
	No. 2 Fuel Oil	Natural Gas
BL/hour	107	
uallons/hour	4494	
MMcf/hour		0.63
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	22.47	98.42
co	69.21	303.13
SO2	15.73	68 PO
NOx	304 60	133-
Hydrocarbons	25 03	109.64

	lb/hour	Tons/year
Particulate	8.82	38.63
CO	72.45	317.33
SO2		0.00
NOx	260.19	1139.63
Hydrocarbons	26.46	115.89

randa Power - Higgins Peaking Unit No. 4 Permit: AO52-216423

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	107	
Gallons/hour	4494	
MMcf/hour		0.63
SO2 %	1	<u> </u>
Hours/year	8760	8760

Emissions Table Fuel Oil

	ib/hour	Tons/year
Particulate	22.47	98.42
CO	69.21	303.13
SO2	15.73	68.89
NOx	304.69	1334.56
Hydrocarbons	25.03	109.64

lb/hour	Tons/year
8.82	38.63
72.45	317.33
	0.00
260.19	1139.63
26.46	115.89
	8.82 72.45 260.19



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

DEPT. OF ENVIRONMENTAL MGMT. AIR QUALITY DIVISION 300 S. GARDEN AVE. CLEARWATER, FL 34616

COMMISSIONERS

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

D.E.R

NOV 2 4 1992

SOUTHWEST DISTRICT TAMPA

November 16, 1992

Mr. George Richardson Department of Environmental Regulation 3804 Coconut Palm Drive Tampa, Fla. 33619-8318

Florida Power Corporation; Permit No. A052-216420; Peaker Unit No. 1

Mr. Richardson:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S), for the above mentioned facility. The application is deemed complete. A model draft permit has been attached for your review with recommended minimum conditions if DER determines a permit should be issued. Emission tables for Peakers 2-4 are also attached for inclusion in their permits.

If you have any questions contact this office at Suncom 570-4422:

Sincerely,

Gary Robbins, Environmental Program Manager Air Quality Division

are 12M

cc: PF, RF

AQC.233

APPLICANT:
Florida Power Corporation
P.O. Box 14040
St. Petersburg, Fla. 33733

PERMIT/CERTIFICATION

No. AO52-216420 County: Pinellas

Expiration date: Sept. 16, 1997
Project: Higgens Peaking

Unit No. 1

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

For the operation of Higgins Peaking Unit No. 1 using natural gas or No. 2 fuel oil. Peaking Unit No. 1 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 0.57 MMCF/hour for natural gas and 96 BBL/hour for No. 2 fuel oil, with a maximum sulfur content of 1.0 % by weight.

Location: Shore Drive, Oldsmar

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

Replaces: A052-137555

Page: 1 of 4

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

SPECIFIC CONDITIONS:

- A part of this permit is the attached 15 General Conditions.
- 2. Visible emissions from this peaking unit shall not be equal to, or greater than 20% opacity [Rule 17-296.310, F.A.C.]
- 3. Test Peaking Unit No. 1, for visible emissions annually, between the dates of December 1, and February 28, if the peaking unit operated more than 400 hours during the preceding 12 month period. 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. [Rule 17-297.340 and 17-297.340(1)(h), F.A.C.]
- 4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9, contained in 40 CFR 60, Appendix A, and adopted by reference in Rule 17-297, F.A.C. The minimum requiements fro stack sampling facilities, source sampling, and reporting, shall be in accordance with Section 17-297, F,A,C, and 40 CFR 60, Appendix A. The Method 9 visible emission compliance test shll be conducted by a certified observer and be a minimum of sixty minutes in duration.
- 5. Peaking Unit No. 1 is permitted to operate within the following parameters:

1. Heat Input

566 MMBtu/hour

2. Fuel Consumption

96 BBL/hour of No. 2 Fuel Oil, 1% Sulfur by weight

0.57 MMCF/hour of natural gas

- 6. Testing of emissions must be conducted within 90 100% of the permitted rates as stated in Specific Condition No. 5. The peaker shall be tested when being fired on No. 2 fuel. 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].
- 7. 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 (% by weight)

This data is to be used to calculate the ${\rm SO}_2$ emissions for the Annual Operating Report submittal. Records must be kept for a minimum of two years.

Page: 2 of &

Permit/Certification 10: AO52-216420 Project: Higgins Peaking Unit No. 1

- 8. The Pinellas County Department of Environmental Management, Air Quality Division shall be notified in writing 15 days prior to any compliance testing. [Rule 17-297.340(1)(i), F.A.C.]
- 9. Maintain monthly records on site for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per calendar year, submit these records, in lieu of testing, to this office and the Pinellas County Department of Environmental Management, Air Quality Division.
- 10. Based on the original permit application, dated 9/8/77, the following are the maximum potential emission rates from this source upon which this permit is issued:

	<pre>lb./hour</pre>	<u>Tons/year</u>
Particualtes	20.16	88.3
co	65.55	287.1
SO ₂	14.11	61.81
NO.	273.37	1197.36
Hydrocarbons	23.94	104.86

- 11. 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 Subsection 403.061(13), F.S.
 - A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions for particulates, CO, SO₂, NO_x, and hydrocarbons based on fuel use, operating hours, and fuel analysis. Until further notice by the Department of Environmental Management, the facility shall calculate annual emissions by multiplying the fuel use times the following emissions factors:

	No. 2 Fuel OIl <u>lb./10³ gallons</u>	
Particualtes	5.0	14
co	15.4	115
so ₂	140s	940s
NO _x	67.8	413
Hydrocarbons	5.57	42

S denotes sulfur content, % by weight (Provide calculation sheet(s) to document calculations)

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.

PERMITTEE:
A052-216420
Florida Power Corporation

Permit/Certi ation No:

Project: Higgins Peaking Unit No. 1

12. 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 60 days prior to the expiration date of this permit pursuant [Rule 17-4.090, F.A.C. and Pinellas County Ordinance 89-70, as amended, Subpart 2.210]

19
STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION
Richard D. Garrity, Ph.D.
- ·
Director of District Management

Page: Pof 4

Permit: AO52-216420

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	96	
Gallons/hour	4032	
MMcf/hour		0.57
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	20.16	88.30
CO	62.09	271.97
SO2	14.11	61.81
NOx	273.37	1197.36
Hydrocarbons	22.46	98.37

	Elimoordi lo Tabi	ت المنتساسا صمن
	lb/hour	Tons/year
Particulate	7.98	34.95
CO -	65.55	287.11
SO2		0.00
NOx	235.41	1031.10
Hydrocarbons	23.94	104.86

Permit: AO52-216421

Electric Utility Turbines

Fuel Usage

<u></u>		
	No. 2 Fuel Oil	Natural Gas
BBL/hour	96	
Gallons/hour	4032	
MMcf/hour		0.57
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	20.16	88.30
CO	62.09	271.97
SO2	14.11	61.81
NOx	273.37	1197.36
Hydrocarbons	22.46	98.37

	lb/hour	Tons/year
Particulate	7.98	34.95
CO	65.55	287.11
SO2		0.00
NOx	235.41	1031.10
Hydrocarbons	23.94	104.86

Permit: AO52-216422

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	107	
Gallons/hour	4494	
MMcf/hour		0.63
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	22.47	98.42
CO	69.21	303.13
SO2	15.73	68.89
NOx	304.69	1334.56
Hydrocarbons	25.03	109.64

	lb/hour	Tons/year
Particulate	8.82	38.63
CO	72.45	317.33
SO2		0.00
NOx	260.19	1139.63
Hydrocarbons	26.46	115.89

Florida Power - Higgins Peaking Unit No. 4

Permit: AO52-216423

Electric Utility Turbines

Fuel Usage

	No. 2 Fuel Oil	Natural Gas
BBL/hour	107	
Gallons/hour	4494	
MMcf/hour		0.63
SO2 %	1	
Hours/year	8760	8760

Emissions Table Fuel Oil

	lb/hour	Tons/year
Particulate	22.47	98.42
CO	69.21	303.13
SO2	15.73	68.89
NOx	304.69	1334.56
Hydrocarbons	25.03	109.64

Emissions Table Natural Gas

	lb/hour	Tons/year
Particulate	8.82	38.63
CO	72.45	317.33
SO2		0.00
NOx	260.19	1139.63
Hydrocarbons	26.46	115.89

Best Available Copy

APPLICANT:
Florida Power Corporation
P.O. Box 14040
St. Petersburg, F 33733

PERMIT/CERTIFICATION

No.

A052-216420

County:

Pinellas

Expiration date:

Sept. 16, 1!

Project:

Higgens Feakl.

Unit No. 1

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

For the operation of Higgins Peaking Unit No. 1 using natural gas or No. 2 init. Peaking Unit No. 1 consists of two Pratt & Witney jet engines. The unit is rated at 33.8 MW/hour with a maximum heat input of 566 MMB2 'hour. Maximum fuel usage is 0.57 MMCF/hour for natural gas and 96 BB ur for No. 2 fuel oil, with a maximum sulfur content of 1.0 % by weight.

Location: Shore Drive, Oldsmar

UTM 17-336.5 E

3098.3 N

NEDS No : 0012

Point ID: 04

Replaces: A054-177555

Page: 1 of 4

PINELLAS HIR QUALITY 77 - 1 Nov 19,92 12:16 No.003 P.02

BEST AVAILABLE COPY

PERMITTEE: Florida Power Corporation

Permit/Certification No: A052-216420 Project: Miggins Peaking Unit No.1

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.

- 2. Visible emissions from this peaking unit shall not be equal to, or greater than 20% opacity [Rule 17-296.310, F.A.C.]
- 3. Test Peaking Unit No. 1, for visible emissions annually, between the dates of December 1, and February 28, if the peaking unit operated most 400 hours during the preceding 12 month period. Submit a copy of test 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. [Rule 17-297.340 and 17-297.340(1)(h), F.A.C.]
- 4. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9, contained in 40 CFR 60. Appendix A, and adopted by reference in Rule 17-297, F.A.C. The minimum requiements fro stack sampling facilities, source sampling, and reporting, shall be in accordance with Section 17-297, F,A,C, and 40 CFR 60, Appendix A. The Method 9 visible emission compliance test shill be conducted by a certified observer and be a minimum of sixty minutes in duration.
- 5. Paaking Unit No. 1 is permitted to operate within the following parameters:

1. Heat Input

566 MMBtu/hour

2. Fuel Consumption

96 BBL/hour of No. 2 Fuel Oil, 1% Sulfur by weight

0.57 MMCF/hour of natural gas

- 6. Testing of emissions must be conducted within 90 100% of the permitted rates as stated in Specific Condition No. 5. The peaker shall be tested when being fired on No. 2 fuel. A compliance test submitted at operating levels 'ess than 90% of permitted capacities will automatically constitute an ended permit at the lesser rate until another test (showing compliance) at a 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).
- 7. 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 (% by weight)

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

Page: 2 of

PERMITTEE:
Florida Power Corporation

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

- 8. The Pinellas County Department of Environmental Management, Air Quality Division shall be notified in writing 15 days prior to any compliance testing. [Rule 17-297.340(1)(i), F.A.C.]
- 9. Maintain monthly records on site for the hours this peaking unit operates. If the peaking unit operated less than 800 hours per calendar year, submit these records, in lieu of testing, to this office and the Pinellas County Department of Environmental Management, Air Quality Division.
- 10. Based on the original permit application, dated 9/8/77, the following are the maximum potential emission rates from this source upon which this permit is issued:

	lb./hour	Tons/year
Particualtes	20.16	88.3
co	65.55	287.1
SO ₂	14.11	61.81
NO.	273.37	1197.36
ilydrocarbons	23.94	104.86

- 11. 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 Subsection 403.061(13), F.S.
 - A. Annual amount of materials and/or fuels utilized.
 - b. Annual emissions for particulates, CO, SO₂, NO_R, and hydrocarbons based on fuel use, operating hours, and fuel analysis. Until further notice by the Department of Environmental Management, the facility shall calculate annual emissions by multiplying the fuel use times the following emissions factors:

	No. 2 fuel 01)	
	10.110^3 qallons	₹\$.\\$0 <u>6</u>
Pattings likes	5.0	14
CO	35.6	3.35
302	140s	940B
NO	67.8	413
Hydrocarbons	5,57	. 42

S denotes sulfur content, % by weight (Provide calculation sheet(s) to document calculations)

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

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

Page: 2 of 4

PINELLAS HIR Nov 19,92 12:17 No.003 P.04

BEST AVAILABLE COPY

PERMITTEE: A052-216420 Florida Power Corporation Permit/Cer ication No:

Project: Higgins Peaking Unit No. 1

12. 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 Vin Via Class County Department of Environmental Management, Air Quality Division 60 days prior to the expiration date of this permit pursuant [Rule 17-4.093, F.A.C. and Pinellas County Ordinanco 89-70, as amended, Subpart 2.210]

STATE	ar F	LORIDA	DEP	RTME	NT OF
22 2 VVI.5	nakac	THL RE	GULAI	NOI	

Director of District Management

MEMORANDUM

TO:

File

THRU:

W. C. Thomas, P.E.

THRU:

J. Harry Kerns, P.E.

FROM:

George W. Richardsoก์ 🗸

DATE:

November 10, 1992

SUBJECT:

Pinellas County - AP

Florida Power Corporation Higgins Peaking Unit No. 1

A052-216420

This permit is for the operation of Higgins Peaking Unit No. 1 located at Booth Road, Oldsmar, Pinellas County.

This unit consists of two Pratt & Witney 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

A]	PPLICATION TYPE HO (Kenewal)	FILE/PROC		
C	OMPANY Florida Power C	orp.	COUNTY	Pinellas
S	OURCE DESCRIPTION/COMMENTS	•	V	(Gas furbine
		DATE APP	PL. REC'D (Day :	1): <u>1/16/92</u>
C	HECK ATTACHED: (Y N Not Required ()		ON SUB TYPE COL	
F	EE SUBMITTED: () correct	() inco	Submi	ld Be \$ 2000.00 itted \$-2000.00
F	ee checked by:	DATE 7//	7/92 Needed/Re	erund \$
A	PPLICATION ASSIGNED TO:		DATI	E
_				
sy s	to 90 00 1/10 PERMIT APPLIC	ATION PROC	CESSING STATUS	
E B	11/20/92	N	Completed	<u>Initials</u>
Da	ate PATS Updated With Proces	sor Name:		
Da	ate AC Logged By Section Sec	retary:	<u>.</u>	· ·
Pe	ermit Engineer Submit Finish ermit Package & Recommendati istrict Air Engineer:		11-10-92	an
	ermit Package to District Ai dministrator:	r		
	ermit Package to Director of istrict Management:		11/10/92	WII
Pe	ermit Package Mailed Out:		NOV 1 3 1992	ma
-	DA'	TA FOLLOW	UP	
Is	ssue Date Updated on PATS:		NOV 1 3 1992	MQ
U	pdated on Wang:	1		
	216420 PATS		(PERMAPPL.S	HT) (11/08/91)
	216420 PAIS 421 422 (See effected assignment as	110.5	-	
		_		

APPLICATION TRACKING SYSTEM

APPL NO:216420	MAA TO
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DER DEFICE RECVD: TPA DER DEFICE IRANSFER IN A	PPLICATION COMPLETE: / /
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PROJECT SOURCE NAME: HIGGINS PEAKING UNIT I	
STREET:BOOTH ROAD	CITY: OLDSMAR
STATE:FL ZIP: PHONE:	
APPLICATION NAME: FLORIDA POWER CORP	
STREET:P 0 BOX 14042	CITY:ST PETERSBU
STREET: BOOTH ROAD STATE:FL ZIP: PHONE: APPLICATION NAME: FLORIDA POWER CORP STREET: P O BOX 14042 STATE:FL ZIP: 33733 PHONE: 8	13-866-5151
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STREET: STATE: ZIP: PHONE: FEE #1 DATE PAID:07/16/92 AMOUNT PAID:02000 RE	CEIPT NUMBER:00197831
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COMMENTS:

7	STATE OF FLORIDA EXERTMENT OF ENVIRONMENTAL REGULATION 197831
	BECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE
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	Applicant Name & Address
	Source of Revenue
	Revenue Code
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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 &

AD52-216423

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 engineeer 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



Florida

JUL 1 F STANET TO ME THE SOUTHWEST TO ME T

July 14, 1992

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

Dear Dr. Garrity:

Renewal of Air Operating Permits For Higgins Plant Steam and Peaking Units Re: 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:

- Correct the Unit I heat input rate. The value should be changed from 544 MMBTU/hr to 548 MMBTU/hr.
- Correct the Unit 2 heat input rate. The value should be changed from 500 0 MMBTU/hr to 523 MMBTU/hr.
- Correct the Unit 3 heat input rate. The value should be changed from 512 MMBTU/hr to 548 MMBTU/hr.
- The Unit 2 annual test date should be changed from July 21, 1986 to May 5, 1992.

DUEN





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:

THRU:

FROM:

W.C. Thomas $\int_{Q}^{Q} |S^{2}|$ J.W. Estler $\int_{Q}^{Q} |S^{2}|$

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 concversation 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

	company: Glorida Power	Corp.
	PROCESSOR: Etler	PERMIT NO. A052-137555
	DATE RECEIVED: 7/30/87	P.E. SEAL & SIGN: Y/NCHECK: Y/N
_	Day 90 10/28/87)	DATE TASK COMPLETED INITIALS
	DATE REC'D BY SECTION:	8/3/81 Www
	LOGGING BY SEC'Y	8/5/87 Www
	Permitting Eng'r submit finished permit package & recommendations to supervisor.	·
	Permit Package to Dist. Engr.	9/25/87 ORZ
	Permit Package to Dist. Mgr.	10/2/87 /10/
	Permit Package Mailed out:	
	DATA FOLLO	DW-UP
	Issue Date Updated on PATS:	·
	Updated on WANG:	· · · · · · · · · · · · · · · · · · ·

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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

August 31, 1987

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

RE: Florida Power Corporation, Permit# AO52-137555 (Replaces Permit# AO52-58633); Higgins Gas Turbine Peaking Unit# 1

retmic# A052-56655); higgins das idibine reaking onic#

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

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GR/0309E##

DE.R.

G1. 111

SEP 0 4 1987

WIND ON WITH WEST ON WICK

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

PERMIT/CERTIFICATION

No. AO52-137555 County: Pinellas

Project: Higgins Peaking

Unit# 1

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 a Higgins Peaking Unit# 1 using natural gas or #2 Fuel Oil. Peaking Unit# 1 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.: A052-58633 NEDS No.: 0012 Point ID: 04

Expiration Date: Five years from issue date

Permit/Certification : A052-137555
Project: Higgins Peaking Unit# 1

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 constitutes 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 form liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities, 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.

DER Form 17-1.201(5) Page: 2 of 6

Permit/Certification No. A052-137555 Project: Higgins Peaking Unit# 1

- 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.

Permit/Certification No. A052-137555 Project: Higgins Peaking Unit# 1

- 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.
 - The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance and all original strip chart recordings records 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.

DER Form 17-1.201(5) Page: 4 of 6

Permit/Certification: A052-137555
Project: Higgins Peaking Unit# 1

SPECIFIC CONDITIONS: Higgins Peaking Unit# 1, Permit# A052-137555:

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
() Nitrogen Oxides
(X) Opacity*
() Hydrocarbons
() Total Reduces Sulfur

- * Visible emissions test must be conducted while unit is fired on #2 Fuel Oil
- 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..
- Compliance with the emission limitations of Specific Conditions#
 and 2 shall be determined as follows:

Pollutant ______ Test Method
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# 1 is permitted to operate at the following parameters:

A. Process Parameters:

1. Heat Input: 566 MMBTU/hour

 Fuel Consumption: 96 BBL/hour of #2 fuel oil 0.57(10⁶) ft³ of natural gas

3. Stack Height: 50 feet

4. Peaker Make: Two Pratt & Witney jet engines

DER Form 17-1.201(5) Page: 5 of 6

PERMITTEE: Florida Power Corporation

Permit/Certification **o: A052-137555
Project: Higgins Peaking Unit# 1

- 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 ${\rm SO}_2$ 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.

19	-			
		FLORIDA TAL REGUL	DEPARTMENT ATION	OF
		Garrity,	Ph.D.	

Issued this day of

DER Form 17-1.201(5) Page: 6 of 6

APPLICATION TRACKING SYSTEM

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COMMENTS:

Copy to 15/87

PAGE 3469

COUNTY: PINELLAS MASTER DETAIL REPORT FILE AIRFO9

FACILITY SOURCE ID: 40PNL52001204

SOURCE INFORMATION RECORD

***** CONSTRUCTION PERMIT/PPS INFORMATION ***** PERMIT #:
***** OPERATION PERMIT INFORMATION ***** PERMIT #: A05258633 FEE PAID: AOR REQUIRED: . (Y OR N) DATE ISSUED: 10 / 22 / 82 DATE EXPIRES: 10 / 12 / 87
***** SOURCE DESCRIPTION/TRACKING INFORMATION ***** DESCRIPTION: >EAKING UNIT #1 GASTURBINE GENERATOR STATUS: A = ACTIVE # OF SCC: 003 # OF POLLUTANT: 007 MAJOR SRC: Y (Y OR N) INITIAL CONSTRUCTION DATE: / / TYPE: =
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 ***** MAIX PROCESS RATE: UNITS: OTHER MAX PRODUCTION RATE: UNITS: OTHER
SOURCE EMISSION POINT RECORD
EMISSION POINT INFORMATION ##### EMISSION POINT TYPE: =
**** CONTROL EQUIPMENT INFORMATION *****

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

RUN DATE 05/01/87
DISTRICT:SOUTHWEST
COUNTY:PINELLAS

DEPRIMENT OF ENVIRONMENTAL RELATION RIR POLLUTANT INFORMATION SYSTEM MASTER DETAIL REPORT

PAGE 3470 FILE AIRF09

FACILITY SOURCE ID: 40PNL52001204

SOURCE SCC RECORD

SCC #: 2-01-002-01	= ENGINE ELE GEN NAT GAS TURBINE	
UNIT'S: 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 TURBINÉ	

SOURCE SCC RECORD

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

SOURCE POLLUTANT RECORD

***	*** POLEUTANT/CON	TROL INFORMATION	***
POLLUTANT ID: VOC	= NONMETHANE VOLATILE	ORGANIC COMPOUNDS	% EFF:
PRI: =	• • • • • • • • • • • • • • • • • •	SEC: =	
	**** EMISSION	INFORMATION ***	•
POTENTIAL EMISSION	: 99999° . 9900 (LB/H	R)	(TON/YR)
ESTIMATED EMISSION	: (TON/	YR) EST CODE: *	
ACTUAL EMISSION	: (TON/	YR) AOR CODE: .	ADR YR: 86
ALLOWABLE EMISSION	: (LB/H	R) 999999 • 0000	(TON/YR)
ALLOWABLE EMISSION	: () OTHER	UNIT
REGULATION CODE	: =	• • • • • • • • • • • • • • • •	CEM?: . (Y OR N)
TEST FREQUENCY	: D = NONE REQUIRED	FREQUENCY BAS	E DATE: / /
	:		

RUN DATE 05/01/87
DISTRICT:SOUTHWEST
COUNTY:PINELLAS

DETERTMENT OF ENVIRONMENTAL REPLATION AIR POLLUTANT INFORMATION SYSTEM MASTER DETAIL REPORT

PAGE 3471

COUNTY: PINELLAS MASTER DETAIL REPORT FILE AIRFO9

FACILITY SOURCE ID: 40PNL52001204

SOURCE POLLUTANT RECORD

POLLUTANT ID: SO2 = PRI: =		SEC: =	% EFF:
POTENTIAL EMISSION: ESTIMATED EMISSION: ACTUAL EMISSION: ALLOWABLE EMISSION: ALLOWABLE EMISSION: REGULATION CODE: TEST FREQUENCY:	***** EMISSION INFO 00033. 3700 (LB/HR) (TON/YR) (LB/HR) (LB/HR) = (0 = NONE REQUIRED 0000000000000	EST CODE: * AOR CODE: OTHER	(TON/YR) AOR YR: 86 (TON/YR) UNIT CEM?: • (Y OR N)
	SOURCE POLLUT	ANT RECORD	
POLLUTANT ID: PM = PRI: =	** POLLUTANT/CONTRO PARTICULATE MATTER	sec: =	% EFF:
POTENTIAL EMISSION: ESTIMATED EMISSION: ACTUAL EMISSION: ALLOWABLE EMISSION: ALLOWABLE EMISSION: REGULATION CODE: TEST FREQUENCY:	***** EMISSION INFO DDDD9 . 2600 (LB/HR) (TON/YR) (TON/YR) (LB/HR) LB/HR D = NONE REQUIRED GGINS PEAKIN	EST CODE: * AOR CODE: . 000012 . 0000) OTHER	(TON/YR) ADR YR: 86 (TON/YR) UNIT CEM?: • (Y OR N)
	SOURCE TEST	RECORD	
TEAM NAME:	ACTUAL: ACTUAL: ACTUAL: PARTICULATE MATTER IS: TEST AC	UNITS: UNITS: OTHE T UNITS: T EMIS: 00002 . 67	R EST PASS? (Y OR N) OODO SIGN:

RUN DATE 05/01/87
DISTRICT:SOUTHWEST
COUNTY:PINELLAS

DETERMENT OF ENVIRONMENTAL REPLATION AIR POLLUTANT INFORMATION SYSTEM MASTER DETAIL REPORT

PAGE 3472 FILE AIRF09

FACILITY SOURCE ID: 40PNL52001204

SOURCE POLLUTANT RECORD

POLLUTANT ID: NOX =	** POLLUTANT/CONTRO NITROGEN OXIDES		×ቀ ቀ ቀቀ % EFF: •• • •
POTENTIAL EMISSION: ESTIMATED EMISSION: ACTUAL EMISSION: ALLOWABLE EMISSION: ALLOWABLE EMISSION: REGULATION CODE: TEST FREQUENCY:	##### EMISSION INF DD197	EST CODE: * AOR CODE:	AOR YR: 86 (TON/YR) NIT CEM?: . (Y OR N)
	SOURCE POLLUT	ANT RECORD	
POLITETANT TO: CO =	* POLLUTANT/CONTRO CARBON MONOXIDE		% FFF:
POTENTIAL EMISSION: ESTIMATED EMISSION: ACCTUAL EMISSION: ALLOWABLE EMISSION: ALLOWABLE EMISSION: REGULATION CODE: TEST FREQUENCY:	***** EMISSION INF 99999 9900 (LB/HR) (TON/YR) (LB/HR) = (LB/HR) = (LB/HR)	EST CODE: * AOR CODE: . 999999 . DODD	AOR YR: 86 (TON/YR) NIT CEM?: . (Y OR N) DATE: / /
	SOURCE POLLUT	ANT RECORD	
POLLUITANT ID: BNZ =	** POLLUTANT/CONTRO BENZENE		% EFF:
POTENTIAL EMISSION: ESTIMATED EMISSION: ACTUAL EMISSION: ALLOWABLE EMISSION: ALLOWABLE EMISSION: REGULATION CODE: TEST FREQUENCY:	**** EMISSION INF (LB/HR) (TON/YR) (LB/HR) (LB/HR) (LB/HR) (LB/HR) C = NONE REQUIRED	EST CODE: . AOR CODE: .) OTHER UI	AOR YR: 86 (TON/YR) NIT CEM?: . (Y OR N) DATE: / /

RUN DIATE 05/01/87 DE TIMENT OF ENVIRONMENTAL REPLATION DISTRICT: SOUTHWEST AIR POLLUTANT INFORMATION SYSTEM COUNTY: PINELLAS MASTER DETAIL REPORT

PAGE 3473 FILE AIRF09

FACILITY SOURCE ID: 40PNL52001204

SOURCE TEST RECORD

TEAM NAME: MAX PRODUC POLLUTANT PERMIT ALL TEST ALLOW UNITS: LB/ TEST ACT COMMENTS:	CESS RATETION RATED: BNZ.OWABLE EMIS: HR	E: = BENZENE MIS: W (-) O'R AE	ACTUAL ACTUAL TE	ST ACT	UNITS: UNITS: UNITS: LOWABLE:	TEST PASS? .	(Y OR N)
			SOURCE V	IE/TEST	RECORDS		
		***	VF T	NEORMAT	ION ***	¥ *	
POLITETANT	TD: VF	= VISIBLE E			7014 +++	, ,	
ALLOW % OP	ACITY:	NORMAL:	• E	XCEPT:	• • •	TIME: (MIN)	
REG CO	DE:	• • • • • • • • • • • • • • • • • • • •			• • • • •	CEM ? . (Y OR	N)
TEST FR	EQ: 1 = 1	ANNUALLIY	F	REQ BAS	E DATE: 02 /	11 / 84	
		****	TECT	TAIEADMA	TION ***	***	
CURRENT TE	ST DATE:				T DATE: 02 /		
O'R S FR V	FP NAME .	7					
TEST	LENGTH:	060 (MIN)			TEST PASS ?	. (Y OR NETIME: (MIN)	
TEST %	OPACITY:	NORMAL: 01	16 E	XCEPT:	• • •	TIME: (MIN)	
COMMENTS:	600						
					TION ***		
CURRENT TE	ST DATE:	10 / 06 /	82 N	EXT TES	T DATE: 02 /	/ 11 / 84	
OBSERV	ER NAME:	S OF CHETNIN			TECT DACC 2	(V 00 NF	
TFRST X	OPACTTY:	NORMAL: DE	in F	YCFPT.	IEST PASS :	. (Y OR N) TIME: (MIN)	
COMMENTS:	600	NORTHEL G.		LACE! I.	•••	13.114.1	
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CURRENT TE	ST DATE:				T DATE: 02 /		
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DER ATR PERMIT INVENTORY SYSTEM SOUTHWEST DISTRICT PINELLAS COUNTY

40/52/0042/04 PAGE 4

48725782

PLANT 0042 FLA POWER SHORE OR OLDSMAR 33557

UTILITY FILE STATUS SENT

SAINT PETERSBURG G C MOORE ROX 44042 C 4 ST PETE

POWER PLANT FI., AGCR=052 STC=4944

LAT=28:20:30N LON=82:48:47U . 33733 HTM ZONE 47 336.5KM F. 3098.2KM N.

OPER PATRM POINT 04 CONST PATSI ANS2-58A33 TSS= / / FXP= / / TSS=40/22/82 EXP=40/42/87 PEAKING UNIT #4 GASTURBINE GENERATOR - FCAP=2 COMM.PNTS. -STACK HT= 53FT DIAM=45.4FT TEMP= 850F FLOW=4800000CFM PLUMF= 0FT BOTIFE CAP≈ - AMBTHINE FHEL FOR SPACE HEAT= .0% OPERATING PROCESS RATES YOR=78 RAW MATERIAL = 0 OTHER PRODUCT A OTHER FUEL 77 OTHER NORMAL COND. DEC-FER=25% MAR-MAY=25% DUN-AUG=25% SEP-NOV=25% PERMIT SCHEDULE 02HRS/DAY 7DAYS/UK S2UKS/YR

> COMPLIANCE NEDS=4 ORC=4 UPDATE 40/82 SCHED. / UPDATED 44/45/84 PERMIT=4 YOR=82 INSPECTED 40/04/82 NEXT DUE 40/04/83

800/8

2-04-004-04 YOR= SOURCE=C RATE= 924 MAX= 0.000 FUEL CONT SOZ= .00% ASH= 0.0% 133MBTU FYOR= CONFID=2

ANR FOR MS/45/82 M2HRS/DAY ZDAYS/WK S2WKS/YR

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

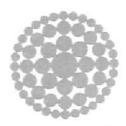
POLLUTANTS MONITORED

4.00 EST/METH= 46/2 MAX.ALW= 42 TNS/YR. TSP 44404 NORM= CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 00/00/73 TEST/FREQ= TESTED 00/00/73 AGENCY= REG= COMPLIANCE=
EMITTED= 2.67 ALLOWED= 0.00LBS/HR OP-RATE= 0.0THER 14 NORM= 0.00 EST/METH= 0/ MAX.ALW= 0 TNS/YR. CTLS.PRI= 0 SEC= 0 EFF= . % NEXT DUE / / TEST/FREQ= BNZ 44444 NORM= TESTED MM/MM/75 AGENCY= REG= COMPLIANCE= FMITTED= M.MM ALLOWED= 0.00LBS/HR OP-RATE= 44704 NORM= - FST/DETH= / MAX.ALU= TNS/YR. CTUS_PRI= 0 SEC= 0 EFF= 0.0% NEXT DHF // TEST/FREQ=4 TESTED 40/04/82 AGENCY=3 REG=400 COMPLIANCE=4 ENITTED= 400,40 ALLOWED= 400.20LBS/HR OP-RATE= 30 MBTU/B

INSPECTION REPORT FOR AIR POLLUTANT EMISSION SOUCES

FACILITY HIGGINS	PLANT ER CORPORATION		RICT OUTHWEST	COUNTY PINELLAS
ADDRESS BOOTH POINT,	OLDSMAR FL.	CON'I MR.		PBELL. MANAGER
APIS # PERI 40TPA52001204 AC	MIT # 052 - 58633	EXPI	RATION DATE	2/87
SOURCE DESCRIPTION GAS TURBINE	E PEDKING UN	7-10	No.1	
INSPECTION DATE 8/13/85	AUDIT TYPE MAJOR		COMPLIANCE ST IN COMPLIA COLD SH	NCE FOR EXTENDED
INSPECTION COMMENT	S/RECOMMENDATIONS			
A052-58	633 - GAS	M	RBINE PE	AKING UNIT
	566	MM	BTU/HR	
			•	NEY JET ENGINES
				1 .00 TINU
	ARI	E C	URRENTLY	STORED IN
				D WITH NITROGEN
	G 12) - T	DUE 10.	DOWN.
THE TOTAL	SL NUMBER O	F 1	HOURS OF	F OPERATION
TURING	THE LAST 1	S 1		
END OF	JULY, 1985	WF	ere 46	3.7. R.
				'SEP 1 1 1985'
			<u> </u>	JUNE ST MSTRICT
INSPECTOR(S) NAME(5) RAMON	50	PLIS	TAMPA
SIGNATURE(S			DATE	115 /85





Florida Power

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

Vice President, Fossil Operations

Hancock (MO2) C3-1

My belo /JAH

JAH:ey

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. G	ENERAL INFORMATION:		
2	Source Name: Florida Power Corp. (Higg: A052-58633 Source Address: P.O. Box 3, Oldsmar, FL 3:		4
4	Description of Source: Gas Turbine		
	OPERATING SCHEDULE: 24 hrs/day Operated 65.2 hours in 198 NAW MATERIAL INPUT PROCESS WEIGHT:	7 day/wk	52 wks/yr
 	N/A Product Output (tons/yr - cubic feet/yr)	put Process Weight	tons/yr tons/yr tons/yr tons/yr tons/yr
- - -	TOTAL FUEL USAGE, including standby fuels. If content (e.g., No. 6 oil with 1%S). 21.045	fuel is oil, specify weight 62.16 10 ³ gallons Note 10 ³ gallons Keine 10 ⁶ lb Black in tons Refuse	o. <u>2</u> 0il, <u>0.25</u> %S erosene
V. E	EMISSION LEVEL (tons/yr): A. 0.302 Particulates 6.453 Nitrogen Oxide Hydrocarbon 1.088 Sulfur Dioxide Other (Specify type and units)	Carbon Monoxid Total Reduced Fluoride	
В	Method of calculating emission rates (e.g. emission factors drawn from AP 42, etc.):		
I	J.	Allude	rized Representative

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 1

AO52-58633

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,

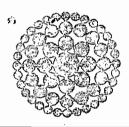
Dan A. Williams, P.E.

an a. Will

District Engineer Air, IW & HW Programs

JE/scm

cc: PCDEM



Does Pinelle

Erflor

Florida Power

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 $\underline{12}$ 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(WO3)C4a-2

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

Readers

copy popent 63

APR 13 1983

SOUTKWA COISTRICT

	BEST AVAILABLE COPY ROUTING AND TRANSMOTAL SLIP	ACTION NO.	-
	ROOTING AND TRANSMENT SLIP	ACTION DUE DATE	
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	REMARKS:	INFORMATION	
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	Lleave Clet us know your comments on the attached	The state of the s	
	0	DISPOSITION	
	attached	REVIEW & RESPOND	
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and the second s		,	
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	FROM:	PAR 4-15-83	,
	Tim Estler	PHONE	1
	1 2,000		
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			raigila. Mess

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, 58636

DATE OF INSPECTION: FEBRUARY 11, 1983

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

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

At the time of the inspection the peaker unit number 1 was being tested. Units 2, 3 and 4 were not in operation. The two Pratt & Whitney jet engines of unit No. 1 are fired by fuel oil No. 2, but they also have the capability to operate with natural gas.

During 1982, Unit No. 1 operated only 14 hours, while units 2 through 4 operated 22, 16 and 16 hours respectively during the year.

On November 24, 1982, The Florida Power Corporation petitioned the Florida Department of Environmental Regulation to eliminate the annual requirement of visible emissions testing for the four gas turbine generators at the Higgins Plant. No response has been received from DER as of this date.

A visible emissions test was performed during the test run (unfavorable conditions). Average opacity during the worst six minutes of operation was 15.6%.

The peaker units of the Higgins Plant of F.P.C. are considered to be in compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/jh

D.E.R.

MAR 25 1983

SOUTHWEST DISTRICT TAMPA

BEST AVAILABLE COPY ** - ** BEST AVAILABLE COPY VISIB EMISSION OBSERVATION FORM EPATR 101 HIGGINS PLANT SOURCE NAME SOURCE ID NUMBER OBSERVATION FLORIDA POWER CORP. PESKER UNIT #1 A052-58633 OBSERVER'S NAME (PRINT) RAMON ADDRESS BOOTH POINT, SHORE DRIVE ORGANIZATION FLORIDA OLDSMOR. PINELLAS COUNTY DIVISION OF AIR GUALI ZIP PHONE CERTIFIED BY **ET**つ 866-4509 DER FLORIDA DATE 16/82 SUNSHADOW LINE START TIME OPERATING MODE POCESS GAS TURBINE 13:15 STOP TIME POWER GENERATOR TEST RUN 45 15 30 O 20 CONTROL EQUIPMENT OPERATING MODE 20 20 .15 31 NONE N/A 2 15 15 ·15 SESCRIBE EMISSION POINT RECTANGULAR 15 15 33 15 15 4 15 34 MISSION POINT HEIGHT EMISSION POINT HEIGHT RELATIVE TO OBSERVER 15 15 15 (S 35 53 15 15 15 36 6 15 15 15 37 7 DIRECTION TO DISTANCE TO EMISSION POINT 8 15 15 15 15 MISSION POINT 2001 340 15 15 15 9 /5 39 10 10 15 10 10 40 DESCRIBE EMISSIONS SMOKE 10 11 10 10 *i* o 41 10 10 10 12 10 42 10 10 43 OLOR OF EMISSIONS CONTINUOUS 🔀 - FUGITIVE 🗌 13 10 14 ŀδ S 44 10 INTERMITTENT 🗌 🔻 BLACK 10 15 10 10 10 10 10 10 VATER VAPOR PRESENT IF YES, IS PLUME 16 10 46 ATTACHED N 10 10 10 10 🛛 YES 🗍 DETACHED 17 10 47 -18 10 10 10 48 10 TWHAT POINT WAS OPACITY DETERMINED 10 FT ABOUT 10 19 10 10 10 49 20 10 10 10 50 RECTANGULBR STOCK 10 21 51 か 10 10 10 SESCRIBE BACKGROUND 10 10 SKY 01 53 23 10 10 10 SKY CONDITIONS OLOR OF BACKGROUND 10 54 24 60% CC BLUE/NHITE 25 55 WIND DIRECTION IND SPEED 26 56 NW HAMOL 27 57 AMBIENT TEMPERATURE RELATIVE HUMIDITY 28 58 70 29 COMMENTS 30 USING #Z OIL AVERAGE OPACITY NUMBER OF READINGS ABOVE WORST TESTING TURBINE 15.6 SIX MIN % WERE_ RANGE OF OPACITY READINGS FROM. SOURCE LAYOUT SKETCH EMISSION PT.

IBSERVER'S SIGNATURE

DATE

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.

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:

- 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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2/15/82 Why percent



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.

dec 10 1232

SCUTHWEST DISTRICT AMPA

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

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

Very truly yours,

Demnis A. Shantz, Supervisor Environmental Services

Shantz(TO5)C1-2

cc: R. E. Parnelle

J. Alberdi F. Denby T. L. Brouette Reader's File

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DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD DER PROCESSOR:RICHARDSON DER OFFICE: TPA FILE#000000058633 COE# FILE NAME: FLORIDA POWER CORP DATE FIRST REC: 07/29/82 APPLICATION TYPE:AO APPL NAME: FLORIDA POWER CORP APPL PHONE: (843)866-5454 PROJECT COUNTY:52 CITY:ST PETERSBURG ST:FLZIP:33733 ADDR:P 0 BOX 14842 AGNT PHONE: C) ---HUM. MAME: ST: ZIP: ADDR: CITY: ADDITIONAL INFO REQ: / / REC: / APPL COMPLETE DATE: 87/29/82 COMMENTS NEC:N DATE REG: / / DATE REC: LE. LEK 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 *** 18/22/82 15:44:09 FEE PD DATE#1:07/29/82 \$0100 RECEIPT#00063820 REFUND DATE: / / REFUND \$

FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$ APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE: 10/22/82

MALIERKS: HIGGINS #4 PEAKING UNIT

Processor

File Number 4052-58633

PERMIT APPLICATION STATUS SHEET

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55	Letter of Intent sent to * Supervisor		***************************************
50	Letter of Intent submitted * to District Manager		
75	<pre>Intent to issue/deny mailed *</pre>		· -
30	Permitting Eng'r submit finished permit package & recommendations to supervisor		-
33 .	Permit Package to Dist. Engr.		
85	Permit Package to Dist. Manager	10-22-82	21
90	Final Issuance/denial		

Copy to DC 5-2-82

^{*}If needed, If not indicate by N/A

TO:

The File

THROUGH:

Bill Thomas

FROM:

George Richarson

DATE:

October 21, 1982

SUBJECT:

Florida Power Corporation

AO52-58633

This permit is for the operation of the Higgins Peaking Unit #1 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.

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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

Unit No. 1			Unit	Unit No. 2			Unit No. 3				. 4	
Year	Hours	0i1	Gas	Hours	0i1	Gas	Hours	0i1	Gas	Hours	0i1	Gas
1977 1979 1980 1981	272 221 483 34	219 428 763 73	82 31 89 0.1	280 229 401 191	641 341 510 345	35 28 72 21	326 280 357 143	147 628 649 320	131 42 58 24	307 287 332 149	558 665 711 364	80 42 61 16

Oil units are $10\frac{3}{6}$ gal. Gas units are 10° cu. ft.

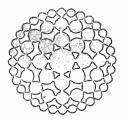
The last time the peakers were in operation, was in June 1982, when the Crystal River Nuclear Plant was down.

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



Florida Power

July 28, 1982

Dan Williams Department of Environmental Regulation Southwest District 7601 Highway 301 North Tampa, Florida 33610

Subject: Renewal of Air Operating Permits

Higgins Peaking Units 1-4

Dear Mr. Williams:

Enclosed are 4 copies of applications for renewal of the air operating permits for Higgins Peaking Units 1-4. Also enclosed are four checks for \$100.00 each for the filing fee.

If you have any questions, please contact me at (813) 866-5528.

Sincerely,

T. H. Wooten

Rusty Wooten

THW/gr

Enclosures

D.E.R.

JUL 29 1982
SOUTHWEST DISTRICT
TAMPA

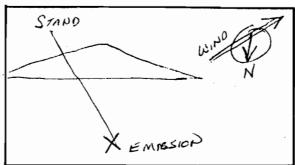
RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION HIGGINS PEAKER PLANT
PERMIT NUMBER AU 52 - 5702

DATE 9/30/82

TYPE FACILITY ELECTRIC GEN.

CONTROL DEVICE NONE



HOURS OF OBSERVATION 1416-1446
OBSERVER STEVEN L. STEVEN GH
OBSERVER CERTIFICATION DATE 4/5/82
POINT OF EMISSIONS Stock
HEIGHT OF DISCHARGE POINT 40'

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
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90°			
Cloudy BLACK			
Ι΄ Ι			
1/4 mi.			
1/4 mi. WORE SUNG	LASSES	;	: :

SUMMARY OF AVERAGE OPACITY

Set	Time	Ора	city
Number	StartEnd	Sum	Average
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	· <u>_</u>		

Readings ranged from 5 to 10 % opacity.

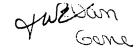
The source was/was-not in compliance with 3.7 at the time evaluation was made.

NOTES:

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

1416

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BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

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

March 21, 1982



Mr. William K. Hennessey, District Manager Department of Environmental Regulation S.W. District Office 7601 Highway 301 North Tampa, Florida 33610 MAR 25 1983

SOUTHWEST DISTRICT TAMPA

Dear Mr. Hennessey:

The Division of Air Quality, Enforcement/Engineering Section's activities for the month of February 1983 are summarized as follows:

<u>Citizen Complaints</u>

Four complaints were received in February.

1 - General Air Pollution

1 - Sawdust

1 - Dust

1 - Odor *

* Complaint against City of Largo Sludge Dryer - Permit A052-30168 - Continuing Case File.

Facility Inspections

- A. The following facilities are considered to be in full compliance:
 - 1. Florida Power Corporation Higgins Plant Permit A052-58633 Peaking Unit.
 - 2. Florida Power Corporation Bartow Plant Permit AC52-36102 Unit No. 1 V.E. Inspection Check.
 - 3. Florida Power Corporation Bartow Plant Permit A052-15188 Pipeline Heater Boiler.
 - 4. Tarpon Springs General Hospital Permit A052-18914.
 - 5. Life Sciences, Inc. Permit A052-42621.
 - 6. Sanitary Dash of Florida, Inc. Permit A052-13447.
 - 7. National Linen Service Permits A052-57834, 57835.

Mr. William K. Hennessey March 21, 1983 Page -2-

- 8. The Plasti-Kraft Corporation Permit A052-45373.
- 9. Dana Industries Permits A052-6501, 6502, 6503, 6504.
- 10. Cement Products Corporation Jeffords Plant Permits A052-48812, 48838.
- B. The following facilities have a compliance status other than full compliance:
 - 1. W. L. Cobb Construction Company Permit A052-5749. "Unknown" status due to extended delay in performing annual stack test.
 - 2. Stauffer Chemical Company All permitted points continue in an "unknown" status due to extended plant shutdown.
 - 3. Southern Stone (Division of S. & I. Minerals, Inc.) Non-permitted operation. Minor source but DER may consider permitting.

<u>General</u>

- 1. Issued six advance notices of compliance test due dates.
- 2. Prepared the Calendar Year 1982, VOC Emissions Inventory forms and letters for mailing in early March.
- 3. Consulted with Mr. James Manning, BAQM, regarding cyclonic flow, stack test procedures and problems relative to the method at W. L. Cobb Construction Company (asphalt plant with an inertial demister stack).
- 4. Reviewed and accepted stack test report on City of Largo Sludge Plant Permit A052-30168 (copy enclosed for your files).

Sincerely.

Joyce M. Gibbs, Chief. Division of Air Quality

PAH/fm Enclosures

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION



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. (F	liggins Peaker #1)	
	2. Permit Number: A052-5702	1199113 1 canci #27	
	3. Source Address: P.O. Box 3, Oldsmar, F	L 33557	
	4. Description of Source: Gas Turbine		·
II.	OPERATING SCHEDULE: 24 hrs/day Operat RAW MATERIAL INPUT PROCESS WEIGHT:	7 day/wk 52 ced (34.3 hours in 1981	wks/yr
II.	Raw Material N/A	Input Process Weight	tons/yr
		<u> </u>	tons/yr
			tons/yr tons/yr
			tons/yr
	Product Output (tons/yr - cubic feet/yr)		
	content (e.g., No. 6 oil with 1%S). O.117 10 ⁶ Cu. Ft. Natural Gas 10 ³ gallons Propane tons Coal tons Carbonaceous Other (Specify type and units)	73.29 10 ³ gallons No. 2 0i 10 ³ gallons Kerosene 10 ⁶ lb Black Liquor So tons Refuse	
٧.	EMISSION LEVEL (tons/yr): A. 0.18 Particulates 2.50 Nitrogen Oxide Hydrocarbon 1.33 Sulfur Dioxide Other (Specify type and units)	Carbon Monoxide Total Reduced Sulfur Flouride	
	B. Method of calculating emission rates (e emission factors drawn from AP 42, etc.		ls balance,
۷1.	CERTIFICATION:		
	I hereby certify that the information given knowledge.	in this report is correct to the best Signature of Owner or Authorized Rep	•
		G. C. Moore Vice President, Power Production	

DER Form PERM 12-15 (Jan78) Roy(EmRpt)D48

February 15, 1982

BEST AVAILABLE COPY

DEPARTMENT OF ENVIRONMENTAL REMAINON: ANNUAL OPERATIONS REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19.77 prior to March1si of the following year

		n I D	
GENERAL INFORMATION:			
1. Source Name: Florida Power Corp. (H	iggins Peaker #1)		B
2. Permit Number: A052-5702 Oldsmar, Fla.		MAR 7 1978	<u> </u>
3. Source Address: Ulusiliar, Fla.		TOWEST DIS	TRICT
lot Doaking Unit		TAMPA	
4. Description of Source: Jet Peaking Unit		1 Alvii V	
OPERATING SCHEDULE: 24 Operated 272.3 hr	s in 1977 days/wk	52 wks/yr	
RAW MATERIAL INPUT PROCESS WEIGHT:			
Raw Material	Input Process Weight		
N/A		- contrary () the field () contrary () co	tons
	•		
And the same of th			tons
		· · · · · · · · · · · · · · · · · · ·	tons
82.28		10 ³ gallons NoOil 10 ³ gallons Kerosene 10 ⁶ lb Black Liquor Solids	%S
tons Carbonaceous			
Other (Specify type and units)			
EMISSION LEVEL (tons/yr):			
A. 0.70 Particulates		Cartion Monoxide	
9.67 Nitrogen Oxide		Total Reduced Sulfur	
Hydrocarbon		Flouride	
3.34 Suffur Dioxide			•
Other (Specify type and units)			
B. Method of calculating emission rates (e.g., use of fu Test data from similar unit	el analysis and materials balanc	ce, emission factors drawn from	n AP 42, et
CERTIFICATION:			
I hereby certify that the information given in this repo	ort is correct to the best of my	3 powledge.	
	Signature of Owner or	Authorized Representative	
		, Director, Power Pr	oductio
	Typed Name and Title		
	March 3, 1978		
·	Date		

State of Florida

DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

	For Routing T And/Or To Other	o District Offices Than The Address	66 .
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To:	<u> </u>	Loctn.:	<u> </u>
То:	-	Loctn.:	· · ·
From:		Date:	· · · · · · · · · · · · · · · · · · ·

TO: File

THRU: Dan A. Williams

FROM: William H. Brown

RE: Florida Power Corporation, Higgins

Unit #1 is a 42 MW, 488 x 10^6 BTU steam generator, in 1977 it operated 5503.4 hours using 382.1 x 10^6 cu. ft. natural gas and 8940 x 10^3 gal. of #6 fuel oil with 2.3% sulfur or a discharge of 1676 tons SO2/yr. and 61 T/yr. TSP.

Unit #2 is a 45 MW 511 x 10^6 BTU steam generator. In 1977 it operated 6620.3 hours burning 362.8 x 10^6 cu. ft. of natural gas 13321 x 10^3 gal. #6 fuel oil, 1.9 x 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 x 10^6 BTU steam generator. In 1977 it operated 5089.8 hours burning 13582.3 x 10^3 gal. #6 fuel oil 1.34 x 10^6 gal. #2 oil with an emission of 85.6 T/yr. TSP, 425 T/yr. NO_X and 2547 T/yr. SO₂.

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.

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						STEAM	PLUME	E E
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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION



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		1052			
DATE					

TYPE FACILITY PERKIDE UNIT

Dennis	Α.	Shant	,
	41.	Juant	Z.

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

ification Officer Bearer's Signa

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
200.59	<u>.</u>	:
NW		
GROUND		
5€		
0-5		
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CLEAR	•	_
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SUMMARY OF AVERAGE OPACITY

Set	Time	<u>Opacity</u>			
Number	StartEnd	Sum	Average		
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	·		†`		

Readings ranged from <u>c</u> to <u>o</u> % opacity.

The source was/was not in compliance with <u>compliance</u> at the time evaluation was made.

NOTES:

- I. Minimum of 24 readings to be taken at 15 second intervals.
- 2. Readings are to be to the nearest 5% opacit

ST. PETERSUURI

BEST AVAILABLE COPY ANNUAL OPERATING REPORT

Calendar year 1976

Submit a separate report for each permitted source by FEBRUARY 28, 1977 "' A'R 10 SECTION 1: SOURCE NAME: HIGGINS P-1SCUTH WEST DISTRICE MAILING ADDRESS: FLORIDA POWER CORPORATION ST. PETERSBURG 33733 P. O. Box 14042, St. Petersburg, FL 813/866-4544 TELEPHONE NO: AO52-3120 OPERATING PERMIT NO: SOURCE DESCRIPTION: Gas Turbine PROCESS OPERATIONS: SECTION 2: 180.8 hours (1976) DURATION OF OPERATION AND FREQUENCY: 24 hrs/dy 7 dys/wk 5 e.g. 8 hrs perday, 5 dys per wk and 50 wk/yr. DESIGN CRITERIA: MAXIMUM QUTPUT 33.8 MW e.g. 850 MW, 750 tons/dy Gross Generation Hours Operated 26.6 MW NORMAL (AVERAGE) OUTPUT e.g. 424 MW, 670 tons/dy. MAXIMUM PEAK THAT OCCURED DURING ANY ONE DAY 33.8 MW e.g. 910 MW, 810 tons/dy. TOTAL AMOUNT OF MATERIALS USED/PROCESSED, COMPUTED ON THE SAME BASIS AS SECTION 3: PROCESS WEIGHT: TYPE (MATERIAL) INPUT PROCESS WEIGHT- DRY N/A N/A tons/yr tons/yr tons/yr TOTAL AMOUNT OF FUEL USED. IF FUEL IS OIL, SPECIFY WEIGHT, e.g. NO 2, SECTION 4: and % sulfur by weight. INCLUDE STANDBY FUELS. 10 cu ft gas 99.0 10³gal NO. ² OIL ^{0.18} SULFUR 61.4 10 gal PROPANE 10 gal KEROSENE 10⁶1b BLACK LIQUOR SOLIDS tons COAL OTHER, specify type and units EMISSION: ESTIMATED/TESTED EMISSIONS (TONS PER YEAR) SECTION 5: 1.3 tested tons of particulates tons of sulfur dioxide Not tons of nitrogen dioxide Tested tons of carbon monoxide Not tons of hydrocarbon Tested tons STATE METHOD OF CALULATIONS JUSED IN DETERMINING FMISSION RATES 42 Gal 2 Lbs SO2 Lbs 0il BELS Ton Lb $\overline{\mathtt{BBL}}$ 2000 Lbs Gas Oil

ANNUAL OPERATING REPORT calendar yezr 1976

SECTION	5(c	ont't)								
	c.	STACK TESTED: NONE date	-							
		STACK TEST CONDITIONS: PROCESS RATE DURING TEST								
		STACK TEST CONDUCTED BY:	•							
•		STACK TEST WITNESSED BY:	\$v ⁷							
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								
•										
CERTIFI	CATI	ON:								
		I HEREBY CERTIFY THAT THE INFORMATION GIVEN IN THIS REPORT IS CORRECT TO THE								
	BES	of MY KNOWLEDGE.								
		Eustice tarnelle								
		Signature of owner or authorized representative								

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

Typed name and title

March 4, 1977

Date

BEST AVAILABLE COPY

YISTBLE EMISSION FIELD REPORT TLORIDA POWER CORPORATION

P.O. BOX 14042, ST. PETE., FLA. 33733

DATE 21 Sept 76

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6	5		5		36					
7	5		5		37					DIRECTION OF SUN FROM SOURCES
8	5		5		38				<u> </u>	DIRECTION OF SUN FROM SOURCE
9	-5	·	5		39					
10	5		5		40			<u> </u>	 	
11	5		5		41			 	 	cloud coverage (IN%)
13	5		5		43			 	<u> </u>	30/0
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15	5		5-	<u> </u>	4.5			 		
16	<u>5</u>		5		46				 	NOTE:
17	5		15		47			 	 	I MINIMUM OF 25 READINGS MUST BE TAKEN.
18	5	_	5		48			-	<u> </u>	2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS TO THE NEAREST 5% OPACITY.
. 19	5		5		49			<u> </u>		TO THE REPREST 5 70 STROTT
20	5		5		50			1		
21	15		5		51					SUM OF OPACITY READINGS
22	5		5		52					300
23	5		5		53					
24	5		5		54			ļ		
25	.5		5		55				<u> </u>	TOTAL NUMBER OF READINGS
26	5_		5		56			ļ	<u> </u>	TOTAL NUMBER OF READINGS 60
27	5		5		57			ļ	<u> </u>	
28	5		5		58				 	STATE OF FLORIDA
29	5		5		59				L	DEPARTMENT OF ENVIRONMENTAL REGULATION
	Sile	4 05 09	ACITY B	EADINGS			_0	ח		
OPACIT			MBER OF		68 ,	,	5 1	0		
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OBSER	VER	_ <i>\</i> `_	your	<u> </u>	- NOC	an	3			Dennis Shantz
NOTES	-			/			0			the STATE OF FLORIDA visible emissions evaluation training
							<u> </u>			and is a qualified observer of visible emissions as specified by
										======================================
			-			•				This equificate expires on November 5, 1976
								.		- KALON Speed D. D. M. 4
****	F. P								UE 550"	Certification Officer Regres Signature F
				DRAWN						IRI Certification Officer Bearer's Signature FR NEW STATIONARY SOURCES, FEDERAL REGISTER VOL.3
NO. 247	DEC.	23, 197	I AND S	TATE OF F	LORIDA DI	EPT. OF	POLL	ITION CO	NTROL A	IR POLLUTION REGULATIONS FAC CH. 17-2.



Florida Power

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.

	P-1	P-2	<u>P-3</u>	P-4
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

cl 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 AO52-2036 has expired, please respond within 20 days of the date of this letter.

Sincerely,

J. H. Kerns, P.E.



Florida Power

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

cl Atts.



JOSEPH W. LANDERS JR.

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.

PERMIT WORKSALLT

SOURCE: Fla. Jower Corp. Heggins Peaking Unit P-1 COUNTY: Yenellas	DATE: 7-3-75 TYPE PERMIT: Operation	 (N)
ACTION	INITIAL WHEN COMPLETED D	ATE
Preliminary Review		
Assigned for Review to	<u> </u>	
Review comments		
		•
Number Assigned	·	
Permit issued & signed	· · · · · · · · · · · · · · · · · · ·	
Permit logged		
Permit mailed		
Data forms completed .		-
Permit Denied		

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	PERMIT WOR	K SHEET	NEDS PLA	ANT ID.
DELL'ERIES DI	D 1 ME		NEDS PO	INT ID.
REVIEWED BY:	DATE:	<u> </u>	PERMIT N	10.
IS INFORMATION CONFIDENTIAL?	YES	NО		
TYPE PERMIT ACT	ITON:	DESCD	IPTION OF PRIMA	ADV SOUDCE
New Source (No			Boiler	IKI BOURCE
Renewed or modi	•		Solid Waste	(Trainorstor)
Point source de	-	 	Other Combust	
Point source ad			Process	
New Source repl			Product (Name	
New Source Tebi	acting of a sou	irce	FICCUCE (Maine	: <i>)</i>
<u>BR</u>	RIEF DESCRIPTI	ON OF PROCES	<u>ss</u>	
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OPERATING TIME:	HR/	'Da	Da/Wk	Wk/Yr
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Temp. (°F)			Rate	
Flow Rate (CFM)			(Units) Gal_1	
Plume Height (FT)			Unit/Hr	
Common Stack (Explain)			nt	
Common Stack (HAPIAIN)			acity	
			Rate	
-5200 D		•	%s	
750000 /800 00/ COMMENTS: .24	••	i del viriane,	·	
COMMENTS: .24	/	•		
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4 412				16 mm
16 1250 4	100 = 169	200 A	CF4@100%	400 Ft3
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		2000 ACF	MC 850°/	- ATTE
#		7,000 ACF	/ PM	77 = 24 #
Percelon	18~	9 x 606	1.3 +	77 = 24 #

LOCATION -PERIOD DATE 22 23 24 25 26 27 28 29 30 31 House 10 11 20 21 13 21 23

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LOCATION ____ _ PERIOO_ DATE 9 20 21 22 23 24 25 26 27 28 29 30 31 House Ø 10 11 12 2/ 23 24

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

LOCATION HIGGIAS P-1	
PERMIT NUMBER A052-3120	
DATE	
TYPE FACILITY PEAKING UNIT	
CONTROL DEVICE	

Dennis A. Shantz

the STATE OF FLORIDA visible emissions evaluation training

and is a qualified observer of visible emissions as specified by EPA reference method 9. This ceryficate expires on Oct. 13, 1977

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 \$1		
NW		
GROUND		
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5E 0-5		
95		
CLEAR		
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SUMMARY OF AVERAGE OPACITY

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Readings ranged from <u>c</u> to <u>o</u> % opacity.

The source was/was not in compliance with 6 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.

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