

Appendix H-1, Permit History/ID Number Changes

Florida Power Corporation
Suwannee River

[DRAFT/PROPOSED/FINAL] Permit No.: 1210003-001-AV
Facility ID No.: 1210003

Permit History (for tracking purposes):

E.U.						
<u>ID No</u>	<u>Description</u>	<u>Permit No.</u>	<u>Issue Date</u>	<u>Expiration Date</u>	<u>Extended Date</u>	<u>Revised Date(s)</u>
-001	#1 Power Unit	AO61-189582	2/14/91	2/18/96	8/14/96	10/12/93, 7/12/94
-002	#2 Power Unit	AO61-189582	2/14/91	2/18/96	8/14/96	10/12/93, 7/12/94
-003	#3 Unit	AO61-189581	2/14/91	2/18/96	8/14/96	10/12/93
-004	#1 Peaking Unit	AO61-189579	2/14/91	3/3/96	8/14/96	
-005	#2 Peaking Unit	AO61-189579	2/14/91	3/3/96	8/14/96	
-006	#3 Peaking Unit	AO61-189579	2/14/91	3/3/96	8/14/96	

(if applicable) ID Number Changes (for tracking purposes):

From: Facility ID No.: 31JAX61000301

To: Facility ID No.: 1210003

Memorandum

TO: Chris Kirts, NED

FROM: Bruce Mitchell *BM*

DATE: January 29, 1997

SUBJECT: Completeness Review of an Application Package for a Title V Operation Permit
Florida Power Corporation, Suwannee River: 1210003-001-AV

The Title V operating permit application package for the referenced facility is being processed in Tallahassee. The application was previously forwarded to your office for your files and future reference. Please have someone review the package for completeness and respond in writing by March 1, 1997, if you have any comments. Otherwise, no response is required. If there are any questions, please call the project engineer, Steve Welsh, at 904/488-1344 or SC:278-1344. It is very important to verify the compliance statement regarding the facility. Since we do not have a readily effective means of determining compliance at the time the application was submitted, please advise if you know of any emissions unit(s) that were not in compliance at that time and provide supporting information. Also, do not write on the documents.

If there are any questions regarding this request, please call me or Scott Sheplak at the above number(s).

RBM/bm

cc: Bob Leech

1/27/97 Reading File
Steve Welsh
File



Department of Environmental Protection

Rita

Lawton Chiles
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Virginia B. Wetherell
Secretary

CERTIFIED - RETURN RECEIPT

July 12, 1994

Dr. P.Y. Baynard
Director - Environmental & License Affairs
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
ID #31JAX61000301
AO61-189582
Permit Revision

The Department on October 12, 1993, revised Specific Condition No. 1 of the above referenced permit to reflect the use of No. 2 fuel oil as an igniter fuel. In doing so, however, an error was made in the maximum allowable emission rates for Particulate Matter, Particulate Matter while soot blowing, and Sulfur Dioxide. This letter serves to correct that error.

This letter and attached revised Page 5 of 7 shall replace the October 12, 1993 revision and shall become a part of the referenced permit.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by filing 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 this Notice is filed with the Clerk of the Department.

If you have any questions concerning this matter, please contact Rita C. Felton at (904) 448-4310, extension 237.

Sincerely,

Ernest E. Frey, P.E.
1992 Director of District Management

RCF
E:RCF:rcf

Attachment

PERMITEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
 Permit/Cert: AO61-189582
 Date of Issue: February 14, 1991
 Expiration Date: February 18, 1996
 REVISED: July 12, 1994

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior Department approval:

<u>RATE</u>	<u>FUEL</u>
450 MMBTU/hr ¹	No. 6 fuel oil ²
460 MMBTU/hr	Natural Gas
— ³	No. 2 fuel oil ⁴

¹ From 72 barrels/hr

² Fuel oil sulfur content shall not exceed 2.5% by wt.

³ Include the actual quantity fired in the Annual Operating Report (AOR)

⁴ Used as pilot fuel during startup, shutdown, malfunctions

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition No. 1, or Specific Condition No. 3 will become effective.
3. The operating rate shall not exceed 110% of the most recently accepted test, except for additional testing purposes, and shall not exceed the rate in Specific Condition No. 1. After testing at a higher rate, the operating rate shall continue to not exceed the aforementioned rate until the test report at the higher rate is reviewed and accepted by the Department.
4. The permitted maximum allowable emission rate for each pollutant is as follows:

<u>POLLUTANT</u>	<u>FAC RULE</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2	45.0 ²	197.10 ³
PM ₂ ⁴	17-2.250(3)	135.0 ⁵	—
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	1237.5 ⁷	5420.25 ³
VE ₁ ⁸	17-2.600(5)(a)1	20% opacity, except 40% for 2 min/hr	
VE ₂ ⁹	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	
VE ₃ ¹⁰	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	

¹ PM - Particulate Matter

² Basis: 450 MMBTU/hr, 0.1 lb/MMBTU

³ Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y)

⁴ PM₂ - particulate matter while soot blowing

⁵ Basis: 450MMBTU/hr, 0.3 lb/MMBTU

⁶ SO₂ - sulfur dioxide

⁷ Basis: 450 MMBTU/hr; 2.75 lbs/MMBTU

⁸ VE₁ - visible emissions as Steady State

⁹ VE₂ - visible emissions while soot blowing

¹⁰ VE₃ - visible emissions while load changing




Lawton Chiles
Governor

Florida Department of Environmental Protection

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7577

Virginia B. Wetherell
Secretary

TO: Chris Kirts, PE Administrator
Air Program

FROM: Ernest E. Frey, P.E. 
District Director

DATE: June 24, 1994


SUBJECT: Delegation of Authority

Under the provision of Rule 17-101.040 (4)(g), you are hereby delegated the authority to execute all documents in my absence. This delegation includes permits, COs, NOVs, Final Orders, and orders for corrective actions which may include stipulated court settlements.

A copy of this memo will be filed with each document that you sign.

hd

Administration 448-4300
Air 448-4310
Waste Management 448-4320

 Recycled Paper
Printed with Soy Based Ink

Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366



Florida Department of Environmental Protection

Lawton Chiles
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7577

Virginia B. Wetherell
Secretary

CERTIFIED - RETURN RECEIPT

October 12, 1993

Dr. P.Y. Baynard
Director - Environmental & License Affairs
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
No. 1 Unit
ID#31JAX61000301
AO61-189582
Permit Revision

The Department has revised Specific Condition No. 1 of the above referenced permit to reflect the use of No. 2 fuel oil as an igniter.

This letter and attached revised page 5 of 7 shall become a part of the referenced permit.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by filing 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 this Notice is filed with the Clerk of the Department.

If you have any questions concerning this matter, please contact Rita Felton at (904) 448-4310, Extension 370.

Sincerely,

Ernest E. Frey, P.E.

Director of District Management

EEF:RF:bt

Attachment

Administration 448-4300
Air 448-4310
Waste Management 448-4320

Recycled Paper
Printed with 50% Recycled Ink

Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
 Permit/Cert: AO61-189582
 Date of Issue: February 14, 1991
 Expiration Date: February 18, 1996
 REVISED:

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Fuel</u>
450 MMBTU/hr ¹	No. 6 fuel oil ²
460 MMBTU/hr	Natural gas
---- ³	No. 2 fuel oil ⁴

¹From 72 barrels/hr

²Fuel oil sulfur content shall not exceed 2.5% by wt.

³Include the actual quantity fired in the Annual Operating Report (AOR)

⁴Used as a pilot fuel during startups, shutdowns, malfunctions

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2.	88.1 ²	385.88 ³
PM _{2.4}	17-2.250(3)	264.3 ⁵	-----
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	2422.75 ⁷	10611.64 ³
VE ₁ ⁸	17-2.600(5)(a)1.	20% opacity, except 40% for 2 mins/hr	
VE ₂ ⁹	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	
VE ₃ ¹⁰	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	

¹PM - particulate matter

²Basis: 881 MMBTU/hr; 0.1 lb/MMBTU

³Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y) and shall be recorded.

⁴PM₂ - particulate matter while sootblowing

⁵Basis: 881 MMBTU/hr; 0.3 lb/MMBTU

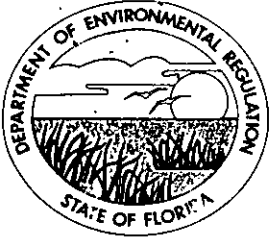
⁶SO₂ - sulfur dioxide

⁷Basis: 881 MMBTU/hr; 2.75 lbs/MMBTU

⁸VE₁ - visible emissions at Steady State

⁹VE₂ - visible emissions while sootblowing

¹⁰VE₃ - visible emissions while load changing



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
Permit/Cert Number: A061-189582
Date of Issue: 02-14-96
Expiration Date: February 18, 1996
County: Suwannee
Latitude/Longitude: 30°22'35"N; 83°10'50"W
Project: No. 1 Unit
UTM: E-(17)290.5; N-3362.2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 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 No. 1 Unit, Fossil Fuel Steam Generator.

Located south of U.S. 90, on east bank of Suwannee River, Northwest of Live Oak, Suwannee County, Florida.

In accordance with:

Application dated 11-07-80
Additional information received 02-19-81
Renewal application dated 12-02-85
Additional information received 12-26-85, 01-15 and 01-20-86
Renewal application received 11-26-90

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

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 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 Subsections 403.087(6) and 403.722(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 any 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 an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

- 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 Sections 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 noncompliance 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.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

13. This permit also constitutes:

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

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

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

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

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
 Permit/Cert: A061-189582
 Date of Issue:
 Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Fuel</u>
450 MMBTU/hr ¹	No. 6 fuel oil ²
460 MMBTU/hr	Natural gas

¹From 72 barrels/hr

²Fuel oil sulfur content shall not exceed 2.5% by wt.

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2.	45.0 ²	197.10 ³
PM ₂ ⁴	17-2.250(3)	135.0 ⁵	-----
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	1237.5 ⁷	5420.25 ³
VE ₁ ⁸	17-2.600(5)(a)1.	20% opacity, except 40% for 2 mins/hr	
VE ₂ ⁹	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	
VE ₃ ¹⁰	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	

¹PM - particulate matter

²Basis: 450 MMBTU/hr; 0.1 lb/MMBTU

³Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y) and shall be recorded.

⁴PM₂ - particulate matter while sootblowing

⁵Basis: 450 MMBTU/hr; 0.3 lb/MMBTU

⁶SO₂ - sulfur dioxide

⁷Basis: 450 MMBTU/hr; 2.75 lbs/MMBTU

⁸VE₁ - visible emissions at Steady State

⁹VE₂ - visible emissions while sootblowing

¹⁰VE₃ - visible emissions while load changing

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000301
 Permit/Cert: A061-189582
 Date of Issue:
 Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

5. Test the emission for the following pollutant(s) at the interval(s) indicated, notify the Department 14 days prior to testing, and submit the test report documentation to the Department within 45 days after completion of the testing:

<u>Pollutant</u>	<u>Interval</u>	<u>Test Method</u> ¹
PM ₁	12 months from 09-01-90 ²	EPA 5 or 17
PM ₂	12 months from 09-01-90 ²	EPA 5 or 17
SO ₂	12 months from 03-01-90 ²	----- ³
VE ₁ ⁴	12 months from 09-01-90 ²	DER 9
VE ₂ ⁴	12 months from 09-01-90 ²	DER 9

¹From 17-2.700(1), FAC in Table 700-1

²Per FAC Rule 17-2.700(2)(a)3.b., testing is not required if liquid fuel is used no more than 400 hrs/yr.

³See FAC Rule 17-2.700(6)(c)1.b.

⁴VE test shall be conducted during one of the test runs.

Tests and test reports shall comply with the requirements of Florida Administrative Code Rule 17-2.700(6) and (7), respectively.

6. If steady state emissions testing is required as noted above and if it is necessary to conduct soot blowing operations during the period that the unit is on oil, then a soot blowing emissions test shall be conducted in addition to the steady state emissions test. In order to produce stack emissions representative of soot blowing conditions, oil must be burned in the unit for a period of time immediately prior to conducting the soot blowing emissions test such that, in the unit operator's judgment, conditions for maintaining optimum boiler operations requires that soot blowing be conducted. The specific conditions under which the soot blowing emission test will be conducted shall be discussed and agreed upon between the Department and the permittee.
7. If any unit exceeds the maximum allowable emissions as indicated by the results of the testing, then the unit shall be retested on oil within one month of the date of the failed test. If it is not possible to retest within one month, a written request for a delay and an explanation of the cause of the failure and of the delay will be required within one month of the date of the failed test.
8. In conjunction with operation of this unit on oil, the permittee shall obtain and maintain (for Department review when requested) documentation that includes, but is not limited to, the following information: hourly rate of oil consumption, heat content of the oil consumed, and sulfur content of the oil consumed.
9. In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

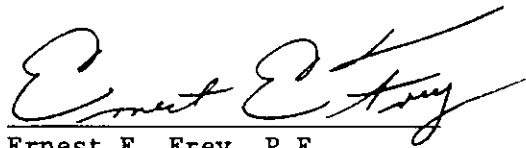
I.D. Number: 31JAX61000301
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

- 10. Submit an annual operation report for this source on the form supplied by the Department for each calendar year on or before March 1.
- 11. Any revision(s) to a permit (and application) must be submitted and approved prior to implementing.
- 12. The ID No. for this source is to be used on all correspondence.
- 13. Forms for the renewal will be sent 5 months prior to 02-18-96 and the completed forms with test results are due 90 days prior to 02-18-96.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

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

Betty Owen Clerk 2-14-91 Date

CERTIFICATION

PROJECT NAME: Florida Power Corporation
No. 1 Unit

Application No. A061-189582

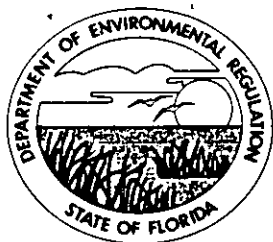
I HEREBY CERTIFY that the engineering features described in application No. A061-189582 provide reasonable assurance of compliance with the applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Title 17. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including, but not limited to, the electrical, mechanical, structural, hydrological, and geological features).

Andrew G. Kutyna, P.E.

Name, P.E.


Signature and Seal

2-12-9
Date



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED - RETURN RECEIPT

Dr. P.Y. Baynard, Director - Environ.& Licen. Affrs.
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
No. 2 Unit

Enclosed is Permit Number A061-189582 to operate the subject air pollution source, pursuant to Section 403.087, Florida Statutes (FS).

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 substantial interests are affected by the Department's action or proposed action;

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

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

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

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

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

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

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

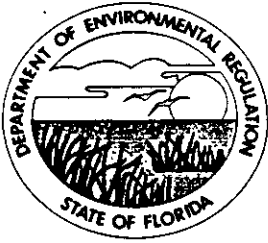
EEF:dhk

Copies furnished to: Richard O. Frazee, P.E.

FILING AND ACKNOWLEDGEMENT
FILED on this date, 2/14/91, at 10:00 AM
Signed with the original Department file
number of which is hereby acknowledged
Betty Johnson 2-14-91
Clerk

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/14/91 to the listed persons.



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
Permit/Cert Number: A061-189582
Date of Issue: 02-14-91
Expiration Date: February 18, 1996
County: Suwannee
Latitude/Longitude: 30°22'35"N; 83°10'50"W
Project: No. 2 Unit
UTM: E-(17)290.5; N-3362.2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 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 No. 2 Unit, Fossil Fuel Steam Generator.

Located south of U.S. 90, on east bank of Suwannee River, Northwest of Live Oak, Suwannee County, Florida.

In accordance with:

Application dated 11-07-80
Additional information received 02-19-81
Renewal application dated 12-02-85
Additional information received 12-26-85, 01-15 and 01-20-86
Renewal application received 11-26-90

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

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 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 Subsections 403.087(6) and 403.722(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 any 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 an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

- 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 Sections 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 noncompliance 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.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

13. This permit also constitutes:

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

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

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

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

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
 Permit/Cert: A061-189582
 Date of Issue:
 Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Fuel</u>
450 444 MMBTU/hr ¹	No. 6 fuel oil ²
450 MMBTU/hr #60	Natural gas

¹From 71 barrels/hr

²Fuel oil sulfur content shall not exceed 2.5% by wt.

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2.	45.0	197.1
PM ₂ ⁴	17-2.250(3)	44.42	194.47 ³
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	133.25	---
VE ₁ ⁸	17-2.600(5)(a)1.	1237.5	5347.98 ³
VE ₂ ⁹	17-2.250(3)	20% opacity, except	520.25
VE ₃ ¹⁰	17-2.250(3)	40% for 2 mins/hr	
		60% opacity up to	
		3 hrs in 24 hrs	
		60% opacity up to	
		3 hrs in 24 hrs	

¹PM - particulate matter

²Basis: 444 MMBTU/hr; 0.1 lb/MMBTU

³Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y) and shall be recorded.

⁴PM₂ - particulate matter while sootblowing

⁵Basis: 444 MMBTU/hr; 0.3 lb/MMBTU

⁶SO₂ - sulfur dioxide

⁷Basis: 444 MMBTU/hr; 2.75 lbs/MMBTU

⁸VE₁ - visible emissions at Steady State

⁹VE₂ - visible emissions while sootblowing

¹⁰VE₃ - visible emissions while load changing

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000302
Permit/Cert: AO61-189582
Date of Issue:
Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

5. Test the emission for the following pollutant(s) at the interval(s) indicated, notify the Department 14 days prior to testing, and submit the test report documentation to the Department within 45 days after completion of the testing:

<u>Pollutant</u>	<u>Interval</u>	<u>Test Method</u> ¹
PM ₁	12 months from 09-01-90 ²	EPA 5 or 17
PM ₂	12 months from 09-01-90 ²	EPA 5 or 17
SO ₂	12 months from 03-01-90 ²	----- ³
VE ₁ ⁴	12 months from 09-01-90 ²	DER 9
VE ₂ ⁴	12 months from 09-01-90 ²	DER 9

¹From 17-2.700(1), FAC in Table 700-1

²Per FAC Rule 17-2.700(2)(a)3.b., testing is not required if liquid fuel is used no more than 400 hrs/yr.

³See FAC Rule 17-2.700(6)(c)1.b.

⁴VE test shall be conducted during one of the test runs.

Tests and test reports shall comply with the requirements of Florida Administrative Code Rule 17-2.700(6) and (7), respectively.

6. If steady state emissions testing is required as noted above and if it is necessary to conduct soot blowing operations during the period that the unit is on oil, then a soot blowing emissions test shall be conducted in addition to the steady state emissions test. In order to produce stack emissions representative of soot blowing conditions, oil must be burned in the unit for a period of time immediately prior to conducting the soot blowing emissions test such that, in the unit operator's judgment, conditions for maintaining optimum boiler operations requires that soot blowing be conducted. The specific conditions under which the soot blowing emission test will be conducted shall be discussed and agreed upon between the Department and the permittee.
7. If any unit exceeds the maximum allowable emissions as indicated by the results of the testing, then the unit shall be retested on oil within one month of the date of the failed test. If it is not possible to retest within one month, a written request for a delay and an explanation of the cause of the failure and of the delay will be required within one month of the date of the failed test.
8. In conjunction with operation of this unit on oil, the permittee shall obtain and maintain (for Department review when requested) documentation that includes, but is not limited to, the following information: hourly rate of oil consumption, heat content of the oil consumed, and sulfur content of the oil consumed.
9. In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

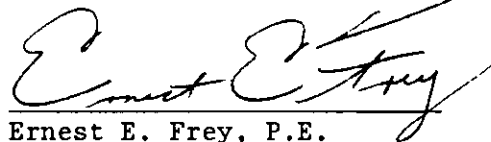
I.D. Number: 31JAX61000302
Permit/Cert: A061-189582
Date of Issue:
Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

10. Submit an annual operation report for this source on the form supplied by the Department for each calendar year on or before March 1.
11. Any revision(s) to a permit (and application) must be submitted and approved prior to implementing.
12. The ID No. for this source is to be used on all correspondence.
13. Forms for the renewal will be sent 5 months prior to 02-18-96 and the completed forms with test results are due 90 days prior to 02-18-96.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52, Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged. 2-14-91
Patty Shrew Clerk Date



Florida Department of Environmental Protection

Lawton Chiles
Governor

Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7577

Virginia B. Wetherell
Secretary

CERTIFIED - RETURN RECEIPT

October 12, 1993

Dr. P.Y. Baynard
Director - Environmental & License Affairs
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
No. 3 Unit
ID#31JAX61000303
AO61-189581
Permit Revision

The Department has revised Specific Condition No. 1 of the above referenced permit to reflect the use of No. 2 fuel oil as an igniter.

This letter and attached revised page 5 of 7 shall become a part of the referenced permit.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by filing 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 this Notice is filed with the Clerk of the Department.

If you have any questions concerning this matter, please contact Rita Felton at (904) 448-4310, Extension 370.

Sincerely,

Ernest E. Frey, P.E.
Director of District Management

EEF:RF:bt

Attachment

Administration 448-4300
Air 448-4310
Waste Management 448-4320

Recycled Paper
PRINTED AND ON BOND 148

Water Facilities 448-4330
Water Management 448-4340
FAX 448-4366

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
 Permit/Cert: AO61-189581
 Date of Issue: February 14, 1991
 Expiration Date: February 18, 1996
 REVISED:

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Fuel</u>
881 MMBTU/hr ¹	No. 6 fuel oil ²
880 MMBTU/hr	Natural gas
493 MMBTU/hr ³	No. 6 fuel oil ⁴
388 MMBTU/hr ⁵	Natural gas
--- ⁶	No. 2 fuel oil ⁷

¹From 141 barrels/hr

²Fuel oil sulfur content shall not exceed 1.0% by wt.

³Basis: 56% of 881 MMBTU/hr

⁴Fuel oil sulfur content shall not exceed 2.5% by wt.

⁵Basis: 44% of 881 MMBTU/hr

⁶Include the actual quantity fired in the Annual Operating Report (AOR)

⁷Used as a pilot fuel during startups, shutdowns, malfunctions

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2.	88.1 ²	385.88 ³
PM ₂ ⁴	17-2.250(3)	264.3 ⁵	----
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	2422.75 ⁷	10611.64 ³
VE ₁ ⁸	17-2.600(5)(a)1.	20% opacity, except 40% for 2 mins/hr	
VE ₂ ⁹	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	
VE ₃ ¹⁰	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	

¹PM - particulate matter

²Basis: 881 MMBTU/hr; 0.1 lb/MMBTU

³Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y) and shall be recorded.

⁴PM₂ - particulate matter while sootblowing

⁵Basis: 881 MMBTU/hr; 0.3 lb/MMBTU

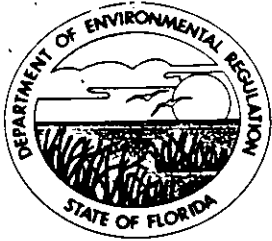
⁶SO₂ - sulfur dioxide

⁷Basis: 881 MMBTU/hr; 2.75 lbs/MMBTU

⁸VE₁ - visible emissions at Steady State

⁹VE₂ - visible emissions while sootblowing

¹⁰VE₃ - visible emissions while load changing



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED - RETURN RECEIPT

Dr. P.Y. Baynard, Director - Environ. & Licen. Affrs.
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
No. 3 Unit

Enclosed is Permit Number A061-189581 to operate the subject air pollution source, pursuant to Section 403.087, Florida Statutes (FS).

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 substantial interests are affected by the Department's action or proposed action;

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

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

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

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

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

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

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

EEF:dhk

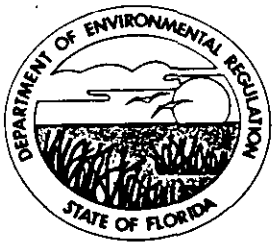
Copies furnished to: Richard O. Frazee, P.E.

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

Patty Allen 2/14-91
Clerk Date

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/14/91 to the listed persons.



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert Number: A061-189581
Date of Issue: 02-14-91
Expiration Date: February 18, 1996
County: Suwannee
Latitude/Longitude: 30°22'35"N; 83°10'50"W
Project: No. 3 Unit
UTM: E-(17)290.5; N-3362.2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 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 No. 3 Unit, Fossil Fuel Steam Generator.

Located south of U.S. 90, on east bank of Suwannee River, Northwest of Live Oak, Suwannee County, Florida.

In accordance with:

Application dated 11-07-80
Additional information received 02-19-81
Renewal application dated 12-02-85
Additional information received 12-26-85, 01-15 and 01-20-86
Renewal application received 11-25-90

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

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 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 Subsections 403.087(6) and 403.722(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 any 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 an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

- 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 Sections 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 noncompliance 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.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

13. This permit also constitutes:

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

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

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

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

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
 Permit/Cert: A061-189581
 Date of Issue:
 Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Fuel</u>
881 MMBTU/hr ¹	No. 6 fuel oil ²
880 MMBTU/hr	Natural gas
493 MMBTU/hr ³	No. 6 fuel oil ⁴
388 MMBTU/hr ⁵	Natural gas

¹From 141 barrels/hr

²Fuel oil sulfur content shall not exceed 1.0% by wt.

³Basis: 56% of 881 MMBTU/hr

⁴Fuel oil sulfur content shall not exceed 2.5% by wt.

⁵Basis: 44% of 881 MMBTU/hr

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
PM ₁ ¹	17-2.600(5)(a)2.	88.1 ²	385.88 ³
PM ₂ ⁴	17-2.250(3)	264.3 ⁵	-----
SO ₂ ⁶	17-2.600(5)(a)3.a.(xi)	2422.75 ⁵⁷	10611.64 ³
VE ₁ ⁸	17-2.600(5)(a)1.	20% opacity, except 40% for 2 mins/hr	
VE ₂ ⁹	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	
VE ₃ ¹⁰	17-2.250(3)	60% opacity up to 3 hrs in 24 hrs	

¹PM - particulate matter

²Basis: 881 MMBTU/hr; 0.1 lb/MMBTU

³Basis: Hours of operation shall be limited to 8760 H/Y (24 H/D; 7 D/W; 52 W/Y) and shall be recorded.

⁴PM₂ - particulate matter while sootblowing

⁵Basis: 881 MMBTU/hr; 0.3 lb/MMBTU

⁶SO₂ - sulfur dioxide

⁷Basis: 881 MMBTU/hr; 2.75 lbs/MMBTU

⁸VE₁ - visible emissions at Steady State

⁹VE₂ - visible emissions while sootblowing

¹⁰VE₃ - visible emissions while load changing

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

5. Test the emission for the following pollutant(s) at the interval(s) indicated, notify the Department 14 days prior to testing, and submit the test report documentation to the Department within 45 days after completion of the testing:

<u>Pollutant</u>	<u>Interval</u>	<u>Test Method</u> ¹
PM ₁	12 months from 09-01-90 ²	EPA 5 or 17
PM ₂	12 months from 09-01-90 ²	EPA 5 or 17
SO ₂	12 months from 03-01-90 ²	----- ³
VE ₁ ⁴	12 months from 09-01-90 ²	DER 9
VE ₂ ⁴	12 months from 09-01-90 ²	DER 9

¹From 17-2.700(1), FAC in Table 700-1

²Per FAC Rule 17-2.700(2)(a)3.b., testing is not required if liquid fuel is used no more than 400 hrs/yr.

³See FAC Rule 17-2.700(6)(c)1.b.

⁴VE test shall be conducted during one of the test runs.

Tests and test reports shall comply with the requirements of Florida Administrative Code Rule 17-2.700(6) and (7), respectively.

6. If steady state emissions testing is required as noted above and if it is necessary to conduct soot blowing operations during the period that the unit is on oil, then a soot blowing emissions test shall be conducted in addition to the steady state emissions test. In order to produce stack emissions representative of soot blowing conditions, oil must be burned in the unit for a period of time immediately prior to conducting the soot blowing emissions test such that, in the unit operator's judgment, conditions for maintaining optimum boiler operations requires that soot blowing be conducted. The specific conditions under which the soot blowing emission test will be conducted shall be discussed and agreed upon between the Department and the permittee.
7. If any unit exceeds the maximum allowable emissions as indicated by the results of the testing, then the unit shall be retested on oil within one month of the date of the failed test. If it is not possible to retest within one month, a written request for a delay and an explanation of the cause of the failure and of the delay will be required within one month of the date of the failed test.
8. In conjunction with operation of this unit on oil, the permittee shall obtain and maintain (for Department review when requested) documentation that includes, but is not limited to, the following information: hourly rate of oil consumption, heat content of the oil consumed, and sulfur content of the oil consumed.
9. In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

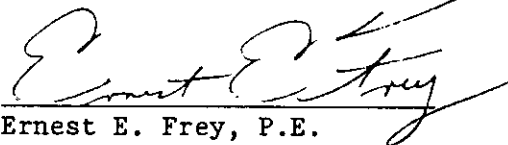
I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

SPECIFIC CONDITIONS:

10. Submit an annual operation report for this source on the form supplied by the Department for each calendar year on or before March 1.
11. Any revision(s) to a permit (and application) must be submitted and approved prior to implementing.
12. The ID No. for this source is to be used on all correspondence.
13. Forms for the renewal will be sent 5 months prior to 02-18-96 and the completed forms with test results are due 90 days prior to 02-18-96.

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

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

Debra Allen Clerk 2-14-91 Date

FINAL DETERMINATION

Florida Power Corporation

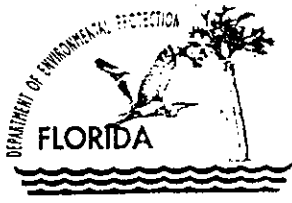
Permit No. PSD-FL-014(A), File No. 1210003-002-AC
Suwannee Facility, Peaking Units P1, P2, P3

An Intent to Issue a permit modification for Florida Power Corporation (FPC), Suwannee Facility, Peaking Units P1, P2, and P3 was distributed on February 14, 1997. The facility is located South of U.S. Route 90, Northwest of Live Oak, Suwannee County. The Public Notice of Intent to Issue was published in the Suwannee Democrat on February 28, 1997. No comments were received in response to the public notice.

Comments were received from Department staff pointing out that the application forms describe the units as presently fired with No. 2 fuel oil and on-spec used oil. No construction (or PSD) permit modifications have been made in the past to incorporate used oil firing. During discussions with FPC it was clarified that the present permit action allows only the addition of natural gas firing capability.

A reconciliation was performed of conditions in the original construction permits issued by the Department in 1978 with the PSD permit issued by EPA in 1979. This primarily affects the sulfur dioxide emissions limit in the PSD permit and is consistent with FPC's application.

The final action of the Department will be to issue the permit as proposed but with the changes indicated above.



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

May 5, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. W. Jeffrey Pardue, C.E.P.
Director, Environmental Services Dept.
Florida Power Corp.
3201 34th Street South
St. Petersburg, FL 33711

Re: Suwannee Power Plant, Peaking Units P1, P2, and P3
Modification of Final Determination - PSD-FL-014(A)
Addition of Natural Gas Capability

Dear Mr. Pardue:

The Department hereby amends the Conditions of Approval related to emissions and fuel use in the subject Final Determination (dated July 9, 1979 as amended on May 22, 1980 by EPA) pursuant to 40CFR52.21 - Prevention of Significant Deterioration (PSD Permit). The PSD permit is amended as follows:

Introduction

References to the number of turbines are reduced to three from four.

Condition 1. Standards for Nitrogen Oxides

Add the following section addressing natural gas combustion:

- (3) From any gas turbine, while firing natural gas, any exhaust gases which contain nitrogen oxides in excess of 0.0068 percent by volume at 15 percent oxygen and on a dry basis.

Condition 2. Standard for Sulfur Dioxide

Incorporate construction permit provisions from AC61-11862, 63, and 64 (issued November 28, 1978 as amended on February 5, 1979 by the Department) as follows:

FROM:

- (a) On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not cause to be discharged into the atmosphere from any stationary gas

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

turbine any gases which contain sulfur dioxide in excess of a 0.015 percent by volume at 15 percent oxygen and on a dry basis.

- (b) The sulfur content of the fuel fired by the gas turbine may be used to determine compliance with paragraph (a) of this section. Under such circumstances, on and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

TO:

- (a) On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of 0.0095 percent by volume at 15 percent oxygen and on a dry basis. The maximum allowed emission rate shall not to exceed 379 pounds per hour.
- (b) The sulfur content of the fuel fired by the gas turbine may be used to determine compliance with paragraph (a) of this section. Under such circumstances, on and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.5 percent by weight.

Condition 7 (new)

These stationary gas turbines shall burn natural gas and distillate (No. 2) fuel oil only. Burning of other fuels requires review, public notice, and approval through the preconstruction review process (Rules 62-210 and 62-212, F.A.C).

A copy of this modification letter and the General Permit Conditions pursuant to Rule 62-4.160, F.A.C. shall be attached to and shall become a part of Permit PSD-FL-014.

Sincerely,



Howard L. Rhodes, Director
Division of Air Resources
Management

HLR/aal/l

Enclosures

APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 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.
- G.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 or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and 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 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.
- G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.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.
- G.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.
- G.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:
- (a) Have access to and copy and 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.
- G.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.

APPENDIX GC
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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.

- G.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, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.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.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, 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.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit modification also constitutes:
- (a) Determination of Best Available Control Technology ()
 - (b) Determination of Prevention of Significant Deterioration () ; and
 - (c) Compliance with New Source Performance Standards (X).
- G.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 or 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; and
 - 6. The results of such analyses.
- G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Memorandum

Florida Department of Environmental Protection

TO: Howard Rhodes

THRU: Clair Fancy *CHF by Ann*

FROM: Al Linero *Al Linero s/s*

DATE: May 5, 1997

SUBJECT: FPC Suwannee Natural Gas Use for Peaking Units P1, P2, and P3

Attached is a modification to the EPA-issued PSD construction permit for the three oil-fired peaking units at Suwannee which are slated for addition of natural gas capability.

The revision deletes from the permit one authorized unit which was never constructed, while allowing firing of natural gas which is available to FPC on an interruptible basis.

The key issue is that these units have not operated close to their permitted hours of operation in recent years, yet they are slated for greatly increased service this year whether or not gas capability is added. This additional demand is not related to addition of natural gas capability. Since it is likely that the units will operate near their operating limits at some point, it is reasonable to use past allowable emissions to compare with future potential emissions. This results in no significant emissions increases and therefore the project is not subject to PSD or BACT.

Some discussion of peaking units was included in the WEPCO decision which alluded to the unreasonableness of doing a past actual to future potential emissions comparison when replacing a peaking unit. We consulted with EPA who agreed that our action was proper and they pointed us to a memo sent to GE in the early 1980's for adding natural gas capability to an oil-fired turbine.

FPC agreed to accept a lower NOx limit of 56 ppm while firing gas versus the present limit of 98 ppm. Because control of NOx to 56 ppm can cause a PSD-significant increase in CO, we have agreed to a NOx limit of 68 ppm. This is still a significant reduction in NOx emissions compared to fuel oil use.

We have updated the PSD permit to state that the only fuels which can be fired are natural gas and distillate fuel oil. We also took the opportunity to consolidate conditions (e.g. 0.5% sulfur in fuel oil) from the original Florida AC's which had not been included in the EPA-issued PSD permit. FPC is aware of these conditions and had included them in the application. We received no comments as a result of the public notice. I recommend your approval and signature.

AAL/aal/l

Attachments

Mr. Joseph W. Land
August 11, 1978
Page Two

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

For
And/O
To: _____
To: _____
To: _____
From: _____

Study Group Member

Steve S

Albert

Robert
Depart

Frank E

Victori

Study Group Recomm

RECEI

JAN 29

BUREAU
AIR REGULA

TO : Joseph W. Landers, Jr.

FROM: J. P. Subramani

J. P. Subramani

DATE: August 11, 1978

SUBJ: BACT Application for Four Florida Power
Gas Turbines, Suwannee River Plant Si
Suwannee County

Facility: Four 63,000 KW gas turbine electri
units to be located at Florida Powe
Suwannee River Plant. The units,
commercial operation in October 19
known as Suwannee River Peaking Un

At a peak power level of 63,000 KW
burn approximately 37,910 pounds o
fuel per minute which constitutes
rate of 739 million BTU/hr.

BACT Determination Requested by the Applicant

Nitrogen Dioxide: 75 ppm by v.

Sulfur Dioxide: 95 ppm by v

Opacity: Less than 2

Date Receipt of a Complete BACT Application:

May 12, 1978

Date of Publication in the Florida Administra

June 23, 1978

Date of Publication in a Newspaper of General

June 30, 1978 - Florida Times Unio

Ash Content
of Fuel

Particulates

NO₂

SO₂

Opacity

HC

CO

Noise

*Albe
Town

Wet

Low
Oil

*Albert Townsend f

**Steve Smallwood c

Mr. Joseph W. Landers, Jr.
August 11, 1978
Page Three

Other State and Local Emission Standard Applicable to Gas Turbines*:

<u>Pollutant</u>	<u>Fuel</u>	<u>Typical</u>	<u>Most Stringent</u>
NO _x	Gas	(75 ppm @ 15% O ₂) 0.3 lb NO _x /MMBTU	(42 ppm @ 15% O ₂) 125 ppm @ 3% O ₂)
	Oil	(75 ppm @ 15% O ₂) 0.3 lb NO _x /MMBTU	(75 ppm @ 15% O ₂) 0.3 lb NO _x /MMBTU
SO ₂	Oil	187 ppm 1% Sulfur by Weight (1 lb SO ₂ /MMBTU)	56 ppm 0.3% Sulfur by Weight (0.3 lb SO ₂ /MMBTU)
CO	All	None	None
Visible Emissions	All	20%	0%

*From the EPA's SSEIS document, EPA/450/2-77-017a

EPA's Proposed New Source Performance Standards for Gas Turbines:

The proposed standards were published in the Federal Register October 3, 1977 and are expected to be promulgated January, 1979, as follows:

Nitrogen Dioxide: 75 ppm by volume at 15 percent oxygen on a dry basis.

The standard would include an adjustment factor (see attachment) for gas turbine with thermal efficiencies greater than 25 percent, and also an adjustment factor (see attachment) for turbines burning fuels with fuel bound nitrogen content greater than 0.15 percent by weight. Each factor would result in a larger number. Measured NO_x levels would be adjusted to the International Standards Organization (ISO) reference conditions of 15°C and 60% R.H., 101.3 kilopascals pressure.

Sulfur Dioxide: 150 ppm by volume corrected to 15 percent oxygen, or
0.8% Sulfur by weight in fuel.

Mr. Joseph W. Landers, Jr.
 August 11, 1978
 Page Four

BACT Determination by Florida Department of Environmental Regulation:

Nitrogen Dioxide: 75 ppm by volume at 15 percent oxygen on a dry basis, adjusted to ISO.

The proposed standard would be EPA's proposed New Source Performance Standard. NO_x emissions from gas turbines, therefore, would be limited according to the following equation:

$$STD = (.0075 E) + F$$

Where:

STD = allowable NO_x emission (percent by volume at 15 percent oxygen)

E = efficiency adjustment factor: $\frac{14.4 \text{ kilojoules/watt-hr}}{\text{Actual ISO heat rate}}$

F = fuel-bound nitrogen allowance:

<u>Fuel-Bound Nitrogen</u> percent by weight (N)	<u>F</u> (NO _x - percent by volume)
(N) less than 0.015 percent	0
(N) between 0.015 and 0.1 percent	0.04 (N)
(N) between 0.1 and 0.25 percent	0.004 + 0.0067 (N-0.1)
(N) greater than 0.25 percent	0.005

During performance tests to determine compliance with the proposed standard, measured NO_x emission at 15 percent oxygen would be adjusted to ISO ambient atmospheric conditions by the following correction factor:

$$NO_x = (NO_{x_{obs}}) \left(\frac{P_{ref}}{P_{obs}} \right)^{0.5} e^{19 (H_{obs} - 0.00633)}$$

Where:

NO_x = Emissions of NO_x at 15 percent oxygen and ISO standard ambient conditions.

Mr. Joseph W. Landers, Jr.
August 11, 1978
Page Five

$NO_{x_{obs}}$ = Measured NO_x emission at 15 percent oxygen, ppmv.
 P_{ref} = Reference combustor inlet absolute pressure at 101.3 kilopascals (1 atmosphere) ambient pressure.
 P_{obs} = Measured combustor inlet absolute pressure.
 H_{obs} = Specific humidity of ambient air.
 e = Transcendental constant (2.718)

Sulfur Dioxide: 95 ppm by volume corrected to 15 percent oxygen in a dry basis, or 0.5% Sulfur by weight in fuel

Hydrocarbons: None

Carbon Monoxide: None

Particulates: None

Opacity: Less than 20%

Justification of DER Determination:

Nitrogen Dioxide

The proposed standard was selected after carefully examining the recommendations of the study group and the SSIES document for EPA's proposed standard. The SSIES document showed test data on 8 simple cycle peaking gas turbines. Of these, only 6 were fired with distillate fuel. Tests for controlled emissions were available for 4 of these 6 turbines. Test results showed a range in emission of 55 to 80 ppmv (after EPA's proposed upward correction for turbine efficiencies above 25%). Although three of these four turbines had emissions below or at the 60 ppmv level, the EPA's 75 ppmv standard was preferred because it allowed for the uncertain validity of the limited test data available.

SO₂

The only available and economically feasible technique for sulfur dioxide emission control is low sulfur oil. Other techniques for tail gas cleanup cost two to three times as much as the turbine itself.

In selecting the 0.5% S fuel by weight as the standard, the availability of this fuel and the relative economic advantage of its use were considered.

Mr. Joseph W. Landers, Jr.
August 11, 1978
Page Six

The lower 0.3% S by weight proposed by two members of the study group would result in an increase in fuel cost of 1.8% or about \$53,500/unit per year - a conservative estimate. Increases in ambient air concentrations expected to result from the operation of the turbines do not justify the need for the more stringent standard and increased cost of production.

HC, CO, Particulates:

The SSEIS document shows insignificant impact on ambient air from the limited gas turbines emissions of these pollutants.

Opacity:

The proposed standard is consistent with the SSEIS document and agrees with the recommendation of two of the three members of the group proposing an opacity standard.

Details of Analysis May be Obtained by Contacting:

Victoria Martinez
Bureau of Air Quality Management
Department of Environmental Regulation
2600 Blair Stone Road
Twin Towers Office Building
Tallahassee, Florida 32301

Recommendation from: Bureau of Air Quality Management

by: J. P. Subramani
J. P. Subramani

DATE: AUGUST 11, 1978

Approved by: Victoria Landers, Jr.
J. W. Landers, Jr.
Secretary

DATE: August 16, 1978

PSD-FL-0014
FPC SUWANNEE
LIVE OAK

Final Determination

Review of a Proposed Air Pollution Source Pursuant to Environmental
Protection Agency Rules for the Prevention of Significant Deterioration (PSD)

40 CFR 52.21

Suwannee River Power Plant

Four Gas Turbine Peaking Units

Florida Power Corporation, St. Petersburg, Florida

U.S. Environmental Protection Agency
345 Courtland Street, N.E.
Atlanta, Georgia 30308

I. Introduction

The Florida Power Corporation has applied to the U.S. Environmental Protection Agency to construct four 63 megawatt oil-fired gas turbine peaking units at its Suwannee River Power Plant located in Suwannee County midway between the towns of Live Oak and Madison and on U.S. 90. The proposed construction is subject to review under 40 CFR 52.21, Regulations for the Prevention of Significant Deterioration (PSD). Under these regulations, a modification to a source of air pollution in any one of 28 specified categories which will increase the emission potential of that source by more than 100 tons per year of any pollutant, is subject to review for each of those pollutants. One of these categories is fossil fuel-fired steam electric plants of more than 250 million BTU per hour heat input, of which the Suwannee Plant is one.

Paragraph (r) of the PSD regulations requires, in part, that EPA issue a Preliminary Determination whether the source should be approved, approved with conditions, or disapproved. On April 27, 1979, EPA made a Preliminary Determination that the proposed source could be approved with conditions. The Preliminary Determination was advertized for public comment in three local newspapers and placed on display at the Suwannee County Courthouse. The only comment received was from the applicant, regarding the restriction on yearly hours of operations.

After verbal discussion with Mr. W. W. Vierday, EPA determined that the applicant had further reviewed this condition and no longer objected to it. However, Mr. Vierday requested that the log required by Condition 6 be a monthly log (rather than hourly or daily) since the new units would be equipped with integrating meters measuring both hours of operation and fuel usage. This request has been granted, and Condition 6 is modified accordingly. All other conditions remain the same as those in the Preliminary Determination. It is the decision of EPA that the source should be approved with conditions. The conditions are included to insure that the applicant complies with emission control techniques and emission limits which are a part of the application. The conditions of approval follow on the next page.

Conditions for Florida Power Corporation's Proposed Suwannee
Park Peaking Units (Gas Turbines)

As required pursuant to 40 CFR 52.21(d)(2)(ii), a review was conducted to determine if the proposed peaking units would apply the best available control technology. Based on this review, it was determined that the applicant (Florida Power Corporation) must meet emission limits and other requirements as specified by the U.S. Environmental Protection Agency's Standard of Performance for Stationary Gas Turbines proposed on October 3, 1977 (40 CFR 60, Subpart GG).

Condition I. Standards for Nitrogen Oxides

On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not cause to be discharged into the atmosphere

(1) From any gas turbine with a heat rate at peak load of less than or equal to 14.4 kilojoules per watt hour, based on the lower heating value of the fuel fired, any gases which contain nitrogen oxides in excess of:

$$STD = 0.0075 \frac{14.4}{Y} + F$$

where:

STD = allowable NO_x emission (percent by volume at 15 percent oxygen and on a dry basis).

Y = manufacturer's rated heat rate at peak load (kilojoules per watt hour).

F = NO_x emission allowance for fuel-bound nitrogen as defined in part (3) of this paragraph.

(2) F shall be defined according to the nitrogen content of the fuel as follows:

Fuel-bound nitrogen (percent by weight)	F (NO _x by volume)
N < 0.015	0
0.015 < N < 0.1	0.04(N)
0.1 < N < 0.25	0.004 + 0.0067(N - 0.1)
N > 0.25	0.005

where:

N = the nitrogen content of the fuel (percent by weight).

Condition 2. Standard for Sulfur Dioxide

(a) On and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not cause to be discharged into the atmosphere from any stationary gas turbine any gases which contain sulfur dioxide in excess of a 0.015 percent by volume at 15 percent oxygen and on a dry basis.

(b) The sulfur content of the fuel fired by the gas turbine may be used to determine compliance with paragraph (a) of this section. Under such circumstances, on and after the date on which the performance test required to be conducted by 40 CFR 60.8 is completed, the applicant shall not burn in any stationary gas turbine any fuel which contains sulfur in excess of 0.8 percent by weight.

Condition 3. Monitoring of Operations

(a) If water injection is used to control NO_x emissions, the applicant shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within \pm 5.0 percent and shall be approved by the Administrator.

(b) The applicant shall record daily the sulfur content, nitrogen content, and lower heating value of the fuel being fired in the gas turbine.

(c) For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

(1) Nitrogen oxides. Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with 40 CFR 60.332 by the performance test required in 40 CFR 60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(a).

(2) Sulfur dioxide. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.

Condition 4. Stack Testing

(a) Within sixty (60) days after achieving the maximum production rate at which the source will be operated, but no later than 180 days after initial startup, the applicant shall conduct or cause to be conducted, performance test(s) and furnish the Administrator with a written report of the results of such performance test(s). The results of the performance test(s) shall be submitted to the Administrator within thirty (30) days of the completion of said testing.

(b) Nitrogen oxide and sulfur dioxide performance tests shall be conducted and data reduced in accordance with methods and procedures approved by the Administrator.

(c) The applicant shall provide the Administrator thirty (30) days prior notice of the date of the performance test(s) to afford the opportunity to have an observer present.

(d) All required continuous monitoring systems shall be installed, calibrated, and operating when the performance test(s) are conducted.

(e) The applicant shall provide performance test reports which comply with criteria more fully described in 40 CFR 60, Appendix A.

Condition 5. NO_x Emission Control System

The applicant must submit technical data to the Administrator within ten (10) working days after it becomes available pertaining to the selected NO_x emissions control system. These data would include, but not be limited to, a copy of the formal bid from the successful bidder, guaranteed efficiency or emission rate, and major design parameters such as water/fuel ratio. If "dry" control techniques are to be used, to control NO_x emissions, the applicant must submit test data and other appropriate information for existing similarly sized gas turbines (i.e., approximately 63 MW) to show that dry control techniques are capable of achieving emission limits given in Condition 1 above. The Administrator, upon review of these data, may revoke or modify this application if evaluation of these data is different from data in the application in such a way that it would cause the control system to be inadequate to meet the emission limits specified above.

Condition 6. The turbines shall not operate more than 1500 hours per year. A log shall be kept at the plant, showing hours of operation and the amount of fuel used. This log will be available for inspection at the plant at any time.

II. Background

On March 21, 1978, Florida Power Corporation submitted a letter and attachments to EPA to apply under the PSD regulations to construct four combustion turbines at the Suwannee Power Plant. On August 5, 1978, further information was submitted which completed the application. The proposed construction is subject to EPA Regulations for the Prevention of Significant Air Quality Deterioration promulgated on June 19, 1978.

III. Review Requirements

The pollutants for which potential emissions are greater than 100 tons per year, and therefore subject to review, are sulfur dioxide, nitrogen oxides and carbon monoxide. Review of control technology and ambient impacts is required.

Certain portions of the PSD review may not be required if the proposed modification is subject to EPA's interpretative ruling, or if the source is a nonprofit health or education institution, or if the source has previously received approval under PSD and is only relocating. None of these exemptions applies in this case.

Other exemptions can apply to control technology review and ambient impact review. For control technology review, if allowable emissions of any pollutant are less than 50 tons per year, 1000 pounds per day and 100 pounds per hour, or if a modification is made to an existing facility and the emissions are offset by reductions elsewhere, review may not be required. None of these exemptions applies.

For ambient impact review and monitoring requirements, other exemptions are provided for. In addition to the allowable emission threshold, there are exemptions for temporary sources and for sources whose net emissions, after considering decreases, do not increase. None of these exemptions apply to the proposed turbines.

The one exemption which does apply is for air quality monitoring. Since a complete application was submitted before August 7, 1978, no preconstruction monitoring is required.

A. Control Technology Review

The applicant is required to install best available control technology (BACT) for each pollutant, taking into account energy, environmental and economic impacts and other costs. EPA concludes that the systems proposed by the applicant represents BACT for SO₂ and nitrogen oxides. There is currently no applicable technology for reduction of carbon monoxide beyond what is accomplished in the combustion chamber.

l. Sulfur Dioxide

The applicant has proposed to burn 0.5% sulfur distillate fuel oil. At the time the application was submitted, EPA had proposed a revision to the New Source Performance Standards (40 CFR 60) for stationary gas turbines. Part of this revision includes a requirement for burning no fuel which contains sulfur in excess of 0.8 percent by weight. This requirement is considered BACT, and is included as a condition of approval.

2. Nitrogen Oxides

The applicant has proposed to limit nitrogen oxide emissions to 75 ppm (adjusted for heat rate and fuel-bound nitrogen) by water injection. At the time the application was submitted, EPA had proposed a revision to the New Source Performance Standards (40 CFR 60) for stationary gas turbines. Part of this revision includes a requirement to limit nitrogen oxide emissions to 75 ppm. This requirement represents BACT and is included as a condition of approval.

B. Applicability of NSPS

As of this date, EPA has proposed revisions to the New Source Performance Standards for stationary gas turbines. Any future promulgation which applies to stationary gas turbines and is more stringent than any condition of approval, will supercede the conditions of approval.

C. Impact Review

The PSD regulations require the following air quality impacts to be assessed by the applicant:

- 1) National Ambient Air Quality Standards (NAAQS)
- 2) PSD increments
- 3) Visibility, soils and vegetation
- 4) Impacts due to growth caused by proposed source

All of these impacts were assessed by the applicant. Air quality modelling showed no violations of the NAAQS with all sources in the area of the Suwannee in operation. Likewise, the PSD increment analysis showed no violations with the four turbines operating at maximum load.

The maximum predicted ambient concentrations with the proposed turbines in operation are presented in the following table:

Scenario	Concentrations (ug/m ³)		
	Sulfur Dioxide		
	Annual Average	24-Hour Maximum	3-Hour Maximum
Maximum Predicted 1981 Concentration in vicinity of Suwannee River Plant	10	184	851
State of Florida Standards	60	260	1300
Federal Secondary Standards	--	--	1300
Federal Primary Standards	80	365	--

The maximum consumption of the Class II PSD increments caused by proposed turbines are presented in the following table:

<u>Increment</u>	<u>Pollutant</u>
Annual	10%
24-Hour	11%
3-Hour	10%

Impacts on visibility, soils and vegetation and on air quality due to growth were judged to be minimal.

The closest Class I area is Okefenokee National Wildlife Refuge in Georgia, about 75 KM to the east-northeast from the plant site.

The maximum consumption of the Class I PSD increments caused by the proposed turbines are presented in the following table:

<u>Increment</u>	<u>Pollutant</u>
Annual	10%
24-Hour	40%
3-Hour	56%

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CONSTRUCTION PERMIT PROVISOS

AIR POLLUTION SOURCES

Permit No. AC61-11864

Date: Nov. 28, 1978
Revised: Feb. 5, 1979

- (X) 1. Construction of this installation shall be completed by November 1, 1980. Application for Permit to Operate to be submitted by February 1, 1981.
- (X) 2. This construction permit expires on May 1, 1981 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Department of Environmental Regulation Commission.
- (X) 3. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction.
- (X) 4. The applicant shall continue the retention of the engineer of record for the inspection of the construction of this project. Upon completion the engineer shall inspect for conformity to construction permit applications and associated documents. A report of such inspection shall be submitted by the engineer to the Department of Environmental Regulation for consideration toward the issuance of an operation permit.
- (X) 5. This peaking unit shall be tested* for SO₂ and NO_x (via continued on reverse side) within 60 days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted in duplicate to the Florida Department of Environmental Regulation, Gainesville Branch Office, 825 N.W. 23rd Ave., Suite G, Gainesville, FL 32601.
-
- * Fuel Analysis May be Submitted for Required Sulfur Dioxide Emission Test.
- (X) 6. The operation of this installation shall be observed for visible emissions in accordance with Method 9-Visible Determination of the Opacity of Emissions from Stationary Sources (36FR24895; Federal Register, December 23, 1971). The observation results are required prior to our issuance of an operation permit, and shall be submitted in duplicate to the Department of Environmental Regulation ~~District Office~~ Branch Office, 825 N.W. 23rd Ave., Suite G, Gainesville, FL 32601.
- (X) 7. Satisfactory ladders, platforms, and other safety devices shall be provided/available as well as necessary ports to facilitate the carrying out of an adequate sampling program.
- (X) 8. There shall be no discharges of liquid effluents or contaminated runoff from the plant site.
- (X) 9. All fugitive dust generated at this site shall be adequately controlled.

() 10. 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) 11. The emission limiting standards required by the FDER "BACT" determination are as follows:

Nitrogen Dioxide - 75 ppm by volume at 15 percent oxygen on a dry basis

and corrected in accordance with the Federal Register Vol. 42, No. 191 - Monday, October 3, 1977, paragraph 60.332.

Sulfur Dioxide - 95 ppm by volume corrected to 15 percent oxygen on a dry basis; or, 0.5 percent sulfur by weight in fuel, but the maximum allowed emission rate is not to exceed 379 lbs/hr SO₂ under any condition.

Opacity - less than 20 percent

(X) 12. Particulate Matter - maximum allowed emission rate is 38 lbs/hr.

(X) 5. (cont'd) in accordance with Reference Method 20 specified in the Federal Register Vol. 42, No. 191 - Monday, October 3, 1977, paragraph 60.335.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CONSTRUCTION PERMIT PROVISOS

AIR POLLUTION SOURCES

Permit No. AC61-11864

Date: 11/28/78

- (X) 1. Construction of this installation shall be completed by _____
November 1, 1980. Application for Permit to Operate to be
submitted by February 1, 1981.
- (X) 2. This construction permit expires on May 1, 1981 following
an initial period of operation for appropriate testing to deter-
mine compliance with the Rules of the Florida Department of
Environmental Regulation Commission.
- (X) 3. All applicable rules of the Department including design discharge
limitations specified in the application shall be adhered to. The
permit holder may also need to comply with county, municipal,
federal, or other state regulations prior to construction.
- (X) 4. The applicant shall continue the retention of the engineer of
record for the inspection of the construction of this project.
Upon completion the engineer shall inspect for conformity to con-
struction permit applications and associated documents. A re-
port of such inspection shall be submitted by the engineer to the
Department of Environmental Regulation for consideration toward
the issuance of an operation permit.
- (X) 5. This unit shall be tested* for SO₂ and NO_x (con't. on reverse
within sixty days side)
after it is placed in operation. These test results are required
prior to our issuance of an operation permit and shall be
submitted in duplicate to the Florida Department of Environmental
Regulation Gainesville Branch Office, 825 N.W. 23rd Ave., Suite G,
Gainesville, FL 32601
- * Fuel Analysis May be Submitted for Required Sulfur Dioxide
Emission Test.
- (X) 6. The operation of this installation shall be observed for visible
emissions in accordance with Method 9-Visible Determination of
the Opacity of Emissions from Stationary Sources (36FR24895;
Federal Register, December 23, 1971). The observation results
are required prior to our issuance of an operation permit, and
shall be submitted in duplicate to the Department of Environmental
Regulation District Office, Branch Office, 825 N.W. 23rd Ave., Suite G,
Gainesville, FL 32601
- (X) 7. Satisfactory ladders, platforms, and other safety devices shall
be provided/available as well as necessary ports to facilitate
the carrying out of an adequate sampling program.
- (X) 8. There shall be no discharges of liquid effluents or contaminated
runoff from the plant site.
- (X) 9. All fugitive dust generated at this site shall be adequately
controlled.

(X) 10. The emission limiting standards (based on a maximum total process input rate of 37,910 lb/hr of distillate fuel oil) required by the FDER BACT determination are as follows:

Nitrogen Dioxide - 75 ppm by volume at 15 percent oxygen on a dry basis

Sulfur Dioxide - 95 ppm by volume corrected to 15 percent oxygen on a dry basis or, 0.5 percent sulfur by weight in fuel

Opacity - less than 20 percent

(X) 11. Maximum allowed emission rate for sulfur dioxide is 379 lbs/hr and for particulate matter is 38 lbs/hr.

(X) 5. (con't.) in accordance with Reference Method 20 specified in the Federal Register Vol. 42, No. 191 - Monday, October 3, 1977, paragraph 60.335.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

CONSTRUCTION PERMIT PROVISOS

AIR POLLUTION SOURCES

Permit No. AC61-11863

Date: 11/28/78

- (X) 1. Construction of this installation shall be completed by November 1, 1980. Application for Permit to Operate to be submitted by February 1, 1981.
- (X) 2. This construction permit expires on May 1, 1981 following an initial period of operation for appropriate testing to determine compliance with the Rules of the Florida Department of Environmental Regulation Commission.
- (X) 3. All applicable rules of the Department including design discharge limitations specified in the application shall be adhered to. The permit holder may also need to comply with county, municipal, federal, or other state regulations prior to construction.
- (X) 4. The applicant shall continue the retention of the engineer of record for the inspection of the construction of this project. Upon completion the engineer shall inspect for conformity to construction permit applications and associated documents. A report of such inspection shall be submitted by the engineer to the Department of Environmental Regulation for consideration toward the issuance of an operation permit.
- (X) 5. This unit shall be tested* for SO₂ and NO_x (con't. on reverse side) within sixty days after it is placed in operation. These test results are required prior to our issuance of an operation permit and shall be submitted in duplicate to the Florida Department of Environmental Regulation Gainesville Branch Office, 825 N.W. 23rd Ave., Suite G, Gainesville, FL 32601.
- * Fuel Analysis May be Submitted for Required Sulfur Dioxide Emission Test.
- (X) 6. The operation of this installation shall be observed for visible emissions in accordance with Method 9-Visible Determination of the Opacity of Emissions from Stationary Sources (36FR24895; Federal Register, December 23, 1971). The observation results are required prior to our issuance of an operation permit, and shall be submitted in duplicate to the Department of Environmental Regulation District Office, Branch Office, 825 N.W. 23rd Ave., Suite G, Gainesville, FL 32601.
- (X) 7. Satisfactory ladders, platforms, and other safety devices shall be provided/available as well as necessary ports to facilitate the carrying out of an adequate sampling program.
- (X) 8. There shall be no discharges of liquid effluents or contaminated runoff from the plant site.
- (X) 9. All fugitive dust generated at this site shall be adequately controlled.

- (X) 10. The emission limiting standards (based on a maximum total process input rate of 37,910 lb/hr of distillate fuel oil) required by the FDER BACT determination are as follows:

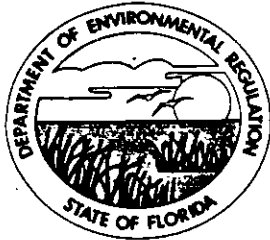
Nitrogen Dioxide - 75 ppm by volume at 15 percent oxygen on a dry basis

Sulfur Dioxide - 95 ppm by volume corrected to 15 percent oxygen on a dry basis or, 0.5 percent sulfur by weight in fuel

Opacity - less than 20 percent

- (X) 11. Maximum allowed emission rate for sulfur dioxide is 379 lbs/hr and for particulate matter is 38 lbs/hr.

- (X) 5. (con't.) in accordance with Reference Method 20 specified in the Federal Register Vol. 42, No. 191 - Monday, October 3, 1977, paragraph 60.335.



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED - RETURN RECEIPT

Dr. P.Y. Baynard, Director Environ. & Licens. Affrs.
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Dear Mr. Baynard:

Suwannee County - AP
Florida Power Corporation
Nos. 1,2 & 3 Peaking Units

Enclosed is Permit Number A061-189579* (Revised) to operate the subject air pollution source, pursuant to Section 403.087, Florida Statutes (FS).

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 substantial interests are affected by the Department's action or proposed action;

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

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

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

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

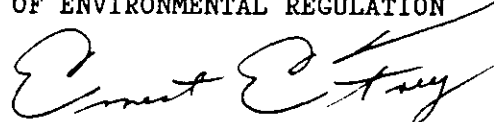
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard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

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

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION


Ernest E. Frey, P.E.
Deputy Assistant Secretary

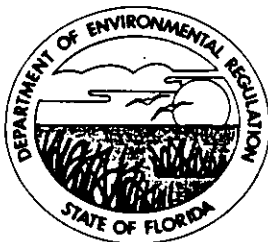
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Copies furnished to: Richard O. Frazee, P.E.

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged. 3-21-91
Dotty L. Allen Clerk Date

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 3/21/91 to the listed persons.



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304,05,06
Permit/Cert Number: A061-189579*
Date of Issue: February 14, 1991
Revised: 03-21-91
Expiration Date: March 3, 1996
County: Suwannee
Latitude/Longitude: 30°22'35"N; 83°10'50"W
Project: Nos. 1,2,&3 Peaking
Units
UTM: E-(17)290.5; N-3362.2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 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 Nos. 1,2,&3 Peaking Units (Combustion Turbines Model Turbo Power and Marine Systems FT4C-3 LF water injected twin pac).

*Similar sources with same permit no. and all of the conditions in this permit shall apply to each unit.

Located south of U.S. 90, on east bank of Suwannee River, Northwest of Live Oak, Suwannee County, Florida.

in accordance with:

Construction application dated 03-09-78
Certificate of Completion of Construction application dated 01-30-81
Renewal application dated 01-23-86
Renewal application received 11-20-90
Revision request dated 03-01-91

PERMITTEE:
Florida Power Corporation
Post Office Box 14042
Gainesville, Florida 32601

I.D. Number: 31JAX61000304,05,06
Permit/Cert: A061-189579*
Date of Issue:
Revised:
Expiration Date: August 07, 1996

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 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 Subsections 403.087(6) and 403.722(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 any 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 an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:
Florida Power Corporation
Post Office Box 14042
Gainesville, Florida 32601

I.D. Number: 31JAX61000304,05,06
Permit/Cert: A061-189579*
Date of Issue:
Revised:
Expiration Date: August 07, 1996

GENERAL CONDITIONS

- 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 Sections 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 noncompliance 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.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042
Gainesville, Florida 32601

I.D. Number: 31JAX61000304,05,06
Permit/Cert: A061-189579*
Date of Issue:
Revised:
Expiration Date: August 07, 1996

GENERAL CONDITIONS

13. This permit also constitutes:

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

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

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

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

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304,05,06
 Permit/Cert: A061-189579*
 Date of Issue: February 14, 1991
 Revised:
 Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Material</u>
739 MMBTU/hr ¹	No. 2 fuel oil ^{2,3}

¹Rate at 59°F (per ACP dated 03-09-78)
²Sulfur content shall not exceed 0.5% by weight (per BACT dated 08-16-78).
³Fired No. 2 fuel oil shall not exceed 127 bbls/hr at 59°F

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
NO _x ¹	17-2.630 ^{2,3}	210.22 ⁴	157.66 ⁵
SO ₂ ⁶	17-2.630 ^{7,8}	370.48 ⁹	277.86 ⁵
VE ¹⁰	17-2.630 ¹¹	< 20% opacity	

¹NO_x - nitrogen oxides
²BACT (as nitrogen dioxide) dated 08-16-78
³Also, FAC Rule 17-2.660 (NSPS adopted by ref: 40 CFR 60.332)
⁴Basis: 75 ppm by vol, dry; 1,255,500 ACFM; 726°; at 15% O₂; 30% moisture
⁵Basis: Hours of operation shall be limited to 1500 hrs per calendar year and shall be recorded.
⁶SO₂ - sulfur dioxide
⁷BACT dated 08-16-78
⁸Also, FAC Rule 17-2.660 (NSPS adopted by ref: 40 CFR 60.333)
⁹Basis: 95 ppm by vol, dry; 1,255,500 ACFM; 726°F; corrected to 15% O₂; 30% moisture
¹⁰VE - visible emissions
¹¹BACT dated 08-16-78

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304,05,06
Permit/Cert: A061-189579*
Date of Issue: February 14, 1991
Revised:
Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

5. Test the emission for the following pollutant(s) at the interval(s) indicated, notify the Department 14 days prior to testing, and submit the test report documentation to the Department within 45 days after completion of the testing:

<u>Pollutant</u>	<u>Interval</u>	<u>Test Method</u>
VE	12 months from 01-20-90	EPA 9 ¹
NO ₂	3 months from 10-30-90	(See SC #6)
SO ₂	3 months from 10-30-90	(See SC #6)

¹From Table 700-1, used EPA 9 since limit is same as General VE.

Tests and test reports shall comply with the requirements of Florida Administrative Code Rule 17-2.700(6) and (7), respectively.

6. Submit quarterly report for each source for the following within 30 days at the end of each quarter:
- Any one hour period during which water to fuel ratio falls below 0.526 for #1 unit, 0.486 for #2 unit, and 0.505 for #3 unit per 40 CFR 60.334(c)(1) for nitrogen oxides.
 - Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.5 percent by weight per FAC Rule 1702.700(6)(c)1.b.
 - For each period, the type, reasons and duration of the firing of the emergency fuel.
 - For each quarter, total hours of operation.
7. In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.
8. Submit an annual operation report for this source on the form supplied by the Department for each calendar year on or before March 1.
9. Any revision(s) to a permit (and application) must be submitted and approved prior to implementing.
10. The ID No. for this source is to be used on all correspondence.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

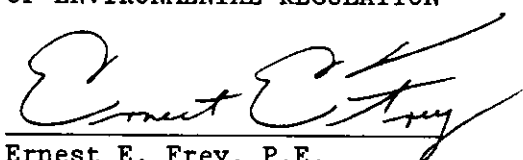
I.D. Number: 31JAX61000304,05,06
Permit/Cert: A061-189579*
Date of Issue: February 14, 1991
Revised:
Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

- 11. Forms for the renewal will be sent 5 months prior to 03-03-96 and the completed forms with test results are due 90 days prior to 03-03-96.

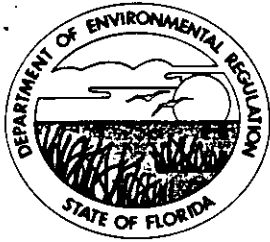
Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to S120.52 Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.
Betty Tamm 3-21-91
Clerk Date



file

Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED - RETURN RECEIPT

Dr. P.Y. Baynard, Director Environ. & Licens Affrs
Florida Power Corporation
Post Office Box 14042
St. Petersburg, Florida 33733

Dear Dr. Baynard:

Suwannee County - AP
Florida Power Corporation
Nos. 1, 2 & 3 Peaking Units

Enclosed is Permit Number A061-189579* to operate the subject air pollution source, pursuant to Section 403.087, Florida Statutes (FS).

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 substantial interests are affected by the Department's action or proposed action;

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

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

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

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

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

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

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

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

EEF:dhk

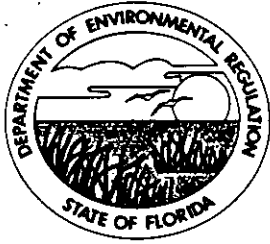
Copies furnished to: Richard O. Frazee, P.E.

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

Betty Larson 2/14/91
Clerk Date

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/14/91 to the listed persons.



Florida Department of Environmental Regulation

Northeast District • Suite B200, 7825 Baymeadows Way • Jacksonville, Florida 32256-7577

Lawton Chiles, Governor

Carol M. Browner, Secretary

PERMITTEE:

Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304,05,06
Permit/Cert Number: A061-189579*
Date of Issue: 02-14-91
Expiration Date: March 3, 1996
County: Suwannee
Latitude/Longitude: 30°22'35"N; 83°10'50"W
Project: Nos. 1,2,&3 Peaking
Units
UTM: E-(17)290.5; N-3362.2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 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 Nos. 1,2,&3 Peaking Units (Combustion Turbines Model Turbo Power and Marine Systems FT4C-3 LF water injected twin pac).

*Similar sources with same permit no. and all of the conditions in this permit shall apply to each unit.

Located south of U.S. 90, on east bank of Suwannee River, Northwest of Live Oak, Suwannee County, Florida.

In accordance with:

Construction application dated 03-09-78
Certificate of Completion of Construction application dated 01-30-81
Renewal application dated 01-23-86
Renewal application received 11-20-90

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

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 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 Subsections 403.087(6) and 403.722(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 any 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 an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

- 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 Sections 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 noncompliance 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.

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000303
Permit/Cert: A061-189581
Date of Issue:
Expiration Date: February 18, 1996

GENERAL CONDITIONS

13. This permit also constitutes:

- (X) 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)
- (X) Compliance with New Source Performance Standards

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

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

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

PERMITTEE:
 Florida Power Corporation
 Post Office Box 14042 (H2G)
 St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304
 Permit/Cert: A061-189579*
 Date of Issue:
 Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

1. The maximum input/rate (operating rate) is SEE BELOW and shall not be exceeded without prior approval.

<u>Rate</u>	<u>Material</u>
739 MMBTU/hr	No. 2 fuel oil ^{1,2}

¹Sulfur content shall not exceed 0.5% by weight (per BACT dated 08-16-78).

²Fired No. 2 fuel oil shall not exceed 127 bbls/hr

2. Testing of emissions must be performed at an operating rate of at least 90% of the rate in Specific Condition (SC) No. 1, or SC No. 3 will become effective.
3. The operating rate shall not exceed 110% of the operating rate during the most recent test except for testing purposes, but shall not exceed the rate in SC No. 1. After testing at an operating rate greater than 110% of the last test operating rate, the operating rate shall not exceed 110% of the last (submitted) test operating rate until the test report at the higher rate has been reviewed and accepted by the Department.
4. The maximum allowable emission rate for each pollutant is as follows:

<u>Pollutant</u>	<u>FAC Rule</u>	<u>lbs/hr</u>	<u>TPY</u>
NO _x ¹	17-2.630 ^{2,3}	210.22 ⁴	157.66 ⁵
SO ₂ ⁶	17-2.630 ^{7,8}	370.48 ⁹	277.86 ⁵
VE ¹⁰	17-2.630 ¹¹	< 20% opacity	

¹NO_x - nitrogen oxides

²BACT (as nitrogen dioxide) dated 08-16-78

³Also, FAC Rule 17-2.660 (NSPS adopted by ref: 40 CFR 60.332)

⁴Basis: 75 ppm by vol, dry; 1,255,500 ACFM; 726°; at 15% O₂; 30% moisture

⁵Basis: Hours of operation shall be limited to 1500 hrs per calendar year and shall be recorded.

⁶SO₂ - sulfur dioxide

⁷BACT dated 08-16-78

⁸Also, FAC Rule 17-2.660 (NSPS adopted by ref: 40 CFR 60.333)

⁹Basis: 95 ppm by vol, dry; 1,255,500 ACFM; 726°F; corrected to 15% O₂; 30% moisture

¹⁰VE - visible emissions

¹¹BACT dated 08-16-78

PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304
Permit/Cert: A061-189579*
Date of Issue:
Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

5. Test the emission for the following pollutant(s) at the interval(s) indicated, notify the Department 14 days prior to testing, and submit the test report documentation to the Department within 45 days after completion of the testing:

<u>Pollutant</u>	<u>Interval</u>	<u>Test Method</u>
VE	12 months from 01-20-90	EPA 9 ¹
NO ₂	3 months from 10-30-90	(See SC #6)
SO ₂	3 months from 10-30-90	(See SC #6)

¹From Table 700-1, used EPA 9 since limit is same as General VE.

Tests and test reports shall comply with the requirements of Florida Administrative Code Rule 17-2.700(6) and (7), respectively.

6. Submit quarterly report for each source for the following within 30 days at the end of each quarter:
- Any one hour period during which water to fuel ratio falls below 0.526 for #1 unit, 0.486 for #2 unit, and 0.505 for #3 unit per 40 CFR 60.334(c)(1) for nitrogen oxides.
 - Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.5 percent by weight per FAC Rule 1702.700(6)(c)1.b.
 - For each period, the type, reasons and duration of the firing of the emergency fuel.
 - For each quarter, total hours of operation.
7. In each test report, submit the maximum input/production rate at which this source was operated since the most recent test.
8. Submit an annual operation report for this source on the form supplied by the Department for each calendar year on or before March 1.
9. Any revision(s) to a permit (and application) must be submitted and approved prior to implementing.
10. The ID No. for this source is to be used on all correspondence.
12. Forms for the renewal will be sent 5 months prior to 03-03-96 and the completed forms with test results are due 90 days prior to 03-03-96.

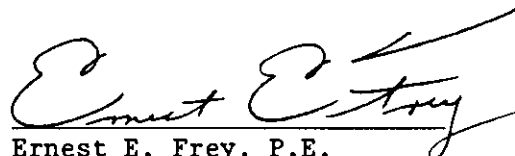
PERMITTEE:
Florida Power Corporation
Post Office Box 14042 (H2G)
St. Petersburg, Florida 33733

I.D. Number: 31JAX61000304
Permit/Cert: A061-189579*
Date of Issue:
Expiration Date: March 3, 1996

SPECIFIC CONDITIONS:

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL REGULATION



Ernest E. Frey, P.E.
Deputy Assistant Secretary

FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant to §120.52, Florida
Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged. 2/14/91
[Signature] Clerk Date

File

Florida Department of
Environmental Protection

Memorandum

TO: Chris Kirts, NED

FROM: Scott Sheplak, P.E. *sm*

DATE: July 28, 1997

SUBJECT: Completeness Review of an Application Package for a Title V Operation Permit
Florida Power Corporation, Suwannee River: 1210003-001-AV

Enclosed is an application package for a Title V operation permit that is being processed in Tallahassee. Please review the package for completeness and respond in writing by August 15, 1997, if you have any comments. Otherwise, no response is required.

It is very important to verify the compliance statement regarding the facility, since we do not have a readily effective means of determining compliance at the time the application was submitted. Please advise if you know of any emissions unit(s) that were not in compliance at that time and provide supporting information. You should have a copy on file of the original initial Title V permit application submittal. Also, please do not write on these documents.

If there are any questions, please call the project engineer, Cleve Holladay, at 904/488-1344 or SC: 278-1344.

RBM/bjb

Enclosure

cc: Bob Leech

*7/28 Reading File
Cleve Holladay*