

Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

DEP Files:

Virginia B. Wetherell Secretary

In the Matter of Applications for Permits by:

A052-253215A A052-253216A A052-253217A A052-253218A

Mr. W. Jeffrey Pardue, C.E.P. Manager - Environmental Florida Power Corporation Post Office Box 14042, MAC H2G St. Petersburg, Florida 33733

Pinellas County

NOTICE OF AMENDED PERMITS

Enclosed are amended air pollution operating permits A052-253215A, A052-253216A, A052-253217A and A052-253218A for the operation of the Bartow Peaking Units Nos. 1, 2, 3 and 4, located at Weedon Island, St. Petersburg, Florida, issued pursuant to Section 403.087, Florida Statutes.

These operation permits are being amended per the December 13, 1994 request from Mr. Scott Osbourn, Senior Environmental Engineer, Florida Power Corporation to change the compliance testing to 90-100% of the operating range for each turbine, to incorporate a corrected turbine heat input performance curve, and other changes.

SPECIAL NOTE: The Department is presently reviewing permitting guidance relative to testing of combustion turbines, and as a result of this review, the Department may develop and issue revised permitting guidelines in the future. Issuance of such revised policy or guidelines by the Department may cause these operational permits to be amended. Also, subsequent permitting of these sources per Chapter 62-213, Operation Permits for Major Sources of Air Pollution (Title V) will require an assessment of the applicability of Rule 62-296.700, F.A.C., Reasonably Available Control Technology (RACT), Particulate Matter.

Page 1 of 4

Mr. W. Jeffrey Pardue, C.E.P. Bartow Peaking Units 1,2,3 and 4 Florida Power Corporation

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

The Petition shall contain the following information;

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

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

Mr. W. Jeffrey Pardue, C.E.P. Bartow Peaking Units 1,2,3 and 4 Florida Power Corporation

These permit amendments are final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

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

Executed in Tampa, Florida.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

John J. Taylor, P.E. Air Permitting Engineer 3804 Coconut Palm Drive

Tampa, Florida 33619-8318 Phone: (813) 744-6100 x117

Enclosures

copy to: Mr. Gary Robbins, Environmental Manager,

Pinellas County Department of Environmental Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on _______ JUN 19 1995 _____ to the listed persons.

Clerk Stamp

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

(Clerk) JUN 19 1995 (Date)

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Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE:

Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/PROJECT:

Permit: A052-253218A

County: Pinellas

Original Issue: 11/23/95
Amended Date: 06/19/95
Expiration Date: 11-01-99
Project: Bartow Peaking Unit

No. 4

This amended permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 4 and is composed of a General Electric Company, Serial No. 335X118 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217712 gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-342.18 E 3082.87 N

NEDS No: 0011 Point ID: 08

Replaces Permit A052-253218, issued 11/23/94.

Page 1 of 8

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

1, A part of this permit is the attached GENERAL CONDITIONS. [Rule 62-4.160, F.A.C.]

2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

EMISSION LIMITATIONS

3. Visible emissions from Bartow Peaking Unit No. 4 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

OPERATION LIMITATIONS

- 4. The hours of operation for Bartow Peaking Unit No. 4 are not restricted (8760 hours per year). [Specified in permit application]
- 5. The peak heat input rate of the Bartow Peaking Unit No. 4 turbine shall be determined from the graph of Fuel Heat Input versus Ambient Temperature shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]
- 6. The Bartow Peaking Unit No. 4 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

TESTING AND COMPLIANCE REQUIREMENTS

7. Test the Bartow Peaking Unit No. 4 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test can be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued On Next Page)

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

7; (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).
[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

- 8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources Emission Monitoring and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]
- Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 on Page 8 of this permit. The graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 is made a part of this permit. If it is not practical to test at the peak rate, then the source may be tested at less than the peak rate. In this case, subsequent source operation is then limited to 110 percent of the tested rate until a new test is conducted. Once the source is so limited, the maximum rate is then equal to 110 percent of the tested rate, and operation at a higher rate is only allowed for no more than 15 consecutive days for the purpose of additional compliance testing in order to regain the peak rate. Acceptance of a test by the Department of Environmental Protection will automatically amend this permit to a new maximum rate, but the new maximum rate shall not exceed the peak rate. [Rules 62-297.570(2), 62-297.570(3), and 62-4.070(3), F.A.C.]

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

MONITORING REQUIREMENTS

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur limit of 0.5%, by weight is not exceeded, the permittee shall provide either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit A052-167175 and Rule 62-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content API Gravity Density Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167175 and Rule 62-4.070(3), F.A.C.]

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

NOTIFICATION REQUIREMENTS

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

REPORTING REQUIREMENTS

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, for the preceding calendar year. [Rule 62-210.370(3), F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors No. 2 Fuel Oil Pounds per MMBtu

Particulate Matter (PM)	0.061 (Total)
PM10	0.48PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued On Next Page)

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP-42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the original permit application the peak performance of the Bartow Peaking Unit No. 4. is:

Electrical Generating Rate: 55.7 MW per hour Heat Input Rate: 714.0 MMBtu per hour Fuel Usage Rate: 121.0 Barrels per hour

NOTE: For reference only, based on the original permit application, (714 MMBtu per hour) and AP-42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	<u>Pounds per Hour</u>	<u>Tons per Year</u>
Particulate Matter	(Total) 43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
Nitrogen Oxides	498.37	2182.87
Hydrocarbons (TOC)	12.14	53.17

- 14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:
- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Permit: A052-253218A

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

RECORDKEEPING REQUIREMENTS

15. Florida Power Corporation shall maintain a monthly record of the hours of operation of the peaking unit. This record shall be updated monthly and shall be completed by the end of the following month. The records shall be maintained at the facility for a minimum of the most recent three year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167175 and Rule 62-4.070(3), F.A.C.]

PERMIT RENEWAL

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

17. Florida Power Corporation is subject to the permitting requirements of Rule 62-213.420, F.A.C. - Operation Permits for Major Sources of Air Pollution, Permit Applications, and shall apply for a Title V operation permit by submitting a completed application, DEP Form 62-210.900(1), to the Division of Air Resources Management, Bureau of Air Regulation, Department of Environmental Protection (Tallahassee) by the appropriate date referenced in Rule 62-213.420(1)(a), F.A.C. The application shall include the test results from Specific Condition No. 16. A copy of the application and the test results from Specific Condition No. 16 shall also be submitted to the Air Permitting Section of the Southwest District Office (Tampa), the Department of Environmental Protection and to the Pinellas County Department of Environmental Management, Air Quality Division.

[Rules 62-4.090(1) and 62-213.420, F.A.C.]

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D.

Director of District Management

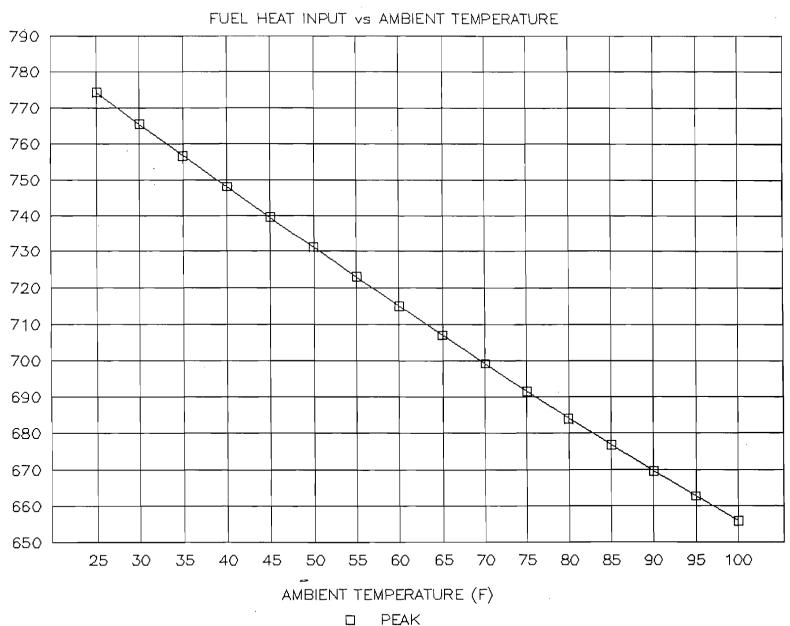
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HEAT INPUT (MBTU/HOUR)

Page 8 of 8

BARTOW COMBUSTION TURBINE



ATTACHMENT - GENERAL CONDITIONS:

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

GENERAL CONDITIONS:

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

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

GENERAL CONDITIONS:

- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 1/3. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards (NSPS)
- 14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.



Department of Environmental Protection

Lawton Chiles

Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

In the Matter of Applications for Permits by:

DEP Files: A052-253215 A052-253216 A052-253217 A052-253218

Mr. W. Jeffrey Pardue, C.E.P. Manager - Environmental Florida Power Corporation Post Office Box 14042, MAC H2G St. Petersburg, Florida 33733

Pinellas County

NOTICE OF PERMIT ISSUANCE

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Operating permits A052-253215, A052-253216, A052-253217 and A052-253218 replace permits A052-167173, A052-167174, A052-167175, and A052-167172, respectively, for the operation of the Bartow Peaking Units Nos. 1, 2, 3 and 4.

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

The Petition shall contain the following information;

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

Page 1 of 3

Mr. W. Jeffrey Pardue, C.E.P Bartow Peaking Units 1,2,3 and 4 Florida Power Corporation

- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
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Florida Power Corporation

Mr. W. Jeffrey Pardue, C.E.P Bartow Peaking Units 1,2,3 and 4

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

Executed in Tampa, Florida.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

John J. Taylor, P.E.

Air Permitting Engineer 3804 Coconut Palm Drive

Tampa, Florida 33619-8318 Phone: (813) 744-6100 x408

Enclosures

copy to: Mr. Gary Robbins, Environmental Manager

Pinellas County Department of Environmental Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on NOV 23 1994 to the listed persons.

Clerk Stamp

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

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Certified Mail Receipt
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Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE:

Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/PROJECT:

Permit: A052-253218
County: Pinellas

Expiration Date: 11-01-99
Project: Bartow Peaking Unit

No. 4

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. 4 and is composed of a General Electric Company, Serial No. 335X118 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217712 gas turbine. The manufacturer's rating for the turbine is 121 barrels per hour or 714 MMBtu per hour at an ambient air temperature of 59 °F. The maximum (peak) heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-342.18 km E 3082.87 km N

NEDS No: 0011 Point ID: 08

Replaces Permit A052-167172

Page 1 of 8

Permit: A052-253218

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

1. A part of this permit is the attached GENERAL CONDITIONS. [Rule 62-4.160, F.A.C.]

2. Issuance of this permit does not relieve the permittee from complying with applicable emission limiting standards or other requirements of Chapters 62-200 through 62-299, Florida Administrative Code, or any other requirements under federal, state or local law. [Rule 62-210.300, F.A.C.]

EMISSION LIMITATIONS

3. Visible emissions from Bartow Peaking Unit No. 4 shall not be equal to or greater than 20% opacity. [Rule 62-296.310(2)(a), F.A.C.]

OPERATION LIMITATIONS

- 4. The hours of operation for Bartow Peaking Unit No. 4 are not restricted (8760 hours per year). [Specified in permit application]
- 5. The maximum (peak) heat input rate of the Bartow Peaking Unit No. 4 turbine shall be determined from the graph of Fuel Heat Input versus Ambient Temperature shown on Page 8 of this permit using the daily average ambient temperature. [Rule 62-297.310(2)(a), F.A.C.]
- 6. The Bartow Peaking Unit No. 4 shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New" No. 2 fuel oil is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

TESTING AND COMPLIANCE REQUIREMENTS

7. Test the Bartow Peaking Unit No. 4 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test could be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if this peaking unit is not expected to use fuel oil for more than 400 hours during the next 12 months.

(Specific Condition No. 7, Continued on Next Page)

Permit: A052-253218

Project: Bartow Peaking Unit

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No. 4

SPECIFIC CONDITIONS:

7. (Continued)

In order to request the annual visible emissions test waiver, a letter shall be sent each year, when the visible emissions test is due, to the Air Compliance Section, Southwest District Office of the Department of Environmental Protection, and to the Pinellas County Department of Environmental Management, Air Quality Division, stating the number of hours that fuel oil was utilized, and that the requirements for approval of the waiver have been satisfied. Include a copy of the fuel oil analysis with the waiver request. Regardless of fuel usage, a waiver will not be granted for the visible emission test for the 12 month period prior to permit renewal. A visible emissions test is required and shall be conducted during the 12 month period prior to permit renewal. (See Specific Condition No. 16).

[Rules 62-297.340(1)(d) and 62-297.340(1)(e), F.A.C.]

- 8. Compliance with the visible emission limitation of Specific Condition No. 3 shall be determined using DEP Method 9 and shall be conducted by a certified observer and be a minimum of 60 minutes in duration. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Chapter 62-297, F.A.C., Stationary Sources Emission Monitoring and 40 CFR 60, Appendix A. [Rule 62-297.420, F.A.C.]
- 9. Testing of visible emissions shall be conducted with the turbine operating within 95-100% of the peak heat input rate based on the average ambient air temperature during the test. The peak heat input rate is defined by the graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 on Page 8 of this permit. The graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 is made a part of this permit. A copy of the graph noting the actual heat input rate and the average ambient temperature during the compliance test shall be included in the compliance test report. [Rule 62-4.070(3), F.A.C.]

Permit: A052-253218

Project: Bartow Peaking Unit

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No. 4

SPECIFIC CONDITIONS:

MONITORING REQUIREMENTS

10. In order to document compliance with Specific Condition No. 6, and provide reasonable assurance that new, No. 2 fuel oil is being utilized and that the fuel oil sulfur content limit of 0.5%, by weight, is not exceeded, the permittee shall provide, for each fuel oil delivery, either:

- (1) a fuel oil analysis from a fuel oil sample, indicating the sulfur content. The fuel oil analysis shall be determined by the ASTM D-129 method referenced in 40 CFR 60.17 (July 1, 1991), or a Department approved alternate test method, or
- (2) a certification of fuel oil analysis, indicating the sulfur content, obtained from the fuel oil supplier for the fuel oil delivered.

This information shall be maintained for a minimum of the most recent two year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, upon request. [Permit A052-167172 and Rule 17-4.070(3), F.A.C.]

11. In order to provide reasonable assurance that the fuel oil supplier's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the calendar year period. The fuel oil analysis shall be analyzed for the following:

Btu content API Gravity Density Sulfur content, percent by weight

An audit sample analysis is not required in any calendar year for which the oil supplier certifications were not used to demonstrate compliance with the fuel oil sulfur limitation. Records must be kept for a minimum of the most recent two year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit AO52-167172 and Rule 62-4.070(3), F.A.C.]

Permit: A052-253218

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

NOTIFICATION REQUIREMENTS

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

REPORTING REQUIREMENTS

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-213.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year.

[Rule 62-210.370(2)(a)1., F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors No. 2 Fuel Oil Pounds per MMBtu

Particulate Matter (PM)	0.061 (Total)
PM10	0.048PM
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued on Next Page)

Permit: A052-253218

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

13. (Continued)

's' denotes sulfur content, percent by weight. The sulfur dioxide emissions shall be based on a weighted 12 month average 's' value. [Emission factors from AP 42, Table 3.1-1 (7/93)]

NOTE: For reference only, based on the manufacturer's rated maximum heat input rate of 714 MMBtu per hour and AP 42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

	Pounds per Hour	Tons per Year
Particulate Matter	(Total) 43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1579.30
Nitrogen Oxides	498.37	2182.87
Hydrocarbons (TOC)	12.14	53.17

- 14. Submit a copy of the visible emissions test reports required by Specific Condition Nos. 7 and 16, to the Pinellas County Department of Environmental Management, Air Quality Division, within 45 days of testing. Each test report shall include:
- (1) a statement of the maximum turbine performance based on the turbine performance criteria defined by Specific Condition No. 5;
- (2) a copy of the graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 4 noting the maximum heat input and the ambient temperature during the compliance test; and
- (3) a copy of the fuel oil analysis.

[Rules 62-297.570(2), and 62-297.570(3), F.A.C.]

Permit: A052-253218

Project: Bartow Peaking Unit

No. 4

SPECIFIC CONDITIONS:

RECORDKEEPING REQUIREMENTS

15. Florida Power Corporation shall maintain a monthly record of the hours of operation of the peaking unit. This record shall be updated monthly and shall be completed by the end of the following month. The records shall be maintained at the facility for a minimum of the most recent two year period and shall be made available to the Department and the Pinellas County Department of Environmental Management, Air Quality Division, upon request. [Permit A052-167172 and Rule 62-4.070(3), F.A.C.]

PERMIT RENEWAL

16. A visible emissions test must be conducted, per Specific Condition No. 3, during the 12 month period prior to permit renewal. [Rule 62-297.340(1)(c), F.A.C.]

17. Three applications to renew this operating permit, and the test results from Specific Condition No. 16, shall be submitted to the Air Section of the Southwest District Office of the Department of Environmental Protection, and one application, and the test results from Specific Condition No. 16 shall be submitted to the Pinellas County Department of Environmental Management, Air Quality Division, by September 1, 1999 (60 days prior to the expiration date of this permit). [Rule 62-4.090(1) and 62-213.420, F.A.C.]

NOTE: The permit renewal requirements of Rule 62-213.420, F.A.C. - Operation Permits for Major Sources of Air Pollution, Permit Applications, are applicable to this source.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Richard D. Garrity, Ph.D.

Director of District Management

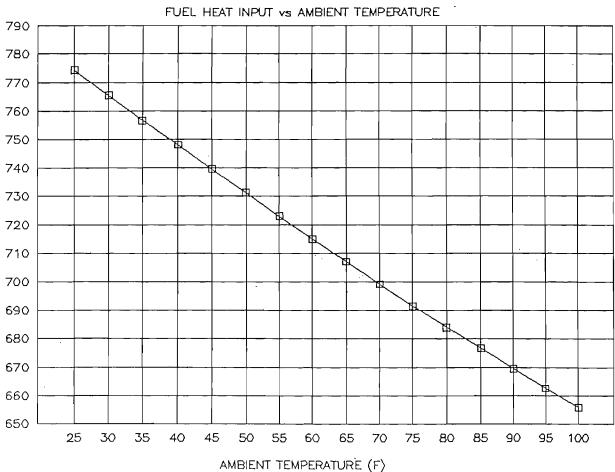
Southwest District

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FLOW (MBTU/HOUR)

FUEL

BARTOW - COMBUSTION TURBINE



PEAK

ATTACHMENT - GENERAL CONDITIONS:

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

GENERAL CONDITIONS:

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

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - a. a description of and cause of non-compliance; and
 - b. the period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

GENERAL CONDITIONS:

- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Compliance with New Source Performance Standards (NSPS)
- 14. The permittee shall comply with the following:
 - a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
 - c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.
- 15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

(Filled in by DEP)	
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APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.				
Source Type:Combustion Turbine	Renewal of DER Permit No. A0-52-167172			
Company Name: Florida Power Corporation	County: Pinellas			
dentify the specific emission point source(s) addressed in this application (i.e., Lime iln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired): Bartow Peaking Unit #4				
Source Location: Street: Weedon Island UTM: East 342180	City: St. Petersburg North 3082870			
Latitude: 2 7° 5 1' 3 5"N.	Longitude: 8 2° 3 6' 0 9'W.			

- Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
 No fee required.
- 2. Have there been any alterations to the plant since last permitted? [] Yes [x] No If minor alterations have occurred, describe on a separate sheet and attach.
- 3. Attach the last compliance test report required per permit conditions if not submitted previously. Compliance test performed on January 18, 1994
- 4. Have previous permit conditions been adhered to? [x] Yes [] No If no, explain on a separate sheet and attach.
- 5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [] Yes [] No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach. $_{\rm N/A}$
- 6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [] Yes [] No N/A
- 7. Has the annual operating report for the last calendar year been submitted? [x] Yes [] No If no, please attach.

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

Page 1 of 2

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

Description	Conteminent	Utilization
	Type %Wt	Rete lbs/hr

Fuels

Туре	Consumption*		Maximum Heat	
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/hr)	
No. 2 Fuel Oil	121	121	√~ 714 ¹	
			·	

D.	Normal Equipment Operating Time:	hrs/day 24 ; days/wk 7 ; wks/yr 52 ;
	hrs/yr (power plants only) 8760	; if seasonal, describe

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

*During	actual	time	οf
operat	ion.		

**Units: Natural Gas-MMCF/hr; Fuel Dils-barrels/hr; Coallbs/hr.

**Attach letter of authorization if not previously submitted

¹Based on 59°F reference temperature

DER Form 17-1.202(4)

rrective	OFFICIAL NOTARY SEAL
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maryjane r bl.ain NOTARY PUBLIC STATE OF FLORIDA COMMISSION NO. CC373234 MY COMMISSION EXP. JUNE 3,1998

	Not your to				
ignature, Owner	01 4	Author	ized	Represen	tative
(Notari	zatio	on is	manda	tory)	

W. Jeffrey Pardue, C.E.P., Manager-Environmental Typed Name and Title Programs

P. O. Box 14042, MAC H2G

Address

St. Petersburg, FL

City 20 June 1994

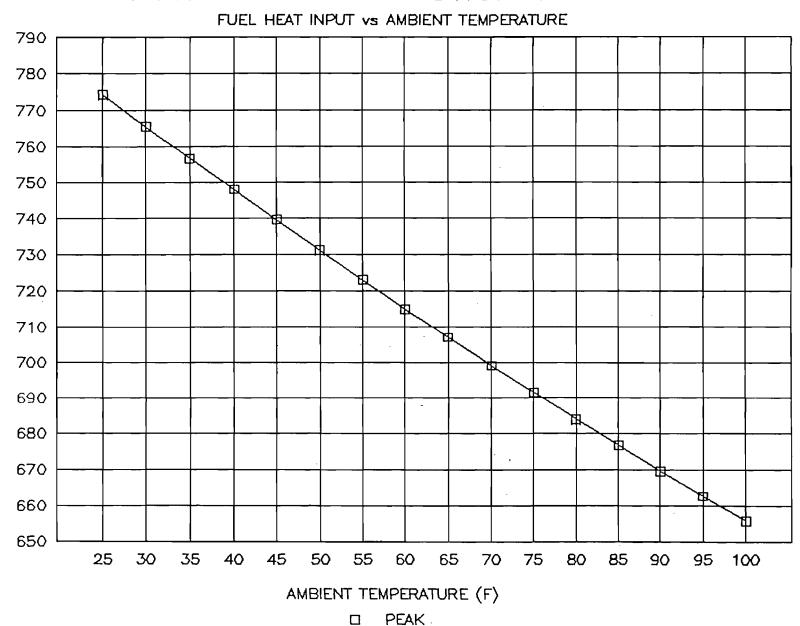
State Zip <u>(813) 866-4387</u>

Telephone No.

Page 2 of 2

nessed before me this 20th day of June 1994. Mayone R. Blann

BARTOW P4 COMBUSTION TURBINE





Florida Department of Environmental Regulation

Southwest District ● 4520 Oak Fair Boulevard ● Tampa, Florida 33610-7347 ● 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

January 26, 1990

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION
NOTICE OF PERMIT ISSUANCE

Mr. J. A. Hancock Vice President, Fossil Operations Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 DER File No.: A052-167172

County: Pinellas

Enclosed is Amended Permit Number A052-167172 to operate the Bartow Peaking Unit No. 4, issued pursuant to Section 403.087, Florida Statutes.

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

The Petition shall contain the following information;

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

Page Two

Mr. J. A. Hancock St. Petersburg, Florida 33733

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

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

This permit amendment is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department. When the Order (Permit Amendment) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Mr. J. A. Hancock St. Petersburg, Florida 33733 Page Three

Executed in Tampa, Florida

Singerely

George W. Richardson Air Permitting Engineer

RDG/gr

cc: Pinellas County Department of Environmental Management

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and all copies were mailed before the close of business on $\underline{\sf JAN~2~6~1990}$ to the listed persons.

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

Clerk

JAN 2 6 1990

Date



Florida Department of Environmental Regulation

Southwest District ● 4520 Oak Fair Boulevard ● Tampa, Florida 33610-7347 ● 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary
Dr. Richard Garrity, Deputy Assistant Secretary

PERMITTEE: Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/CERTIFICATION
Permit No.: A052-167172
County: Pinellas

Expiration Date: 8-21-94 Project: Bartow Peaking

Unit No. 4

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

For the operation of an oil fired, gas turbine driven electrical generating unit designated as Peaking Unit No. 4. The peaking unit is composed of a General Electric Company, Serial No. 335X118 electric generator driven by a General Electric Company Model MS 7000, Serial No. 217712 gas turbine. The turbine is fired on new No. 2 fuel oil at a maximum rate of 121 barrels/hour or 714 MMBTU/hour. The unit is rated at a maximum electrical generating capacity of 55.7 MW.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-342.2 E 3082.9 N NEDS NO: 0011 Point ID: 08

Replaces Permit No.: A052-89902

PERMITTEE: Permit/Certification No.: A052-167172 Florida Power Corporation Project: Bartow Peaking Unit No. 4 SPECIFIC CONDITIONS: A part of this permit is the attached 15 General Conditions. Visible emissions from this peaking unit shall not be equal to or oreater than 20% opacity in accordance with Subsection 17-2.610(2)(a). F.A.C. 3. The turbines shall be fired on new No. 2 fuel oil. The term new fuel oil means an oil that has been refined from crude oil and has not been used and which may or may not contain additives. Test the peaking unit for visible emissions within 30 days of startup and annually, thereafter between the dates of December 1. and February 28, if the peaking unit operated more than 400 hours during the preceding 12 month period, pursuant to Subsection 17-2.700(2)(a)8. F.A.C. Submit a copy of test data to the Air Sections of the Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division within forty-five (45) days of such testing (Section 17-2.700(2) Florida Administrative Code (F.A.C.). 5. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method No. 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700. F.A.C. and 40 CFR 60, Appendix A. The Method 9 visible emission compliance test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration. 6. The Pinellas County Department of Environmental Management, Air Quality Division shall be notified in writing at least 15 days prior to any compliance testing. 7. Maintain monthly records on site for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per calendar year, submit these records in lieu of testing to this office and the Pinellas County Department of Environmental Management, Air Quality Division. 8. Fuel oil quality is to be analyzed prior to each delivery. fuel oil sample is to be analyzed for the following and the analysis kept on site for future inspections: a. BTU content b. API Gravity Density c. d. Sulfur Content by weight as per Subsection 403.061(13), Florida Statutes. DER Form 17-1.201(5) Page 2 of 3.

PERMITTEE: Florida Power Corporation Permit/Certification No.: A052-167172 Project: Bartow Peaking Unit No. 4

- 9. Compliance testing of emissions shall be accomplished while operating the peaking unit at 100% $\pm 10\%$ of the permitted capacity stated in Specific Condition No. 10. A compliance test submitted at operating rates less than 90% of the permitted capacities will automatically constitute an amended permit at the lesser rate. The permittee shall submit a statement of the operating mode and a copy of the fuel oil analysis as a part of the compliance test. Failure to submit the operating mode statement, fuel oil analysis and actual operating conditions may invalidate the test (Section 403.161(1)(c), Florida Statutes).
- 10. Based on the application submitted for this peaking unit it is permitted to operate at 43 MW/hour and 66 barrels/hour of new No. 2 fuel oil. If the peaking unit exceeds this permitted level by more than 10%, a compliance test must be conducted within 15 days, following Specific Conditions No. 4, 5 and 6.
- 11. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following:
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions for particulates, PM_{10} , carbon monoxide, SO_2 , and NO_x based on fuel use, operating hours, and fuel analysis (provide a copy of the calculation sheet(s) and basis for calculations).
- (C) Any changes in the information contained in the permit application.

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

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

Issued this 28th day of September

Amended this

Dday of_

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard D. Garri/ty, Ph.D. Deputy Assistant Secretary GENERAL CONDITIONS

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to the authority of Section 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
- 3. As provided in Subsections 403.087(6) and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal or plant life or property caused by the construction or operation of this permitted source or from penalties therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by any order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credential or other documents as maybe required by law and at reasonable times, access to the premises, where the permitted activity is located or conducted:

GENERAL CONDITIONS (con't):

- 7. (con't):
- a. Have access to and copy any records that must be kept under the conditions of the permit;

- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department (17-6.130) with the following information:
- (a) a description of and cause of noncompliance; and
- (b) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 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 Procedures and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

. GENERAL CONDITIONS (con't): This permit or a copy thereof shall be kept at the work site of the permitted activity. 13. This permit also constitutes: () Determination of Best Available Control Technology (BACT) () Determination of Prevention of Significant Deterioration (PSD) () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500) () Compliance with New Source Performance Standards 14. The permittee shall comply with the following: Upon request, the permittee shall furnish all records and plans required under Department rules. During enfocement actions, the retention period for all records will be extended automatically, unless otherwise stipulated by the Department. 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. 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. Records of monitoring information shall include: c. -the date, exact place, and time of sampling or measurement; -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. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.



Florida Department of Environmental Regulation

Southwest District ● 4520 Oak Fair Boulevard ● Tampa, Florida 33610-7347 ● 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary Richard Garrity, Deputy Assistant Secretary

September 28, 1989

NOTICE OF PERMIT

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

Dear Mr. Hancock:

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

Enclosed is Permit Number AD52-167172 to operate the Bartow Peaking Unit No. 4, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within the fourteen (14) days constitutes a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes. This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with this paragraph or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, FAC. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

Mr. J. A. Hancock

St. Petersburg, Florida: 33733

Page Two

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

Executed in Tampa, Florida.

Singerely

George W. Richardson Air Permitting Engineer

GWR/qr

cc: Pinellas County Department of Environmental Management

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on $\underline{\text{SEP 2 8 1989}}$ to the listed persons.

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

SEP 2 8 1989

Date



Florida Department of Environmental Regulation

Southwest District ● 4520 Oak Fair Boulevard ● Tampa, Florida 33610-7347 ● 813-623-5561

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary Richard Garrity, Deputy Assistant Secretary

PERMITTEE: Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/CERTIFICATION Permit No.: A052-167172

County: Pinellas

Expiration Date: 8-21-94 Project: Bartow Peaking

Unit No. 4

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

For the operation of an oil fired, gas turbine driven electrical generating unit designated as Peaking Unit No. 4. The peaking unit is composed of a General Electric Company, Serial No. 335X118 electric generator driven by a General Electric Company Model MS 7000, Serial No. 217712 gas turbine. The turbine is fired on new No. 2 fuel oil at a maximum rate of 121 barrels/hour or 714 MMBTU/hour. The unit is rated at a maximum electrical generating capacity of 55.7 MW.

Location: Weedon Island, St. Petersburg, Pinellas County

17-342.2 E 3082.9 N NEDS NO: Point ID: UTM: 0011 08

Replaces Permit No.: A052-89902

DER Form 17-1.201(7) Page 1 of 3.

PERMITTEE:
Permit/Certification No.: A052-167172
Project: Bartow Peaking Unit No. 4

SPECIFIC CONDITIONS

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

2. Visible emissions from this peaking unit shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.

3. The turbines shall be fired on new No. 2 fuel oil. The term new fuel oil means an oil that has been refined from crude oil and has not been used and which may or may not contain additives.

4. Test the peaking unit for visible emissions within 30 days of startup and annually thereafter, if the peaking unit operated more than

4. Test the peaking unit for visible emissions within 30 days of startup and annually thereafter, if the peaking unit operated more than 400 hours during the preceding 12 month period, pursuant to Subsection 17-2.700(2)(a)8., F.A.C. Submit a copy of test data to the Air Sections of the Southwest District Office and the Pinellas County Department of Environmental Management within forty-five days of such

testing (Section 17-2.700(2), Florida Administrative Code (F.A.C.)).

- 5. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method No. 9 contained in 40 CFR 60, Appendix A and adopted by reference in Section 17-2.700, F.A.C. The minimum requirements for stack sampling facilities, source sampling and reporting, shall be in accordance with Section 17-2.700, F.A.C. and 40 CFR 60, Appendix A. The Method 9 visible emission compliance test shall be conducted by a certified observer and be a minimum of sixty (60) minutes in duration.
- 6. The Pinellas County Department of Environmental Management, Air Quality Division shall be notified in writing at least 15 days prior to any compliance testing.
- 7. Maintain monthly records for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per Specific Condition No. 4, submit these records at twelve month intervals from the date this peaking unit was tested to this office and the Pinellas County Department of Environmental Management, Air Quality Division in lieu of the visible emission compliance test.
- 8. Fuel oil quality is to be monitored prior to delivery and a sample taken for each day of operation for a monthly composite analysis. The monthly fuel oil composite sample is to be analyzed for the following:
 - a. BTU content
 - b. API Gravity
 - c. Density
 - d. Sulfur Content by weight

as per Subsection 403.061(13), Florida Statutes.

DER Form 17-1.201(5) Page 2 of 3.

PERMITTEE: Florida Power Corporation Permit/Certification No.: A052-167172 Project: Bartow Peaking Unit No. 4

- 9. Compliance testing of emissions shall be accomplished while operating the peaking unit at 90--100% of the permitted capacity stated in Specific Condition No. 10. A compliance test submitted at operating rates less than 90% of the permitted capacities will automatically constitute an amended permit at the lesser rate. The permittee shall submit a statement of the operating mode and a copy of the fuel oil analysis as a part of the compliance test. Failure to submit the operating mode statement, fuel oil analysis and actual operating conditions may invalidate the test (Section 403.161(1)(c), Florida Statutes).
- 10. Based on the compliance test to be conducted within 30 days of startup, this peaking unit is permitted to operate at 90-100% of the operating rate during the compliance test. If the peaking unit exceeds this permitted level by 10%, a compliance test must be conducted within 10 days, following Specific Conditions No. 4, 5 and 6.
- 11. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following:
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions for particulates, PM_{10} , carbon monoxide, SO_2 , and NO_x based on fuel use, operating hours, and fuel analysis (provis a copy of the calculation sheet(s) and basis for calculations).
- (C) Any changes in the information contained in the permit application.

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

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

Issued this 27day of 5t-

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard D. Garrity/ Ph.D. Deputy Assistant Secretary

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and are binding and enforceable pursuant to the authority of Section 403.141, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
- 3. As provided in Subsections 403.087(6) and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal or plant life or property caused by the construction or operation of this permitted source or from penalties therefore, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by any order from the Department.
- 6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- 7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credential or other documents as maybe required by law and at reasonable times, access to the premises, where the permitted activity is located or conducted:

GENERAL CONDITIONS (con't):

- 7. (con't):
- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

- 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department (17-6.130) with the following information:
- (a) a description of and cause of noncompliance; and
- (b) the period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the Department, may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 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 Procedures and appropriate evidentiary rules.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- 11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-30.300, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

GENERAL CONDITIONS (con't):

- 12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
 - () Compliance with New Source Performance Standards
- 14. The permittee shall comply with the following:
- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enfocement actions, the retention period for all records will be extended automatically, unless otherwise stipulated by the Department.
- 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. These materials shall be retained at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
- -the date, exact place, and time of sampling or measurement;
- -the person responsible for performing the sampling or measurements;
- -the date(s) analyses were performed;
- -the person responsible for performing the analyses;
- -the analytical techniques or methods used; and
- -the results of such analyses.
- 15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

A052-167172

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING 2500 BLAIR STONE ROAD TALLAHASSEE, FLORIDA 32301



D. E. R

BOB GRAHAM GOVERNOR

VICTORIA L TSCHINKEL

JU[\$6 1989

SOUTHWEST DISTRICT TAMPA

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

Permit Applicati	•	abbileaur auguld comblete the Standard Wil
Source Type: Cor	mbustion Turbine	Renewal of DER Permit No. A0-52-89902
Company Name: $\underline{F1}$	orida Power Corporation	County: Pinellas
	cific emission point source(s) Yenturi Scrubber; Peaking Unit	addressed in this application (i.e., Lime No. 2, Gas Fired):
Bartow Peaking	Unit #4	
Source Location:	Street: Weedon Island	City: St. Petersburg
UTH: East	342180	North 3082870
Latitude:	2 7 ° 5 1 ' 3 5 "N.	Longitude: 8 2 * 3 6 * 0 9 * X.
. :		

- 1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05. Ch17-4.050(4)(a)(2)(b) \$750
- 2. Have there been any alterations to the plant since last permitted? [] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.
- 3. Attach the last compliance test report required per permit conditions if not submitted previously.
- 4. Have previous permit conditions been adhered to? [X] Yes [] No. If no, explain on a separate sheet and attach.
- 5. Has there been any malfunction of the pollution control equipment during tenure of current permit? [] Yes [X] No. If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
- 6. Has the poliution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [] No
- 7. Hes the annual operating report for the last calendar year been submitted? [X] Yes

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

Page 1 of 2

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

Description	Contaminant Type SWt	Utilization Rate lbs/hr
· .		
	A Section 1997	

B	Product	Walaht 6	(lbs/hr):
	rroquet	Merdur (702/05/1

C. Fuels

Type (Be Soecific)	Consumpt Avg/hr+	ion* Hax/hr**	Maximum Heat Inout (MHBTU/hr)
No. 2 Fuel Oil	121	121	714
•			- - · · ·
			•

D.	Normal	Equipme	nt Opes	eting Time	e: hrs/day <u>2</u>	4'; days/wk	7;	wks/yr <u>52</u>	.;
	hrs/yr	(power	plants	only) 8760	; if seesone	l, describe			
									
		•		•					

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

*During actual time of operation.

**Units: Natural Gas-MMCF/hr; Fuel Gils-barrels/hr; Coal-lbs/hr,

**Attach letter of authorization if not previously submitted

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

MINU.		- Mary Chan		, ii
Signature, Owner	or Authoria	zed SR Epges	en tation	4
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St Paterchura	_	Florida	ຊຊ∯ີຊື່ ^ນ ັ	7.

(813)866-4524 Telephone/No.

Ly aren't

NOTARY PUBLIC STATE OF FLORIDA MY COMMISSION EXP JUNE 17,1991. BONDED THRU GENERAL INS. UND.

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 3**01** NORTH TAMPA, FLORIDA 33610-9544



November 6, 1984

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DR. RICHARD D. GARRITY DISTRICT MANAGER

Mr. R. E. Parnelle, Manager Environmental Operations Florida Power Corporation Post Office Box 14042 St. Petersburg, FL 33733

Re: Pinellas County - AP

Florida Power Corporation Bartow Peaking Unit #4

A052-89902

Dear Mr. Parnelle:

In response to your letter dated October 9, 1984, concerning Specific Condition No. 6 which established the maximum sulfur content of the fuel, the Department hereby amends permit number A052-89902 as follows:

From: Specific condition No. 6: This unit must be fired on No. 2 fuel

oil with a maximum sulfur content of 0.5%

To: Specific Condition No. 6: This unit must be fired on No. 2 fuel

oil.

This letter must be attached to and becomes a part of said permit.

Sincerely,

W. C. Thomas, P.E. District Engineer

Air Programs

JWE/scm

cc: PCDEM

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610-9544



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DR. RICHARD D. GARRITY DISTRICT MANAGER

October 5, 1984

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

Dear Mr. Hancock:

Re: Pinellas County - AP
Bartow Peaking Unit #4

Attached is Permit No. AO52-89902. Should you object to the issuance of this permit or the specific conditions of the permit, you have a right to petition for a hearing pursuant to the provisions of Section 120.57, Florida Statutes. The petition must be filed within fourteen (14) days from receipt of this letter. The petition must comply with the requirements of Section 17-103.155 and Rule 28-5.201, Florida Administrative Code, (copies attached) and be filed pursuant to Rule 17-103.155(1) in the Office of General Counsel of the Department of Environmental Regulation at 2600 Blair Stone Road, Tallahassee, Florida 32301. Petitions which are not filed in accordance with the above provisions are subject to dismissal by the Department.

In the event a formal hearing is conducted pursuant to Section 120.57(1), all parties shall have an opportunity to respond, to present evidence and argument on all issues involved, to conduct cross-examination of witnesses and submit rebuttal evidence, to submit proposed findings of facts and orders, to file exceptions to any order or hearing officer's recommended order, and to be represented by counsel.

If an informal hearing is requested, the agency, in accordance with its rules of procedure, will provide affected persons or parties or their counsel an opportunity, at a convenient time and

Mr. J. A. Hancock St. Petersburg, FL

Page Two

place, to present to the agency or hearing officer, written or oral evidence in opposition to the agency's action or refusal to act, or a written statement challenging the grounds upon which the agency has chosen to justify its action or inaction, pursuant to Section 120.57(2), Florida Statutes.

Sincerely,

Richard D. Garrity Ph

District Manager

JLM/scm

Attachment: as stated

cc: PCDEM

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610-9544



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DR. RICHARD D. GARRITY DISTRICT MANAGER

PERMITTEE: Mr. J. A. Hancock Vice President, Fossil Operations Florida Power Corporation Post Office Box 14042 St. Petersburg, FL 33733 PERMIT/CERTIFICATION
Permit No.: A052-89902

County: Pinellas

Expiration Date: 9/11/89 Project: Bartow Peaking

Unit #4

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the 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 a combustion turbine peaking unit burning No. 2 fuel oil at a maximum rate of 121 barrels/hr.

Location: Weedon Island, St. Petersburg

UTM: 17-342.2E 3082.9N NEDS NO: 0011 Point ID: 08

Replaces Permit No.: A052-22555

DER Form 17-1.201(7) Page 1 of 6.

PERMITTEE: Permit/Certification No.: AO52-89902 Florida Power Corporation Project: Bartow Peaking Unit #4

GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate the enforcement action for any violation of the "Permit Conditions" by the permittee, its 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 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

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

PERMITTEE: Permit/Certification Number: A052-89902 Florida Power Corp. Project: Bartow Peaking Unit #4 6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of; a. Having access to and copying any records that must be kept under the conditions of the permit: b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules. Reasonable time may depend on the nature of the concern being investigated. 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;

(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.

DER Form 17-1.201(7) Page 3 of 6.

PERMITTEE: Permit/Certification No: AO52-89902 Florida Power Corporation Project: Bartow Peaking Unit #4

- 9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.
- 10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
- 12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
- 13. This permit also constitutes:
 - () Determination of Best Available Control Technology (BACT)
 - () Determination of Prevention of Significant Deterioration (PSD)
 - () Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)
 - () Compliance with New Source Performance Standards
- 14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

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

PERMITTEE: Permit/Certification No.: AO52-89902 Florida Power Corporation Project: Bartow Peaking Unit #4

14. (con't)

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

- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.
- 15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

SPECIFIC CONDITIONS:

- 1. This unit shall be tested for visible emissions at intervals of 12 months from the date of August 13, 1984, if the unit operates more than 5 days (120 hours) on fuel oil during the preceding 12 month period. A copy of the test results should be submitted to the Department's Southwest District Office and the Pinellas County Department of Environmental Management within 45 days of testing.
- 2. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.

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

Permit/Certification No.: A052-89902 PERMITTEE: Florida Power Corporation Project: Bartow Peaking Unit #4

SPECIFIC CONDITIONS (con't):

- Testing of emissions must be accomplished at approximately the rates as stated in this permit. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Section 403.161(1)(c), Florida Statutes).
- 4. Visible emission testing, in order to meet Specific Condition No. 2, shall be in accordance with Method 9-Visible Determination of the Opacity of Emissions from Stationary Sources (36FR24895; Federal Register, December 23, 1971).
- The Department and the Pinellas County Department of Environmental Management will be contacted as soon as possible prior to all compliance tests.
- 6. This unit shall be fired on No. 2 fuel oil with a maximum sulfur content of 0.5%.
- 7. Maintain monthly records for the hours this unit operated and submit these records at 12 month intervals from the date of August 13, 1984, to the Department and the Pinellas County Department of Environmental Management.
- 8. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Section 17-4.14, F.A.C.
- (A) Annual amount of materials and/or fuels utilized.
- (B) Annual emissions (note calculation basis).
- Any changes in the information contained in the permit (C) application.
- An application to renew this operating permit shall be submitted to the Department and the Pinellas County Department of Environmental Management 90 days prior to the expiration date of this permit.

Issued this 5th day of October 1984.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

District Manager

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

1052-08990Z

STATE OF FLORIDA 12 1984 DEPARTMENT OF ENVIRONMENTAL REGULATION

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



D. E. R.

TJUL 12 1984

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

If major alterations have occurred, the a Permit Application Form.	pplicant should complete the Standard Air
Source Type: Combustion Turbine	Renewal of DER Permit No. A0-52-22555
Company Name: Florida Power Corporation	County: Pinellas
Identify the specific emission point source(s) Kiln No. 4 with Venturi Scrubber; Peaking Unit Bartow Peaking Unit #4	
Source Location: Street: Weedon Island	city: St. Petersburg
UTM: East 342180	North 3082870
Latitude: 2 7 . 5 1 . 3 5 . N.	Longitude: 8 2 a 3 6 a 0 9 mw.
 Have there been any alterations to the pla If minor alterations have occurred, descri Attach the last compliance test report required. 	•
4. Have previous permit conditions been adher separate sheet and attach.	ed to? [X] Yes [] No If no, explain on a
	ution control equipment during tenure of curd not previously reported, give brief details eet and attach.
6. Has the pollution control equipment been ciency last permitted by the Department?	
7. Has the annual operating report for the la [] No If no, please attach.	st calendar year been submitted? [X] Yes

DER Form 17-1.202(4)

_							
•	01			FAILANIAA	10 F0000 0 F100	1 5	
O .	riense	DLUATOR	LIIO		information	4 1	andircanier
- •		P					

A. Raw Materials and Chemical Used in Your Process:

Description		Type	Contaminant Type %Wt			Utiliza: Rate		
						. •		
•								

B. Product Weight (1bs/hr):
---------------------------	----

C. Fuels

Type	Consumpti		Maximum Heat
(Be Specific)	Avg/hr+	Max/hr**	Input (MMBTU/hr)
No. 2 Fuel Oil	121	121	714
		·	

D .	Normal Equip	oment Operat	ing Time:	hrs/day	24; day:	3/wk	7 ; wks	/yr <u>52</u> ;	
	hrs/yr (powe	er plants on	ly) <u>207</u> ;	if season	mal, descr.	ibe		•	
				•	<u> </u>		•. •	,	
٠									

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

*Dur	ing	actual	time	of
0.0	arat	ion.	•	

ER	Form	17-1.202(4)	•
Effe	ctive	November	30.	1982

A Devoce	the permitted racifity.
Signature, Owner or Au	thorized Representative
(Notarization	is mandatory).
J. A. Hancock, Vice P	<u>resident, Fossil Opera</u> ti
Typed Nam Post Office Box 1404	e and Title 2
	ress
St. Petersburg,	FL 33733_
7/8/84	State Zip (813) 866-4524
Date	Telephone No.

^{**}Units: Natural Gas-MMCF/hr; Fuel Oils-barrels/hr; Coallbs/hr.

^{***}Attach letter of authorization if not previously submitted



GÖVERNÖR JACOB D. VARN SECRETARY

BOB GRAHAM

DAVID PUCHATY DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT Pinellas County AP Florida Power Corp.

Mr. George C. Moore Florida Power Corporation P.O. Box 14042 St. Petersburg, Fla. 33733

Dear Mr. Moore:

Enclosed is Permit Number	AO52-22555	_, dated	October 23,	197,9
to operate the subject air	pollution source	e		
issued pursuant to Section _	403 , Flo	orida Sta	itutes.	

Should you object to this permit, including any and all of the conditions contained therein, you may file an appropriate petition for administrative hearing. This petition must be filed within fourteen (14) days of the receipt of this letter. Further, the petition must conform to the requirements of Section 28-5.15, Florida Administrative Code, (see reverse side of this letter). The petition must be filed with the Office of General Counsel, Department of Environmental Regulation, Twin Towers Office Building, 2600 Blair Stone Road, Tallahassee, Florida 32301.

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

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

Sincerely,

cc: Record Center

George W. Marshall, P.E

P. David Puchaty District Manager

Enclosure

DER Form 17-1.122(66) Page 1 of 2

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

28-5.15 Requests for Formal and Informal Proceedings

- (1) Requests for proceedings shall be made by petition to the agency involved. Each petition shall be printed typewritten or otherwise duplicated in legible form on white paper of standard legal size. Unless printed, the impression shall be on one side of the paper only and lines shall be double spaced and indented.
- (2) All petitions filed under these rules should contain:
 - (a) The name and address of each agency affected and each agency's file or identification number, if known;
 - (b) The name and address of the petitioner or petitioners;
 - (c) All disputed issues of material fact. If there are none, the petition must so indicate;
 - (d) A concise statement of the ultimate facts alleged, and the rules, regulations and constitutional provisions which entitle the petitioner to relief;
 - (e) A statement summarizing any informal action taken to resolve the issues, and the results of that action;
 - (f) A demand for the relief to which the petitioner deems himself entitled; and
 - (g) Such other information which the petitioner contends is material.



BOB GRAHAM GOVERNOR

JACOB D. VARN SECRETARY

DAVID PUCHATY DISTRICT MANAGER

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

APPLICANT:

Florida Power Corporation

P.O. Box 14042

St. Petersburg, Fla. 33733

PERMIT/CERTIFICATION NO. A052-22555

COUNTY: Pinellas

PROJECT: Peaking Unit

For the operation of a combustion turbine peaking unit burning distillate oil.

UTM: 17 East 342.2 Nort

North 3082.9

Located at Weedon Island, St. Petersburg

Replaces Permit NO: A052-2573

NEDS NO:

0011 Point ID:

Λġ

Expires: September 11, 1984

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions:, and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161(1), Florida Statutes. Permittee is hereby placed

PERMIT NO .:

A052-22555

APPLICANT:

Florida Power Corporation

on notice that the department will review this permit periodically and may initiate court action for any violation of the "Permit Conditions" by the permittee, its agents, employees, servants or representatives.

- 2. This permit is valid only for the specific processes and operations indicated in the attached drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit shall constitute grounds for revocation and enforcement action by the department.
- 3. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.
- 4. As provided in subsection 403.087(6), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- 5. This permit is required to be posted in a conspicuous location at the work site or source during the entire period of construction or operation.
- 6. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.111, F.S.
- 7. In the case of an operation permit, permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
- 8. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant, or aquatic life or property and penalities therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, except where specifically authorized by an order from the department granting a variance or exception from department rules or state statutes.
- 9. This permit is not transferable. Upon sale or legal transfer of the property or facility covered by this permit, the permittee shall notify the department within thirty (30) days. The new owner must apply for a permit transfer within thirty (30) days. The permittee shall be liable for any non-compliance of the permitted source until the transferee applies for and receives a transfer of permit.
- 10. The permittee, by acceptance of this permit, specifically agrees to allow access to permitted source at reasonable times by department personnel presenting credentials for the purposes of inspection and testing to determine compliance with this permit and department rules.
- 11. This permit does not indicate a waiver of or approval of any other department permit that may be required for other aspects of the total project.
- 12. This permit conveys no title to land or water, nor constitutes state recognition or acknowledgement of title, and does not constitute authority for the reclamation of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
- 13. This permit also constitutes:

ſ	Determination of Best Available Control Technology (BACT)
•	3, · · · ·
•	Determination of Prevention of Significant Deterioration (PSD)
ì	 Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)

SPECIFIC CONDITIONS:

PERMIT NO.: A052-22555

APPLICANT: Florida Power Corporation

SPECIFIC CONDITIONS:

- 1. Test for plume density (visible emissions) at intervals of 12 months from the date of 8/13/79 and submit a copy of the test to the District Engineer of this agency within fifteen days of such testing. (Chapter 17-2.08(1), Florida Administrative Code (F.A.C.).
- 2. Testing of emissions must be accomplished at approximately the rates as stated in the application. Failure to submit the input rates or operation at conditions which do not reflect actual operating conditions may invalidate the data (Chapter 403.161(1)(c), Florida Statutes).
- 3. Submit for this facility, each calendar year, on or before March 1, an emission report for the preceding calendar year containing the following information as per Chapter 17-4.14, F.A.C.
 - (A) Annual amount of materials and/or fuels utilized.
 - (B) Annual emissions (note calculation basis).
 - (C) Any changes in the information contained in the permit application.

Expiration Date: September 11, 1984

Issued this 23 day of October, 19 >8.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

P. David Puchaty District Manager

DER FORM 17-1.122(63) Page 3 of 3

Cou	inty Pinellas	Type of Po	ermit <i>O</i>	beroTc	
	licant Fla Power Corp.				WH
	Bartow Peaking UniT#	4			
			Supervisor		
ı.	The permit package is complete ar required documents included.	nd all	Initials	· .	
2.	The calculations (if required) ar correct.	re			
3.	Written review comments are attack with recommendations which are justified in terms of applicable rule regulations.	ıst-	130	: 	
4.	The project description on the peacurately describes and clearly defines the limits of the project being permitted.				
5.	The project location is correct and adequate for the purpose of locating the project site.				
6.	The expiration date is correct or the permit.		X.F.		- h.
7.	The effluent limitations (if applicable) are correct and justified in terms of applicable rule and regulations.		RO		
8.	All provisos are correct and just ified. Any special conditions are explained in the written review comments.				
9.	The permit is correctly signed by local program head if applicable.		121	. :	
L O.	The application has been checked the need to obtain permits from o sections within the department, a so, the appropriate sections have consulted.	ther nd if	<u>Re</u>		
SIG	NED:	DATE:		•	
Supe	ervisor Robert R. Garrett		0-16-79		
PE :	III Dan G william	/	10-23-79	;	

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

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

TO: P. David Puchaty

THRU: Dan A. Williams

FROM: William H. Brown

DATE: October 16, 1979

SUBJECT: Florida Power Corporation

Bartow P4 A052-22555

The application submitted is for a renewal of an operating permit for a combustion peaking unit consisting of a distillate fired turbine generator. Visible emissions test made 8/13/79 showed this unit to be in compliance.

I recommend approval for the continuance of this operating permit.

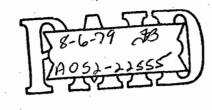
WHB/rkt

AUC O 1979

AUC O 1979

THINEST DISTRICE





STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION APPLICATION TO OPERATE/CONSTRUCT AIR POLLUTION SOURCES

Source Type: [X] Air Pollution [] 1	ncinerator
Application Type: [] Construction IX1 Operation	I Modification IX Renewel of DER Permit No. A052 2573.
Company Name: Florida Power Corporation	County Pinellas
	optication (I.e.: Lime Kiln No. 4 with Venturi Scrubber; Prieking Unit No. 2, Gis
	City: St. Petersburg
	North 3082870
	Longitude: "W.
	Vice President, Power Production
	rg, FL 33733
7,111. (1010)	
	ENTS BY APPLICANT AND ENGINEER
A. APPLICANT	Florida Povor Corneration
	Florida Power Corporation
pollution control facilities in such a manner as to comply wi	I belief. Further, I agree to maintain and operate the pollution control source and ith the provisions of Chapter 403, Florida Statutes, and all the rules and regulations at a permit, if granted by the Department, will be nontransferable and I will promet.
	Allera (1. VIlara
George C. Moore Name of Person Signing (please Type or Print)	Signature of the pwyer or Authorized Representative and Title
	Date: 7/3//29 Telephone No.: 813/866-4140
*Attach a letter of authorization.	
Attach a letter of authorization.	•
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA	
formity with modern engineering principles applicable to the is reasonable assurance, in my professional pidgement, that the an effluent that complies with all applicable statutes of the	ition control project have been designed/examined by me and found to be in con- treatment and disposal of pollutants characterized in the permit application. There he pollution control facilities, when properly maintained and operated, will discharge State of Florida and the rules and regulations of the Department. It is also agreed functions for the proper maintenance and operation of the pollution control facilities
Signature: Locar W Market	Mailing Address: P.O. Box 14042
Name: George W. Marshall	StPetersburg, FL 33733
The state of the s	
Computation AFICrida Power Corporation	on Telephone No. 813/866-4420
Coalputy Name: A AFLOxida Power Corporation No. 6008 NO. 6008 AUG. 14 (AMIX Soul) 1956 MECHALICAL	Date:
DEPERSON TO Pan Blongers of 5	

SECTION II: GENERAL PROJECT INFORMATION

	turbine peaking unit.
	d .
•	
	•
Sc	hedule of Project Covered in this Application (Construction Permit Application Only). N/A
	Start of Construction: Completion of Construction:
_	
_	
In	dicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates. DER Permit A052 2573 issued 8/21/74 expires 8/21/79.
_	
ls —	the emission point considered to be a New* or Existing* source, as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code? New Existing
ls 22	this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Cha PF-2, Florida Administrative Code?YesX_No
N	ormal Equipment Operating Time: hrs/day: <u>Ave. 5</u> ; days/wk: <u>7</u> ; wks/yr:; if seasonal, describe: This unit is used when demand and system conditions require. It averages
	approximately five hours per day per year or about 1825 hours.
_	
te	

SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

Descri	ption		'	tilization Rate lbs./hr.		Relate to w Diagram
· · · · · · · · · · · · · · · · · · ·						
			_		<u> </u>	
Process Rete: N/A		•				
1) Total Process Input Rate	(lbs./hr.):					
2) Product Weight (lbs/hr):	<u> </u>					
Airborne Contaminants Disch	narged: 19	78 data		•		
Name of Contaminant		tual arge*	Ra	d Discharge ite Per 2, F.A.C.**	Allowable Discharge*** (lbs./hr.)	Relate to Flow Diagram
	lbs./hr.	T/yr.	ļ			
Particulate	10.46	4.74		/A .	N/A	
<u> </u>	79.42	36.02		/A	N/A	
NOχ	274.91	124.69	- N,	/A	N/A	
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
		ļ	-			
	<u>L</u>	<u></u>				<u> </u>
		٠				
Control Devices: N/A					icles Ba	sis for Efficiency††
Name and Type (Model and Serial No.)	Cont	aminant	Efficiency [†]	Range of Part Size Collect (in micron	ed s)	
Name and Type	Cont	aminant	Efficiency [†]	Size Collect (in micron	ed s)	
Name and Type	Cont	aminant	Efficiency [†]	Size Collect (in micron	ed s)	

†See Supplemental Requirements, page 5, number 2.

^{*}Estimate only if this is an application to construct.

[&]quot;Specify units in accordance with emission standards prescribed within Section 17-2.04, F.A.C. (e.g. Section 17-2.04(6)(e) 1.a. specifies that new fossil fuel steam generators are allowed to emit particulate matter at a rate of 0.1 lbs. per million BTU heat input computed as a maximum 2-hour average.)

^{***} Using above example for a source with 260 million BTU per hour heat input: $0.1 \text{ lbs} \times \frac{260 \text{ MMBTU}}{\text{hr}} = 26 \text{ lbs./hr}.$

ffIndicate whether the efficiency value is based upon performance testing of the device or design data.

1 7 7 10	Type (Be Specific)		Consumpti	on*		Maximum Heat Input		
		avg:/hr.	,,,	Max./hr.		(MMBTU/hr)		
Distillate	oil	36306	1b.	36306 lb.		708		
						<u></u>		
·						· · · · · · · · · · · · · · · · · · ·		
Units: Natural Gas	- MMCF/hr.; Fu	el Oils, Coal - lbs./hr.				•	,	
Fuel Analysis:						•		
•	0.18	•		Percent Ash:	race		•	
Density:								
		0 .			139692		DT11/-	
				B I U/IB,	103032		BTU/g	
Other Fuel Con	taminants:					 		
. If applicable, in	dicate the percer	nt of fuel used for spa	ice heating:	N/A Annu	sl Average:	Maximum	1:	
				÷				
. Indicate liquid	or solid wastes ge	enerated and method	of disposal:	N/A				
								
						<u> </u>		
				· · · · · · · · · · · · · · · · · · ·				
I. Emission Stack	Geometry and F	Tow Characteristics (provide data f	or each stack):			•	
		-			k Diameter:1	8 X 13		
Stack Height: _	45	low Characteristics (ft. Sted	k Diameter:1			
Stack Height: _	45 10432	97		ft. Sted	k Diameter:1			
Stack Height: _	45	97		ft. Stec ACFM Gas				
Stack Height: _	45 10432	97		ft. Stec ACFM Gas				
Stack Height: _	45 10432	97		ft. Stec ACFM Gas				
Stack Height: _	45 10432	97		ft. Stec ACFM Gas				
Stack Height: _	45 10432	97		ft. Stec ACFM Ges %	Exit Temperature: -			
Stack Height: _	45 10432	97		ft. Stec ACFM Gas	Exit Temperature: -			
Stack Height: _	45 10432	97		ft. Stec ACFM Ges %	Exit Temperature: -		•	
Stack Height: _Gas Flow Rate: Water Vapor Co	45 10432 pontent:5	97 SECTIO	ON IV: INCII	ft. Sted ACFM Gas %	Exit Temperature: _	930	•	
Stack Height: _	45 10432	97		ft. Stec ACFM Ges %	Exit Temperature: -	Type V (Liq. & Gas	Type VI (Solid	
Stack Height: -Gas Flow Rate: Water Vapor Co	45 10432 pontent: 5	97 SECTION	DN IV: INCII	ft. Sted ACFM Gas %	Exit Temperature: - ATION Type IV	930 Type V	Type VI	
Stack Height: Gas Flow Rate: Water Vapor Co	45 10432 pontent: 5	97 SECTION	DN IV: INCII	ft. Sted ACFM Gas %	Exit Temperature: - ATION Type IV	Type V (Liq. & Gas By-prod.)	Type VI (Solid	
Stack Height: Gas Flow Rate: Water Vapor Co	45 10432 pontent: 5	97 SECTION	DN IV: INCII	ft. Sted ACFM Gas %	Exit Temperature: - ATION Type IV	Type V (Liq. & Gas	Type VI (Solid	
Stack Height: Gas Flow Rate: Water Vapor Co	45 10432 ontent: 5	97 SECTION	DN IV: INCII	ft. Sted ACFM Gas %	Exit Temperature: - ATION Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid	
Stack Height: _Gas Flow Rate: Water Vapor Co Type of Waste Lbs./Hr. Incinerated	Type O (Plastics)	SECTION Type I (Rubbish)	DN IV: INCII Type II (Refuse)	ft. Stac ACFM Gas % NERATOR INFORM Type III (Garbage)	ATION Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid	
Stack Height: Gas Flow Rate: Water Vapor Co Type of Waste Lbs./Hr. Incinerated Description of Waste	Type O (Plastics)	SECTION Type I (Rubbish)	ON IV: INCII Type II (Refuse)	ft. StaceACFM Gas% NERATOR INFORM Type III (Garbage) Design Capace	ATION Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By prod.)	
Stack Height: - Gas Flow Rate: Water Vapor Co Type of Waste Lbs./Hr. Incinerated Oescription of Waste Approximate Numb	Type O (Plastics) ated (lbs./hr.): er of Hours of O	SECTION Type I (Rubbish)	DN IV: INCII Type II (Refuse)	ft. Stace	ATION Type IV (Pathological)	Type V (Liq. & Gas By-prod.)	Type VI (Solid By-prod.)	

	Volume	Heat Fielease	p p	uel	Temp. (°F)
	(It.) ³	(BTU/hr.)	Туре	BTU/hr.	
Primary Chamber					
Secondary Chamber					
itack Height:	ft, Stack Diame	eter:	Stack Temp.: _		
Gas Flow Rate:	ACFM	DSCFM*			
11 50 or more tons per d	lay design capacity, submit th	ne ernissions rate in grains per	standard cubic f	oot dry gas corre	ected to 50% excess air.
	•				
ype of Pollution Contro	I Device:] Cyclone [Wet Scrubber		() Afterburner
ype of Pollution Contro	· ·	Cyclone (Other (Specify):			• •
	· ·	Other (Specify):			
triet Description of Oper		Other (Specify):			
trief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
Brief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
Brief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
Brief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
Brief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
trief Description of Oper	ating Characteristics of Cont	Other (Specify):	•		
trief Description of Oper	ating Characteristics of Cont	Other (Specify):	bber water, ash, e	etc.):	
Brief Description of Oper	ating Characteristics of Cont	Other (Specify):	•	etc.):	
	ating Characteristics of Cont	Other (Specify):	bber water, ash, e	etc.);	

SECTION V: SUPPLEMENTAL REQUIREMENTS

Please Provide the Following Supplements Required For All Pollution Sources:

- 1. Total process input rate and product weight show derivation.
- 2. Efficiency estimation of control device(s) show derivation. Include pertinent test and/or design data,
- An 85" x 11" flow diagram, which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where raw
 materials enter, where solid and liquid waste exit, where gaseous emissions and/or airborne particles are evolved and where finished products are
 obtained.
- 4. An 8%" x 11" plot plan of facility showing the exact location of manufacturing processes and outlets for airborne emissions. Relate all flows to the flow diagram.
- 5. An 8%" x 11" plot plan showing the exact location of the establishment, and points of airborne emissions in relation to the surrounding area, residences and other permanent structures and roadways. (Example: Copy of USGS topographic map.)
- 6. Description and sketch of storm water control measures taken both during and after construction.
- 7. An application fee of \$20.00, unless exempted by Chapter 17-4.05(3), FAC, made payable to the Department of Environmental Hagiliation
- 8. With construction permit application, include design details for control device(s). Example: for baghouse, include cloth to au ratio; for scrubber, include cross-sectional sketch; etc.
- 9. Certification by the P.E. with the operation permit application that the source was constructed as shown in the construction permit application.



STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

TER P. BALJET ECUTIVE DIRECTOR

WEST CENTRAL REGION P.O. BOX 9205 WINTER HAVEN, FLORIDA 33880

DAVID H. LEVI CHAIRMAN

PINELLAS COUNTY AP FLORIDA POWER CORPORATION

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

Dear Mr. Marshall,

Pursuant to your recent application, please find enclosed a permit (No. A052-2573) dated August 21, 1974 to construct/ operate the subject pollution source.

This permit will expire on Auugst 21, 1974, and will be subject to the conditions, requirements and restrictions checked or indicated otherwise in the attached sheet

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

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

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

Yours very truly,

P.E.

Regional Engineer West Central Region

1-74

JHK/pm

Bill Nickonovitz

STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

OPERATION PERMIT

Barton P-4

N. W.

-

在馬鹿斯城市在馬馬馬馬 医唇唇有医唇切片性坏坏工 医耳及后足病 医科尔特斯 网络不生的 医原氏

FOR

52-2573

FLORIDA POWER CORPORATION

P.O. BOX 14042

ST. PETERSBURG, FLORIDA 33733

PERMIT NO. AO.

治理整点

所の田の日

DATE August 21, 1974

PURSUANT TO THE PROVISIONS OF SECTION 403.061, (16) OF CHAPTER 403 FLORIDA STATUTES AND

CHAPTER 17-4 FLORIDA ADMINISTRATIVE CODE, THIS PERMIT IS ISSUED TO

Mr. G. W. Marshall Production Superintendent

FOR THE OPÉRATION OF THÉ EOLLOWING:

Bartow #4 Oil Fired, Gas Turbine Driven Electrical Generating Unit

LOCATED AT:

Weedon Island, Pinellas Co.

UTM: 342.180E 3082.870N

IN ACCORDANCE WITH THE APPLICATION DATED April 8, 1974

AND IN CONFORMITY WITH THE STATEMENTS AND SUPPORTING DATA ENTERED THEREIN, ALL OF WHICH

ARE FILED WITH THE DEPARTMENT AND ARE CONSIDERED A PART OF THIS PERMIT!

THIS PERMIT SHALL BE EFFECTIVE FROM THE DATE OF ITS ISSUANCE UNTIL

8/21/79 OR UNTIL

A wind

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

FORM 1-I

J. H. KERNS, P.E.

WEST CENTRAL REGION

001108

OPERATION PERMIT CONDITIONS

FOR AIR POLLUTION SOURCES

Permit No.: A052-2573

Date: August 21, 1974

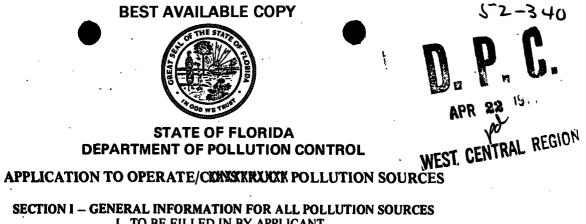
- (X) 1. Fugitive dusts, odors and other pollutants from all sources shall be effectively controlled or eliminated by suitable means. (Chapter 17-2.04 (3)(4)(5))
- (X) 2. The pollution control equipment shall be maintained and operated in such a manner that all emissions will be in compliance with applicable rules and regulations of the DPC. A log of maintenance activities shall be kept and available for DPC review. (Chapter 17-2.03 (7))
- (X) 3. Report any problems encountered in the operation of the source that may result in discharge of pollutants in amounts higher than permitted herein. Cease operation forthwith unless permission has been obtained from the regional office of the DPC to operate the source for an interim period. (Chapter 17-4.13)
- (X) 4. This permit is issued on the basis of the data submitted in the application and the existing requirements of this agency as set forth in Chapter 17-2 (revised January 18, 1972) Florida Administrative Code. The owner shall obtain written permission from the DPC before making changes in the operation of the source (i.e. higher production rate, different raw materials and fuels, etc.) that may increase the quantity of pollutants or change their composition. (Chapter 17-2.01)
- (X) 5. This permit is not transferable. Upon the sale or legal transfer of the source covered by this permit, the new owner must apply by letter for a transfer of this permit within thirty days. (Chapter 17-4.12)
- () 6. Test the emissions for the following pollutant(s) at intervals of from the date of this permit and submit two copies of test results to the regional engineer of this agency within fifteen days of such testing. (Chapter 17-2.07 (1))

()	Particulates			()	Sulfur Oxides
Ì	j	Fluorides		•	() ·	Nitrogen Oxides
() .	Plume Density			()	Hydrocarbons

- () 7. Provide such sampling and testing facilities as may be necessary for the proper determination of the nature and quantity of air pollutants emitted from this source. (Chapter 17-2.07)
- () 8. Identify the pollution source and/or control equipment by its manufacturer, model number, serial number, capacity, and any other pertinent information. Submit this information on or before
- () 9. There shall be no discharge of liquid effluents or contaminated run-off from this site.
- (X) 10. The operation of this installation shall be observed for visible emissions snnually in accordance with method 9, visible determination of the opacity of emissions from stationary sources (Federal Register, December 23, 1971). The results shall be submitted in duplicate to the DPC West Central Region P.O. Box 9205, Winter Haven, Florida 33880.

BEST AVAILABLE COPY





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

			
Source Type: Air Pollu Type application: [x] Ope Status Source: [] New	eration [] Tempor	rary Operation	Construction Modification
Source Name: Florida P	Power Corporation	(Bartow) p_4	County: Pinellas
Source Location: Street: Weed (Water Source Only) Lat:			St. Petersburg 082870 mN
(Air Source Only) UTM:	East 342180 mE	North	8082870 mN
Appl. Name and Title: G. W. Appl. Address: P. C.	Box 14042, St. P	etersburg, FL 3	33733
	BE FILLED IN BY REGIO		
Control No: Region	County	Type	*Project
Type Permit Date Ro	ec'd *Permit No.	*Issue Date	*Compl. Date *Exp. Date
Source Description:			
P. Maria D. I. Ondo		Permits	
Receiving Body Code:Station No.: Influent:		Effluent:	Code:
Effluent: Flow rate, MGD BOD, lbs/day Susp. Sol., lbs/day	Average	Design	% Reduction
Other:			
	Air l	Permits	
Operating Time: [] Con Fuel: Type <u>Processed cru</u> Incinerator: Capacity, tons/day Mfg. & Model	<u>de or distillate o</u>		ttent 660 x 10 ⁶ BTU/HR
Pollutant Emissions, lbs/day 12 Hr./Dayarticulate	Actual 547.2 1bs/Day	Design 435.6 1bs/Day	Allowable N/A
(Crude) Sulfur Oxides Other:	3774 1bs/Day	8712 1bs/Day	N/A
Implementation: Estimated Appl Estimated Start of Const.			pliance Date

DESCRIPTION OF PROPOSED PROJECT

Α.	Describe the nature and extent of the proposed project. Refer to existing pollution control facilities, DPC permits conditions, orders and notices, expected improvement in performance of the facilities and state whether the proposed project will result in full compliance of the source. Attach additional sheet if necessary.
	N/A
В.	Schedule of Project Covered in this Application (Construction Permit Application Only).
	Federally or State Financed Projects only:
	Planning CompleteN/A Financing Program Complete
	Indicate other local, state and/or federal agency approvals and dates
	All projects: Start of Construction Completion of Construction
С.	Costs of Construction (Show a breakdown of costs for individual components/units of the proposed project serving pollution control purpose only). Information on actual costs shall be furnished with the application for operation permit.
٠.	
).	Indicate any previous DPC permits, issuance dates, and expiration dates.
	Construction Permit AC-369 Issued 6-24-71
	

AIR POLLUTION SOURCES & CONTROL DEVICES

A.	1)	fication of Ai [x] Particul a) [] Dust	ates		. (c) [x] Smoke	d) [] Otl	ner (Identify)
		[x] Sulfur (a) [x] SO _x			Reduc	ed Sulfur as H ₂ S	c) [] Oth	ner (Identify)
		[_X] Nitroger a) [_X] NO _x		unds b)[]	NH ₃		c) [] Oth	ner (Identify)
	4)	[] Flouride	es		5) [] Acid Mist	6)	[] Odor
	7)	[] Hydroca	arbons		8) [] Volatile Orga	nic Compounds	
	9)	[] Other (S	Specify):					
B.				Used (Be Spec				
	Descri	ption		Utilizatio Tons/day lbs./day, e	у,	Approx Contam Cont	ninant	Relate to Flow Diagram
						Туре	% W t.	
	Fuel			36,300 11	b/Hr.	Ash	45.6/1b./hr.	(2)
	A.≄			1 765 000	0 15/1	Sulfur	312 lb./hr.	(2)
	Air			1,765,00	ו ועור ט	.ur •		(1)
C. D.	1) 1 2) I 3) 1 	Product Weigl	Weight R ht ating Tim ants Discl	e	sed or	hr. expressed as	if seasonal describe	
Nar	ne or Co	ontaminant		tuai harge		Discharge Criteria*	Allowable Discharge*	Relate Location to Flow Diagram
Par	<u>rticul</u>	lates	547	1b/day		N/A	N/A	(3)
SO ₂	>		3744	1b/day		N/A	N/A	(3)
							I NZA	(3)
NO,	<u> </u>		5472	lb/day		N/A	N/A	(3)

Name			is of Operation,	Relate to Flow Diag
None	Eff.	Particle S	Size Range, etc.	
· · · · · · · · · · · · · · · · · · ·				
Fuels:				
Type (Be specific)	(12 Hrs./ Daily Cor	Day) nsumption	Heat Input	Relate to Flow
Libyan Crude (0.43%S)	435,600 1	bs/Day	BTU/hr. 557_03_x_1 <u>0</u> 6_B	Diagram /Hr. (2)
Distillate Oil (0.18%S)	11		11 N	(2)
				. ,
·				
identified in this application: This	•	-		rating the airborne em
identified in this application:	•	-		-
identified in this application: This	•	-		-
identified in this application: This generating unit	s is an oi	l-fired. ga	s turbine dri	ven, electrical
identified in this application: This generating unit. Indicate liquid or solid wastes generate	s is an oi	l-fired. ga	s turbine dri	ven, electrical
generating unit. Indicate liquid or solid wastes generate No liquid or solid was	s is an oi	l-fired. ga	s turbine dri	ven, electrical

STATEMENTS BY APPLICANT AND ENGINEER

A.	Applicant
	The undersigned owner or authorized representative of * Florida Power Corporation
	is fully aware that the statements made in this application for a <u>Operating</u> permit are
	true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403 Florida Statutes and all the rules and regulations of the Department or revisions thereof. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or
	legal transfer of the permitted establishment.
	Sw marshell
	Signature of the Owner or Authorized Representative
	G. W. Marshall, Production Superintendent
	Name and Title (Please Type)
	Date: Telephone No.: (813) 866-4420
	* Attach a letter of authorization
В.	Professional Engineer Registered in Florida:
	This is to certify that the engineering features of this pollution control project have been *********************************
	Signature Mailing Address: Florida Power Corporation P. 0. Box 44042 C-4 St. Petersburg, FL 33733 Telephone No.: (813) 866-4420
	(please type)

The Harmon

Florida Registration Number

(Please affix seal)

6008.

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

Date: _

August 8, 1974

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

ENGINEERING REPORT .

P. L. BARTOW GAS TURBINE UNITS

P1, P2, P3, P4

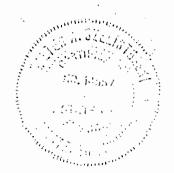
This report is to certify that the subject gas turbine generator units were constructed and installed in accordance to the engineering design drawings that were prepared or approved by Florida Power Corporation.

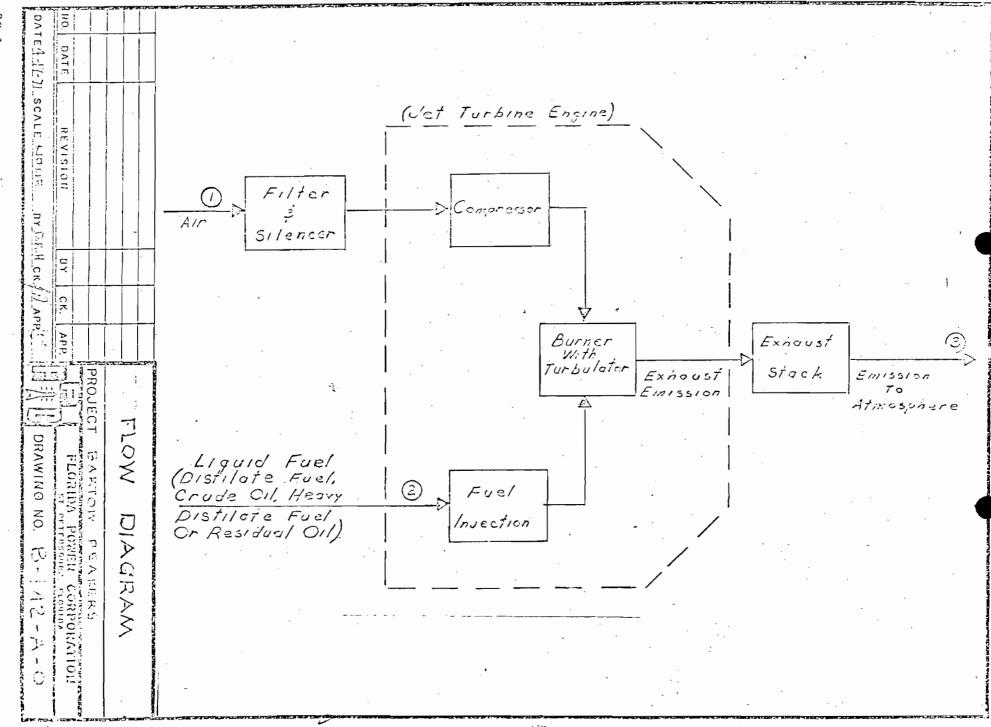
The power plant is presently in operation and has been accepted by Florida Power Corporation as meeting the manufacturer's performance guarantees.

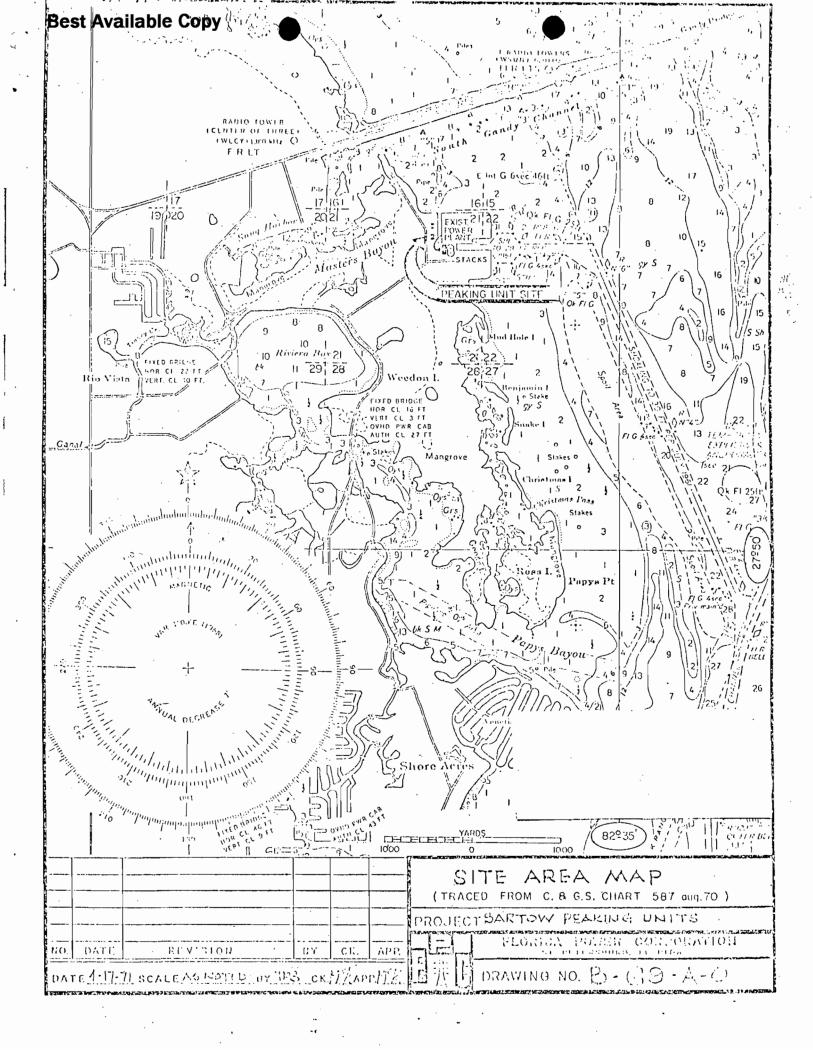
Up-to-date drawings on the facility are kept on file in the Production Department engineering drawing vault and at the power plant.

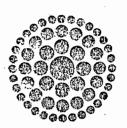
in which a for the force of

Walter A. Szelistowski Director, Generation Engineering FLORIDA POWER CORPORATION Florida Registration Number 14557









Florida Power

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

Gentlemen:

Subject: Letter of Authorization

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

Sincerely,

B. L. Griffin Vice President

BLG:cl

S T A T E O F F L O R I D A OFFICE OF SECRETARY OF STATE

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

- (a) A Composite Certificate of Reincorporation, as amended through

 June 16, 1966 (with Appendix consisting of Items A, B and C),

 containing only such provisions as were in effect as of such date;
- (b) On March 31, 1970, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (c) On November 12, 1970, certified copy of a Resolution duly adopted by its Board of Directors on November 5, 1970, creating and establishing an 8.80% Series of Cumulative Preferred Stock;
- (d) On April 2, 1971, a Certificate of Amendment of the Composite Certificate of Reincorporation of the Company;
- (e) On April 4, 1972, a Certificate of Amendment of the Composite

 Certificate of Reincorporation of the Company; and
- (f) On June 8, 1972, a certified copy of a Resolution duly adopted by its Board of Directors on June 1, 1972, creating and establishing a 7.40% Series of Cumulative Preferred Stock.

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

GIVEN under my hand and the Great Seal of the State of Florida, at Tallahassee, the Capital, this the 4th day of

December, A.D. 1973.

SECRETARY OF STATE

(Die)Xton





Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL
Mr. Scott Osbourn
Senior Environmental Engineer
Florida Power Corporation
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Osbourn:

Re: Bartow Combustion Turbine Peaking Units 1 - 4
Operation Permit Amendments Addition of Natural Gas as a Permitted Fuel
Permit Numbers: A052-253215A (Peaking Unit No. 1)
A052-253216A (Peaking Unit No. 2)

A052-253217A (Peaking Unit No. 3) A052-253218A (Peaking Unit No. 4)

(Processed under ARMS PA Project 1030011-003-AO)

On November 18, 1996, the Department received your request to amend the above permits. The requested amendments consist of the addition of natural gas as a permitted fuel for each of the four combustion turbine peaking units. Review of the Department permit files for these emission units shows that the only construction permit for these units, AC-369, was issued on June 24, 1971, well prior to the date that would make any of its provisions federally enforceable. Therefore, since there are no federally enforceable permit requirements limiting the fuel used in these peaking units to No. 2 fuel oil only, and since the use of natural gas will not result in an increase in emission rates of any regulated pollutant, this change is not considered a modification as defined in Rule 62-210.300, F.A.C. As a result, the requested change can be accomplished by an operation permit amendment. Establishing of all of the permit requirements as federally enforceable will be accomplished at a later date through issuance of a Title V major source operation permit for this facility.

Therefore, permit numbers AO52-253215A, AO52-253216A, AO52-253217A, and AO52-253218A are hereby amended as follows:

Florida Power Corporation

Page 1 of 8 Description

From:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. (insert appropriate unit number) and is composed of a General Electric Company, Serial No. ((insert appropriate unit number) electric generator driven by a General Electric Company, Model MS 7000, Serial No. (insert appropriate unit number) gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

To:

For the operation of an oil/natural qas fired gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. (insert appropriate unit number) and is composed of a General Electric Company, Serial No. ((insert appropriate unit number) electric generator driven by a General Electric Company, Model MS 7000, Serial No. (insert appropriate unit number) gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 5,174 gallons per hour of No. 2 fuel oil, or 714 MCF per hour of natural gas (corresponds to approximately 714 MMBtu per hour). The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new No. 2 fuel oil with a maximum sulfur content of 0.5% (by weight), and/or natural gas.

Page 2 of 8 Specific Condition No. 6.

From:

6. The Bartow Peaking Unit No. (insert appropriate unit number) shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

To:

6. The Bartow Peaking Unit No. (insert appropriate unit number) shall only utilize new No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight, or natural gas. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

Page 3 of 8 Specific Condition No. 9.

From:

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The (remainder of condition unaffected).

To:

9. Testing of visible emissions should be conducted while firing No. 2 fuel oil with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The(remainder of condition unaffected).

A person whose substantial interests are affected by this permit amendment may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57 Florida Statutes.

The Petition shall contain the following information;

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

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

This permit amendment is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

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

This letter must be attached to and becomes a part of permits AO52-253215A, AO52-253216A, AO52-253217A, and AO52-253218A. If you have any questions please call Mr. David Zell of my staff at (813) 744-6100, extension 118.

Sincerely,

W.C. Thomas, P.E.

Director Air Program Administrator

Southwest District

DRZ/

copies to:

Gary Robbins, Pinellas County Dept. of Environmental Management Charles Logan, FDEP BAR Tallahassee, Tile V Permit Section

CERTIFICATE OF SERVICE

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Carol S. Moore 1/13/97
Clerk Date

P 079 948 456

Mr. Scott Osbourn Senior Environmental Engineer Florida Power Corporation P.O. Box 14042 St. Petersburg, FL 33733

P 079 948 457

Mr. Gary Robbins
Pinellas County Department
of Environmental Management
300 South Garden Street
Clearwater, FL 34616

PS Form 3800. ...-

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MEMORANDUM

TO:

Jerry Kissel, P.E.

District Air Engineer

FROM:

David Zell, Permit Engineer

SUBJECT:

Company: Florida Power Corporation, Bartow Plant

Permit Nos: Amendment Letter affecting:

A052-253215A (Peaking Unit No. 1) A052-253216A (Peaking Unit No. 2) A052-253217A (Peaking Unit No. 3) A052-253218A (Peaking Unit No. 4)

County:

Pinellas

Project:

Bartow Combustion Turbines (4) Add Natural Gas as Permitted Fuel

(Processed under ARMS Project 1030011-003-AO)

DATE: 01/10/97

On 12/20/96, the Department received a request to amend the above permits to add natural gas as a permitted fuel for all four of the combustion turbines (CT's).

Review of the Department permit files for these emission units shows that the only construction permit for these units, AC-369, was issued on June 24, 1971, well prior to the date that would make any of its provisions federally enforceable. Therefore, since there are no federally enforceable permit requirements limiting the fuel used in these peaking units to No. 2 fuel oil only, and since the use of natural gas will not result in an increase in emission rates of any regulated pollutant, this change is not considered a modification as defined in Rule 62-210.300, F.A.C. As a result, the requested change can be accomplished by an operation permit amendment. Establishing of all of the permit requirements as federally enforceable will be accomplished at a later date through issuance of a Title V major source operation permit for this facility.

Due to the fact that the operation permits for all four CT's are identical (except for unit and serial numbers), this change is being accomplished through issuance of one amendment letter which amends all four permits. Due to the fact that these are peaking units with very low actual operating hours (< 400 hrs/yr for each unit in 1995) and minimal visible emissions are expected from natural gas combustion, it was not considered necessary to require a special set of VE tests for these units while firing natural gas.

In a comment letter dated 12/18/96, PCDEM noted several minor discrepancies in the application but otherwise expressed no objections to approval of this request.

I recommend that this permit amendment be issued as drafted and submit it for your review and approval.

<u>Note</u>: Application and Pinellas County DEM letter in file for Peaking Unit No. 1 only (AO52-253216).





Table BA-EU1-H8b. Maximum Finissions of Criteria Pollutants for Bartow, Simple Cycle-GE MS7000 (Church County) eak Load @ 59 F

Pollutant	Unit P1	Unit P2	Unit P3	Unit P4
Hours of Operation	8,760	8,760	8,760	8760
Particulate (lb/hr)= Emission rate (lb/hr) from manufactu	ırer			
Basis (including H2SO4), lb/hr	5.0	5.0	5.0	5.0
lb/hr TPY- 1 Unit	5.0 2 1.9	5.0 21.9	5.0. 21. 9	5.0 21.9
	87.6	87.6	87.6	87.6
Sulfur Dioxide (lb/hr)= Natural gas (cf/hr) x sulfur conter	nt(gr/100 cf) x 1 lb/7	000 gr x (lb SO2/	lb S) + 100	
Natural Gas (cf/hr)	714,000	714,000	714,000	714,000
Basis, gr/100 cf lb SO2/lb S (64/32)	1.0 2.0	1.0 2.0	1.0 2.0	1.0 2.0
1b/hr	2.04	2.04	2.04	2.04
TPY- 1 Unit	8.94	8.94	8.94	8.94
E-1 AUTO	3 5.7	35.7	35.7	35.7
Nitrogen Oxides (lb/hr)= Based on Manufacturer				
Basis, ppmvd @15% O2 (1)	102	102	102	102
Volume Flow (acfm)	1,070,692	1,070,692	1,070,692	1,070,692
Temperature (°F)	928	928	928	928
lb/hr	265 4 460 7	265 1,160.7	265 1,160.7	265 1,160.7
TPY- 1 Unit	1,160.7 4642.8	4642.8	4642.8	4642.8
Carbon Monoxide (lb/hr)= Based on Manufacturer				
Basis, ppmvd (1)	10	10	10	10
Volume Flow (acfm)	1,070,692	1,070,692	1,070,692	1,070,692
Temperature (°F)	928	928	928	928
lb/hr	18.0	18.0	18.0	18.0
TPY- 1 Unit	78.8 315.4	78.8 315.4	78.8 3 15.4	78.8 315.4
VOCs (lb/hr)= VOC(ppm) x [1 - Moisture(%)/100] x 2111		• •		
16 (mole, wgt as methane) x 60 min/hr +	· [1545 x (C1 temp.(°F) + 460°F) x 1,	000,000 (adj. foi	ppm)j
Basis, ppmvw (1)	2.0	2.0	2.0	2.0
Moisture (%)	12.00	12.00	12.00	12.00
Volume Flow (acfm) Temperature (°F)	1,070,692 928	1,070,692 928	1,070,692 928	1,070,692 928
lb/hr	1.8	1.8	1.8	1.8
TPY- 1 Unit	7.8	7.8	7.8	7.8
Aunic	31.3	31.3	31.3	ý 21.3
Sulfuric Acid Mist (lb/hr) = Fuel consumption (lb/hr) x su	ılfur content (%) x (C	Conversion (fracti	on) of S to H2SC	04) x 1b H2S
Fuel consumption (lb/hr)	34,408	34,408	34,408	34,408
Sulfur Content (gr/100 cf)	1.0	1.0	1.0	1.0
Sulfur content (%) (a) Ib H2SO4/Ib S (98/32)	0.00294 3.1	0.00294 3.1	0.00294 3.1	0.00294
CT Exhaust- % S Conversion to H2SO4	10.0	10.0	10.0	3.1 10.0
lb/hr	0.31	0.3	0.3	0.31
TPY - 1 Unit	1.36	1.36		1.36
Note: ppmvd= parts per million, volume dry; O2= oxygen	5.4	5.4	5.4	5.43
Source: (1) GE, 1995				
Moisture (%)	12	12	12	12
Oxygen (%)	14.63	14.63	14.63	14.63
Moisture (%)	12	12	12	12
Fuel density (lb/scf)	0.0486	0.0486	0.0486	0.0486

1030011-003-AD



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

Mr. Scott Osbourn Senior Environmental Engineer Florida Power Corporation P.O. Box 14042 St. Petersburg, Florida 33733

Dear Mr. Osbourn:

Re: Bartow Combustion Turbine Peaking Units 1 - 4

Operation Permit Amendments -

Addition of Natural Gas as a Permitted Fuel Permit Numbers: A052-253215A (Peaking Unit No. 1)

A052-253216A (Peaking Unit No. 2) A052-253217A (Peaking Unit No. 3)

A052-253218A (Peaking Unit No. 4)

(Processed under ARMS PA Project 1030011-003-AO)

On November 18, 1996, the Department received your request to amend the above permits. The requested amendments consist of the addition of natural gas as a permitted fuel for each of the four combustion turbine peaking units. Review of the Department permit files for these emission units shows that the only construction permit for these units, AC-369, was issued on June 24, 1971, well prior to the date that would make any of its provisions federally enforceable. Therefore, since there are no federally enforceable permit requirements limiting the fuel used in these peaking units to No. 2 fuel oil only, and since the use of natural gas will not result in an increase in emission rates of any regulated pollutant, this change is not considered a modification as defined in Rule 62-210.300, F.A.C. As a result, the requested change can be accomplished by an operation permit amendment. Establishing of all of the permit requirements as federally enforceable will be accomplished at a later date through issuance of a Title V major source operation permit for this facility.

Therefore, permit numbers A052-253215A, A052-253216A, A052-253217A, and A052-253218A are hereby amended as follows:

Florida Power Corporation

Page 1 of 8 Description

From:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. (insert appropriate unit number) and is composed of a General Electric Company, Serial No. ((insert appropriate unit number) electric generator driven by a General Electric Company, Model MS 7000, Serial No. (insert appropriate unit number) gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 121 barrels per hour or 714 MMBtu per hour, respectively. The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

To:

For the operation of an oil/natural gas fired gas turbine driven electrical generating unit with a rated maximum capacity of 55.7 MW. The unit is designated as the Bartow Peaking Unit No. (insert appropriate unit number) and is composed of a General Electric Company, Serial No. ((insert appropriate unit number) electric generator driven by a General Electric Company, Model MS 7000, Serial No. (insert appropriate unit number) gas turbine. The manufacturer's fuel flow and heat input ratings for the turbine are 5,174 gallons per hour of No. 2 fuel oil, or 714 MCF per hour of natural gas (corresponds to approximately 714 MMBtu per hour). The peak heat input rate of the turbine is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbine utilizes new No. 2 fuel oil with a maximum sulfur content of 0.5% (by weight), and/or natural gas.

<u>Page 2 of 8</u> <u>Specific Condition No. 6.</u>

From:

6. The Bartow Peaking Unit No. (insert appropriate unit number) shall only utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

To:

6. The Bartow Peaking Unit No. (insert appropriate unit number) shall only utilize new No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight, or natural qas. "New, No. 2 fuel oil" is defined as fuel oil that has been refined from crude oil and has not been used and which may or may not contain additives.

Page 3 of 8 Specific Condition No. 9.

From:

9. Testing of visible emissions should be conducted with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The (remainder of condition unaffected).

To:

9. Testing of visible emissions should be conducted while firing No. 2 fuel oil with the turbines operating within 90-100% of the peak heat input rate based on the average ambient air temperature during the test. The(remainder of condition unaffected).

A person whose substantial interests are affected by this permit amendment may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under section 120.57 Florida Statutes.

The Petition shall contain the following information;

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

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

This permit amendment is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 62-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit amendment will not be effective until further Order of the Department.

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

This letter must be attached to and becomes a part of permits A052-253215A, A052-253216A, A052-253217A, and A052-253218A. you have any questions please call Mr. David Zell of my staff at (813) 744-6100, extension 118.

Sincerely,

W.C. Thomas, P.E.

Director Air Program Administrator

Southwest District

DRZ/

copies to:

Gary Robbins, Pinellas County Dept. of Environmental Management Charles Logan, FDEP BAR Tallahassee, Tile V Permit Section

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT AMENDMENT and

> FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Carof S. Mooce _



November 15, 1996

D.E.P.
NOV 21 1996

Day 1 is 11/18 (when revd) by Tall'2)

Mr. Clair Fancy Florida Department of Environmental Protection. 2600 Blair Stone Rd. Tallahassee, Florida 32399-2400

Dear Mr. Fancy:

Re: Air Construction Permit Application for Combustion Turbine Natural Gas Conversion

at FPC's Bartow Plant (DEP Permit Nos. AO52-253215, -253216, -253217, -253218)

This letter serves to transmit Florida Power Corporation's (FPC) application for an air construction permit to install natural gas-firing capability for combustion turbines at the above-referenced site. Please find enclosed four copies of the application, as well as a check in the amount of \$250.00 for the processing of this application.

FPC has the opportunity to use, on an interruptible basis, natural gas as a supplemental fuel in peaking units P1-P4 at Bartow Plant. Because the natural gas will be supplied on an interruptible basis, the currently permitted No. 2 fuel oil will continue to be the primary fuel for these units.

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

Sincerely,

Scott H. Osbourn

Senior Environmental Engineer

Enclosure

CC:

Jerry Kissel, DEP SW District Gary Robbins, Pinellas Co. DEM -

Ken Kosky, P.E., KBN

MEMORANDUM

Amended Operating Permits for:

Florida Power Bartow Peaking Units Nos. 1,2,3 and 4

(No PATS Processing Nos.)

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

June 14, 1995

District Air Administrator

THRU: Gerald J. Kissel, P.E.

District Air Engineer

FROM: John J. Taylor, P.E.

Air Permit Engineer

SUBJECT: Florida Power Corporation

Bartow Peaking Units Nos. 1,2,3 and 4

Location: Weedon Island, St. Petersburg

Amended Permits: A052-253215A, A052-253216A, A052-253217A, A052-253218A

Pats 90: Not Applicable

On June 21, 1994, the Scuthwest District Office received a request for renewal of DEP air pollution operating permits AO52-167173, AO52-167174, AO52-167175, and AO52-167172 for the operation of the Bartow Peaking Units Nos. 1, 2, 3 and 4, respectively.

These permits were renewed to operating permits A052-253215, A052-253216, A052-253217 and A052-253218, respectively and issued 11/23/94.

After release of these renewal permits, Mr. Scott Osbourn, Florida Power Corporation's Engineer called to ask about the testing specific condition which included the recommended policy language for testing of combustion turbines, which states "..shall be conducted with the turbine operating within 95-100% of the permitted heat input rate..." with the maximum permitted heat input rate being defined by the "..graph of Fuel Heat Input versus Ambient Temperature...".

FPC's position was that the 95-100% testing range was not reasonable for these old turbines, and provided the Department with related correspondence on this issue.

Recommendation:

I recommend that the attached amended permits be issued with the standard language used previously: 90-100% testing range, and submit them for your review and approval. These amendments also include revised language on the use of the words "PEAK' and "MAXIMUM", a revised turbine Fuel Heat Input versus Ambient Temperature performance curve, and other changes.



December 9, 1994

Mr. John J. Taylor Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619 D.E.P. DEC 19 1994

Dear Mr. Taylor:

Re:

Renewal of Air Operation Permits for FPC Combustion Turbine Peaking Units

Bayboro Peakers P1-P4 (FDEP Permit Nos. A052-167163, -167164, -167165, and -167166) Bartow Peakers P1-P4 (FDEP Permit Nos. A052-167172, -167173, -167174, and-167175)

On November 25, 1994, Florida Power Corporation (FPC) was in receipt of renewed operating permits for the above-referenced facilities. This letter serves to transmit FPC's comments upon review of the draft permits received.

FPC notes that, as requested, the Department has incorporated heat input vs. ambient temperature curves to the renewed permits. This is consistent with recent "draft" Department guidance and will make compliance determinations much more straightforward. FPC has noted an error in the labeling of the curves (i.e., the correct label should be heat input and not fuel flow) and is transmitting corrected versions (Attachment 1) with this letter.

This same "draft" Department guidance also suggests some tightening of the usual 90 to 100 percent operating range for compliance testing, as it is assumed that newer CTs can be operated more easily at or near maximum rates. This "draft" guidance further suggests that the maximum rate may need to be lowered slightly as the CT ages. FPC, through the Florida Electric Power Coordinating Group (FCG), has been working with the Department's Division of Air Resource Management on various aspects of the current draft guidance. The FCG's position, and FPC's comment in this regard, is that a tightening of the operating range is justifiable for newer CTs (i.e., those constructed after 1989), but that for older CTs, the current 90 to 100 percent operating range should still apply.

FPC has several additional minor comments and proposed changes regarding permit language. To assist in your review, FPC has attached a copy of the marked-up draft (Attachment 2).

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

Sincerely,

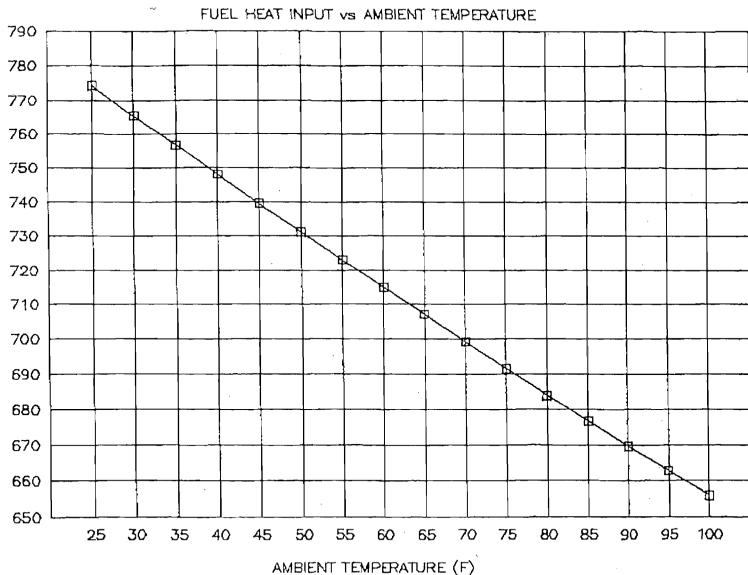
Scott H. Osbourn

Senior Environmental Engineer

Attachments

cc: Gary Robbins, Pinellas County

ATTACHMENT



PEAK

HEAT INPUT (MBTU/HOUR)

ATTACHMENT 2



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE: Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 Permit: AO52-253209 County: Pinellas

Expiration Date: 11-01-99
Project: Bayboro Peaking Unit

No. 2

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 56.7 MW. The unit is designated as the Bayboro Peaking Unit No. 2 and is composed of an Electric Machinery, Serial No. 371184701 electric generator driven by two Pratt & Whitney, Model No. FT4C-1LF gas turbines, designated as 2A (Engine Serial No. P686501, Turbine Serial No. P600400) and 2B (Engine Serial No. P686514, Turbine Serial No. P600401). The manufacturer's maximum tratings for the turbines is a function of the maximum (peak) heat input rate of the turbines is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbines utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

- fuel flow and hast input

Location: 13th Avenue and 2nd Street South, St. Petersburg

UTM: 17-338.80 km E 3071.27 km N

NEDS No: 0013 Point ID: 02

Replaces Permit A052-167164

Page 1 of 8

Florida Power Corporation St. Petersburg, Florida

Permit: A052-253215

Project: Bartow Peaking Unit

No. 1

SPECIFIC CONDITIONS:

NOTIFICATION REQUIREMENTS

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

REPORTING REQUIREMENTS

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-213.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year.

[Rule 62-210.370(2)(a)1., F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors
No. 2 Fuel Oil
Pounds per MMBtu

Particulate Matter (PM)	0_0 <u>61</u> (Total)
PM10	0.048PB 0.48
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued on Next Page)

Page 5 of 8

ATTACHMENT 2



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

PERMITTEE:

Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/PROJECT:

Permit: A052-253209 County: Pinellas

Expiration Date: 11-01-99

Project: Bayboro Peaking Unit

No. 2

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-2 through 62-297. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the operation of an oil fired, gas turbine driven electrical generating unit with a rated maximum capacity of 56.7 MW. The unit is designated as the Bayboro Peaking Unit No. 2 and is composed of an Electric Machinery, Serial No. 371184701 electric generator driven by two Pratt & Whitney, Model No. FT4C-1LF gas turbines, designated as 2A (Engine Serial No. P686501, Turbine Serial No. P600400) and 2B (Engine Serial No. P686514, Turbine Serial No. P600401). The manufacturer's maximum trating for the turbines is a saximum trating for the turbines in operate with one or both turbines in operation. The maximum (peak) heat input rate of the turbines is a function of the ambient temperature as shown on the graph of Fuel Heat Input versus Ambient Temperature included in this permit. The turbines utilize new, No. 2 fuel oil with a maximum sulfur content of 0.5%, by weight.

Location: 13th Avenue and 2nd Street South, St. Petersburg

UTM: 17-338.80 km E 3071.27 km N

NEDS No: 0013 Point ID: 02

Replaces Permit A052-167164

Page 1 of 8

"Protect, Conserve and Manage in this includes them in the Satural Resources"

Florida Power Corporation St. Petersburg, Florida

Permit: A052-253215

Project: Bartow Peaking Unit

No. 1

SPECIFIC CONDITIONS:

NOTIFICATION REQUIREMENTS

12. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which each compliance test is to begin. [Rule 62-297.340(1)(i), F.A.C.]

REPORTING REQUIREMENTS

13. Submit to the Southwest District Office, Air Compliance Section of the Department of Environmental Protection, and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DEP Form 62-213.900(5), "Annual Operating Report for Air Pollutant Emitting Facility", for the preceding calendar year.
[Rule 62-210.370(2)(a)1., F.A.C.]

The Annual Operating Report shall be based on the following:

- (1) The Btu heating value, sulfur content (percent by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis.
- (2) Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions (pounds per hour, and tons per year), for the Annual Operating Report, by multiplying the total MMBtu from fuel usage by the following emission factors:

Emission Factors No. 2 Fuel Oil Pounds per MMBtu

Particulate Matter (PM)	0.061 (Total)
PM10	0.048PM 0.48
Carbon Monoxide	0.048
Sulfur Dioxide	1.01s
Nitrogen Oxides	0.698
Hydrocarbons (TOC)	0.017

(Specific Condition No. 13, Continued on Next Page)

FLORIDA ELECTRIC POWER COORDINATING GROUP, INC. (FCG)

405 REO STREET, SUITE 100 • (813) 289-5644 • FAX (813) 289-5646

TAMPA, FLORIDA 33609-1004



Department a Environmental Protection SOUTHWEST DISTRICT

3Y _____

December 20, 1994

RECEIVED

DEC 20 1994

Clair E. Fancy, P.E., Chief Bureau of Air Regulation Department of Environmental Protection 111 South Magnolia Street, Suite 29 Tallahassee, FL 32399-2400

Bureau of Air Regulation

RE:

Draft Guidance Memoranda on "Rate of Operation During Compliance Testing for Combustion Turbines"

Dear Clair:

I am writing on behalf of the Florida Electric Power Coordinating Group, Inc. (FCG) in response to the Department's ongoing efforts to develop interpretive guidance on the referenced subject. The FCG has previously addressed this issue in a letter dated April 5, 1994 (attached) and in a meeting with you and members of your staff held on April 19, 1994. The FCG continues to have a strong interest in this subject. As discussed below, the FCG believes that guidance on the heat input rate during combustion turbine (CT) compliance testing is welcome and appropriate. Guidance requiring correction of emission rates to "ISO" conditions for CTs is neither warranted nor appropriate, however.

The FCG understands that the Department originally identified a need for special guidance on heat input rate during compliance testing after the initial testing of recently constructed CT (and combined cycle) units. Specifically, the effect of variation in ambient temperature on CT performance raised questions about the acceptability of some compliance tests and the relationship of the tested heat input rate to the "maximum permitted" rate. The particular significance of these issues to CTs was explicitly recognized in the Department's draft guidance memorandum of November 22, 1993.

Continuing questions suggest that general interpretive guidance from the Division Director would still be appropriate on this subject. The FCG's position remains as stated in its April 5, 1994 letter. Such guidance should: 1) recognize the effect of ambient condition variations on maximum CT heat input rates; and 2) provide for correction of heat input rates based on the difference between ambient conditions assumed in establishing maximum permitted heat input rates and those conditions actually experienced during compliance testing.

Clair E. Fancy, P.E. December 20, 1994 Page 2

A recent "draft" version of Department guidance on these CT compliance issues also suggests some tightening of the usual 90 to 100 percent operating range for compliance testing, as it is assumed that newer CTs can be operated more easily at or near maximum rates. The "draft" guidance further suggests that the maximum rate may need to be lowered slightly as the CT ages. The FCG's position is that a tightening of the operating range may be justifiable for newer CTs (i.e., those constructed after 1989), but that for older CTs, the current 90 to 100 percent operating range should still apply. In addition, whether the permit establishes 90 or 95 percent of maximum (corrected) heat input as the presumptive minimum for compliance testing, the Department's guidance should allow for testing at lower heat input rates with the traditional condition that subsequent operation would be limited to 110 (or 105) percent of the tested heat input rate (after correction) until compliance is demonstrated at a higher rate.

The FCG also stands by its April 5, 1994 letter with respect to the second aspect of the draft guidance memoranda concerning correction of measured emission rates to "ISO" conditions. While "ISO" correction is specified in the Subpart GG regulations for performance testing to demonstrate compliance with the NSPS emission limits for CTs, there is no legal or technical basis for imposing this approach in the case of far more stringent BACT emission limits established independently in Department PSD permits. These BACT emission limits typically resulted from considerable negotiation between the Department and the permit applicant. The BACT limits are based on a variety of assumed ambient conditions (ranging from 40°F or lower to 75°F or higher) depending on the information and manufacturers data available at the time of permitting. It would be inappropriate for the Department to encourage that these limits be reopened, in effect, by "interpretive guidance" arbitrarily and retroactively requiring correction of all emission test results to "ISO" conditions. Moreover, the "ISO" correction approach, which was developed for 1970s-vintage aircraft gas turbines, is simply not a meaningful methodology for some of the current generation of CTs when BACT emission limits are specified on a concentration (ppm) basis. For these reasons, the FCG strongly recommends that any guidance regarding CTs be limited to the heat input rate subject.

As always, the FCG appreciates the opportunity to provide input on this matter. Should you or members of your staff have any questions on the FCG's position, please do not hesitate to call Peter Cunningham at (904) 425-2205 or me.

Sincerely,

Dwain Waters, Chairman FCG Air Subcommittee

Dewain Waters

Enclosure

Clair E. Fancy, P.E. December 20, 1994 Page 3

cc: FCG Air Subcommittee

Peter Cunningham, HBGS

47807

GARY ROBBINS - PCDEM AQD. 12/27/94

MEMORANDUM

Renewal Operating Permits for:

Florida Power Bartow Peaking Units Nos. 1,2,3 and 4
(PATS Processing Nos. 253215, 253216, 253217, and 253218)

TO:

W.C. Thomas, P.E.

November 9, 1994

District Air Administrator

THRU:

Gerald J. Kissel, P.E. District Air Engineer

FROM:

John J. Taylor, P.E.

Air Permit Engineer

SUBJECT: Florida Power Corporation

Bartow Peaking Units Nos. 1,2,3 and 4

Location:

Weedon Island, St. Petersburg

County:

Pinellas

Pats 90:

November 30, 1994

On June 21, 1994, the Southwest District Office received a request for renewal of DEP air pollution operating permits A052-167173, A052-167174, A052-167175, and A052-167172 for the operation of the Bartow Peaking Units Nos. 1, 2, 3 and 4, respectively.

These permits have been renewed to operating permits AO52-253215, AO52-253216, AO52-253217 and AO52-253218, respectively.

These renewal permits include the recommended language for testing of combustion turbines, which includes "...shall be conducted with the turbine operating within 95-100% of the permitted heat input rate...." with the maximum permitted heat input rate being defined by the "..graph of Fuel Heat Input versus Ambient Temperature...".

The graph of Fuel Heat Input versus Ambient Temperature for each Peaking Unit's combustion turbine is included in each permit and is made a part of each permit.

Recommendation:

The PCDEM and I recommend that the renewal permits be issued, and submit them for your review and approval.

(Coordinated with Gary Robbins - PCDEM)

JERRY

I REVISED S.C. NO. 10 IN ALL THE PERMITS TO INCLUDE ...'FOR EVERY DELIVERY'... THIS IS CONSISTENT WITH THE WORDING IN THE OLD PERMITS. I FAXED A COPY TO SCOTT OSBOURN OF FLORIDA POWER ON 11-10-94 AND HE HAD NO PROBLEM WITH IT.

HOWEVER, SCOTT HAD SOME OTHER CONCERNS. I HAVE ADDRESSED HIS NEW CONCERNS AND RE-FAXED A COPY OF ONE PERMIT TO HIM ON 11-16-94 AND I AM AWAITING HIS REPLY..

ONE CHANGE I MADE IS TO ADD THE WORD ...'PEAK'.. TO BE USED WITH THE WORD 'MAXIMUM' SO THAT THE WORDS MATCH UP WITH THE WORD 'PEAK' USED ON THE GRAPH SUPPLIED BY FLORIDA POWER. I ALSO HAVE USE THE WORDS ...'MANUFACTURER'S RATING...' VERY CAREFULLY.

I HAVE AVOIDED THE ISO CONDITIONS REFERENCED IN THE POLICY STATEMENTS AND THE LINEAR CALCULATIONS REFERENCE BY CHUCK COLLINS (I THINK?) BECAUSE I AM NOT TOO SURE THAT ALL THIS IS NECESSARY AND I AM NOT TOO SURE THAT THESE REFERENCES TO ISO CONDITIONS AND LINEARITY ARE EVEN ACCURATE.

I SUGGEST YOU RE-PROOF READ THESE REVISED PERMITS NOW, AND IF SCOTT CALLS BY NEXT TUESDAY I WILL LET YOU KNOW IF I NEED TO REVISIT THIS AGAIN.

PATS 90 = NOVEMBER 30

JOHN TAYLOR 11-17-94

__/__/__

K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - - L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - - - -

COMMENTS:

PERMIT APPLICATION FEE/ASSIGNMENT SHEET

	H151 953
APPLICATION TYPE: AO 1A	FILE PROCESSING NO:
COMPANY: FLA FOWER	COUNTY: 52 PINELLAS
DESCRIPTION/COMMENTS: BARTOW	PEAKING UNIT
RENEW 1052-16	
(amend/extend/transfer/etc.) and p	permit no., when applicable
DATE REC'D (Day 1): $6/21/94$	
CHECK ATTACHED: Y Not Requi	ired () (TITLE I, NOT NSPS)
FEE SUBMITTED: () correct () incorrect - Should Be \$ Submitted \$
FEE CHECKED BY: DAT	Needed/Refund \$
APPLICATION ASSIGNED TO:	976 DATE: 7-5-94
PERMIT APPLICATION	PROCESSING STATUS
	<u>Completed</u> <u>Initials</u>
Date PATS Updated With Processor N	Name: 7-6-94
Permit Engineer Submit Finished Permit Package & Recommendations t District Air Engineer:	11-9-94 (490)
Permit Package to District Air Administrator:	11/17/99 gg
Permit Package to Director of District Management:	11/12/94 /
Permit Package Mailed Out:	MOV 23 1994
<u> </u>	`.
DATA FOL	LOW UP
Issue Date Updated on PATS:	NOV 23 1994 MQ
Updated on DEC:	



August 31, 1994

Mr. John J. Taylor Air Permit Engineer Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Dear Mr. Taylor:

Re:

Renewal of Air Operation Permits for FPC Combustion Turbine Peaking Units

Bayboro Peakers P1-P4 (FDEP Permit Nos. A052-167163, -167164, -167165, and -167166) Bartow Peakers P1-P4 (FDEP Permit Nos. A052-167172, -167173, -167174, and -167175)

On June 21, 1994, the Department was in receipt of Florida Power Corporation's (FPC) permit renewal applications for the eight peaking units listed above. The applications were reviewed by the Department and in a subsequent letter to FPC, dated July 21, 1994, deemed incomplete. The Department's letter stated that, in order to continue processing these applications, a Professional Engineer (PE) must either sign and seal each application or provide a Professional Engineer Certification statement.

Enclosed please find Professional Engineer Certification statements prepared by Mr. Ken Kosky of KBN Engineering and Applied Sciences, Inc. Two certification statements were prepared, one for each of the two sites referenced above.

If you should have any questions regarding the enclosed, please do not hesitate to contact me at (813) 866-5158.

Sincerely,

Scott H. Osbourn

Senior Environmental Engineer

Enclosure

EC:

Gary Robbins, Pinellas County

Ken Kosky, KBN

OPERATION PERMIT RENEWAL PROFESSIONAL ENGINEER CERTIFICATION

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

Company Name:

Florida Power Corporation

Bartow Peaking Units

Source ID:

FDEP Files: 253215, 253216, 253217, and 253218

County:

Pinellas

Renewal of DER Permit Nos.:

AO52-167172, AO52-167173, AO52-167174,

and AO52-167175

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

This is to certify that the engineering features of this pollution source(s) have been examined by me and found to be in conformity with good engineering principles which provide reasonable assurance, in my professional judgment, that the pollution source(s), when properly maintained and operated, will discharge an effluent that complies with all applicable Statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution source(s).

Signed_

signed_

Kennard F. Kosky

Name (Please Type)

Affix Seal

KBN Engineering and Applied Sciences, Inc.
Company Name (Please Type)

1034 NW 57th Street, Gainesville, FL 32605
Mailing Address (Please Type)

Florida Registration No.	14996
Date <i>August 30, 1994</i>	
Telephone No. (904) 331-9000	

DER FORM 17-1.202(4) ----attachment

(Effective 10-01-88) (Revised 04-10-91)

DER Form &	
Form Tibe	
Effective Date	
DER Application No	(Filled in DV DEP)

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

If major alterations have occurred, the a Permit Application Form.	pplicant should complete the Standard Air
Source Type: Combustion Turbine	Renewal of DER Permit No. AO-52-167172
Company Name: Florida Power Corporation	County: Pinellas
Identify the specific emission point source(s) Kiln No. 4 with Venturi Scrubber; Peaking Unit Bartow Peaking Unit #4	addressed in this application (i.e., Lime No. 2, Gas Fired):
Source Location: Street: Weedon Island	City: St. Petersburg
UTM: .East 342180	North 3082870
Latitude: 2 7° 5 1' 3 5"N.	Longitude: 8 2° 3 6' 0 9'W.
 Attach a check made payable to the Departm with operation permit fee schedule set 17-4.05. No fee required. 	ent of Environmental Regulation in accordance forth in Florida Administrative Code Rule
2. Have there been any alterations to the pla If minor alterations have occurred, descri	nt since last permitted? [] Yes $[x]$ No be on a separate sheet and attach.
3. Attach the last compliance test report requirements previously. Compliance test performed o	
4. Have previous permit conditions been adher separate sheet and attach.	ed to? [x] Yes [] No If no, explain on a
5. Has there been any malfunction of the poll rent permit? [] Yes [] No If yes, an and what action was taken on a separate sh	ution control equipment during tenure of curd not previously reported, give brief details eet and attach. $_{ m N/A}$
6. Has the pollution control equipment been ciency last permitted by the Department?	maintained to preserve the collection effi- [] Yes [] No $$\rm N/A$$
7. Has the annual operating report for the la	st calendar year been submitted? [x] Yes

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

Page 1 of 2

No If no, please attach.

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

Description	Contaminant		Utilization			
	Туре		%W t	Rete		lbs/hr
,						
B. Product Weight (lbs/hr):			`		
					• • • •	

•	F	١.
С.	Fue:	LS

: Туре	nuanoĵ	nption*	Maximum Heat
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/hr)
No. 2 Fuel Oil	121	121	7141

D.	Normal Equipment Operating Time: $hrs/day = \frac{24}{3}$; $days/wk = \frac{7}{3}$; $wks/yr = \frac{52}{3}$;
	hrs/yr (power plants only) 8760; if seasonal, describe
	<u> </u>

The undersigned owner or authorized representative*** of Florida Power Corporation is fully aware that the statements made in this application for a renewal of a permit to and belief. Further, the undersigned agrees to maintain and operations of Chapand pollution control facilities in such a manner as to comply with the provisions of Chapater 403, Florida Statutes, and all the rules and regulations of the Department. The also understands that a permit, if granted by the Department, will be non-transferable and the will promptly notify the Department upon sale or legal transfer of the permitted facilities.

*During actual time of operation.

**Units: Natural Gas-MMCF/hr;

Signature, Owner or Authorized Capater and Title Wrograme.

**Units: Natural Gas-MMCF/hr;

W. Jeffrey Pardue, C.E.P., Manages-Environmental operate an air pollution source are true, correct and complete to the best of his knowledge

*During	actual	time	οf
operat	ion.		

DER Form 17-1.202(4)

Effective

OFFICIAL NOTARY SEAL	. [
MARYJANE R BLAIN		
NOTARY PUBLIC STATE OF FL	ORIDA	-
COMMISSION NO. CC3732	34	l
COMMISSION NO. COMO	1000	ı
MY COMMISSION EXP. JUNE	ו סעעונס	

florailing 5	£ _ @ 6
Signature, Owner or Authorized இத்திரு	th ive
(Notarization is mandatery	12 B
W. Jeffrey Pardue, C.E.P., Manager-Environ	ionmenta
Typed Name and Title Trogs	ame of
P. O. Box 14042, MAC H2G	Eliga
Address	111981
St. Petersburg, FL 33733	· · ·
, City State	Zip
20 June 1994 (813) 866-4387	

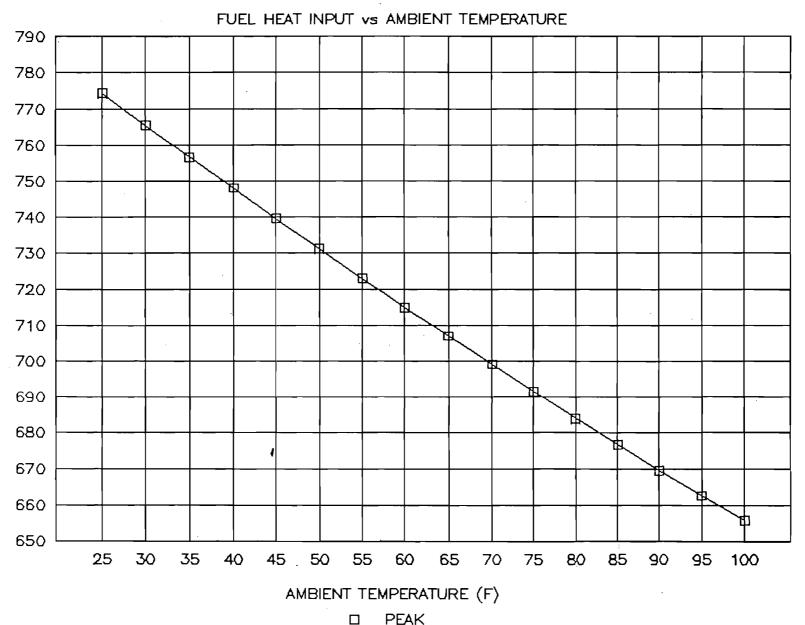
Page 2 of 2

Telephone No.

^{***}Attach letter of authorization if not previously submitted

 $^{^{\}mathrm{1}}$ Based on 59 $^{\mathrm{\circ}}$ F reference temperature

BARTOW P4 COMBUSTION TURBINE





BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

DEP

JUL 25 1994

UUU THWEST DISTIN TAMPA

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

BRUCE TYNDALL - CHAIRMAN BARBARA SHEEN TODD - VICE CHAIRMAN SALLIE PARKS.

CHARLES E. RAINEY STEVE SEIBERT

July 21, 1994

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

Florida Power, Bartow Peaker No. 4, Permit No. A052-2532215

Mr : Taylor:

This office has reviewed Florida Power's application for renewal of permit for the above mentioned facility. The application is deemed incomplete due to:

This is a major source at a major facility, and is required to be signed and sealed by a PE.

Once this issue is resolved and DEP determines a permit should be issued, the following recommendations are suggested:

- The current permit does not restrict the sulfur content of the The County recommends that 0.5% by weight sulfur limitation, be placed in the permit. This is the same limitation found in the Florida Power, Higgins Peaking Units! Without a SO2 limit, the calculation of fees is permits. difficult.
- In Specific Condition No. 7; include, as part of the letter requesting test waiver, a requirement to include the number of hours fuel oil was burned and a copy of the fuel oil analysis.

A draft permit is attached for your consideration.

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

Sincerely,

Gary Robbins, Environmental Program Manager

Air Quality Division

cc: RF, PF

AQC\FLPOW215.PER

Florida Power - Bartow Peaking Unit No. 4

Permit: AO52-253215

Electric Utility Turbines

Fuel Usage

1 del Osage		
-	No. 2 Fuel Oil	Natural Gas
BBL/hour	121	
Gallons/hour	5082	
MMcf/hour		NA
MMBtu/hr	714	
SO2 %	0.5	
Hours/year	8760	

Emissions Table Fuel Oil*

	lb/hour	Tons/year	lb/MMBtu
Particulate	43.55	190.77	0.061
PM10	20.91	91.57	0.02928
CO	34.27	150.11	0.048
SO2	360.57	1579.30	1.01S
NOx	498.37	2182.87	0.698
Hydrocarbons	12.14	53.16	0.017

Emissions Table Natural Gas

	lb/hour	Tons/year
Particulate	0.00	0.00
CO	0.00	0.00
SO2		0.00
NOx	0.00	0.00
Hydrocarbons	0.00	0.00

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: A052-2532215

County: Pinellas

Expiration Date: August 21, 1994 Project: Bartow Peaking Unit No. 4

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

For the operation of an oil fired, gas turbine driven electrical generating unit, designated as Bartow Peaking Unit No. 4. The peaking unit is composed of a General Electric Company, Serial No. 335X118 electric generator, driven by a General Electric Company, Model MS 7000, Serial No. 217712 gas turbine. The turbine is fired on new No. 2 fuel oil, at a maximum rate of 121 barrels/hour or 714 MMBtu/hour. The maximum sulfur content of the new No. 2 fuel oil shall not exceed 0.5% by weight. The unit is rated at a maximum electrical generating capacity of 55.7 MW. This unit's daily maximum performance is a function of ambient temperature, as shown in the attached graph of heat input versus ambient temperature.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-336.5 E 3098.3 N NEDS NO: 0011 Point ID: 08

Replaces Permit No.: A052-167172

Page 1 of 4

PERMITTEE: Florida Power Corporation

218

Permit No.: A052-2532215
Project: Bartow Peaking

SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Visible emissions from Bartow Peaking Unit No. 4 shall not be equal to or greater than 20% opacity. [Rule 17-296.310(2)(a), F.A.C.]
- Test Bartow Peaking Unit No. 4 for visible emissions annually within 60 days prior to February 1. The visible emissions compliance test could be waived, on a year by year basis, if fuel oil has not been used to fire this peaking unit for more than 400 hours for the previous 12 months and if it is not expected to be used to fire this peaking unit for more than 400 hours during the next 12 months. Florida Power Corporation shall maintain records on site for the hours this peaking unit operates. Each year, when the VE test is due, a letter must be sent to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, stating that the above limitations for the waiver have been satisfied. Regardless of fuel usage, a VE test shall be required and conducted during the 6 month period prior to the submittal of an operation permit renewal application. The test report shall be submitted within 45 days of testing to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division. [Rule 17-297.340, F.A.C.]
- 4. Compliance with the visible emission limitation of Specific Condition No. 2 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions test shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The minimum requirements for source emission test procedures and reporting shall be in accordance with Rule 17-297, F.A.C.
- 5. Testing of emissions shall be conducted with the source operating within 95-100% of permitted heat input. The maximum permitted heat input is defined by the graph of "Ambient Temperature" versus "Fuel Flow", submitted with the 6/20/94 renewal application for Peaking Unit No. 4. This graph is made a part of this permit. A copy of the this graph, noting the maximum heat input versus ambient temperature, during the compliance test, shall be included in the compliance test report. [Rule 17-4.070(3), F.A.C.]
- 6. The Permittee shall notify the Pinellas County Department of Environmental Management, Air Quality Division, in writing at least 15 days prior to the date on which the compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).

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Page 2 of 4

PERMITTEE: Florida Power Corporation

Permit No.: A052-2532215 Project: Bartow Peaking Unit No. 4 7. Bartow Peaking Unit No. 4 is permitted to operate at the following parameters:

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

- 1. Maximum Load Rate 55.7 MW/hour
- 2. Maximum Heat Input Rate: 714 MMBTU/hour
- 3. Maximum Fuel Usage: 121 BBL/hour new No. 2 fuel oil having a maximum sulfur content not to exceed 0.5% by weight
- 8. The BTU heating value, sulfur content (% by weight), API gravity and density of the fuel being fired in the peaking unit, shall be based on a weighted 12 month average (calendar year) and be calculated from the fuel delivery receipts and the vendor's fuel oil analysis. This average shall be used to calculate the sulfur dioxide emissions for the Annual Operating Report. To ensure the vendor's fuel oil analysis is accurate, Florida Power Corporation shall perform at least one audit sample analysis from a fuel oil delivery during the 12 month period. Records must be kept for a minimum of two years and be made available for inspection upon request.
- 9. Submit to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division, each calendar year on or before March 1, completed DER Form 17-213.900(4), "Annual Operating Report for Air Pollutant Emitting Facility," for the preceding calendar year.
 [Rule 17-210.370(2)(a)1., F.A.C.]
- 10. Based on the original permit application, and AP 42 emission factors, the following are the maximum potential emission rates expected from this peaking unit, and are included for informational purposes only:

1	pounds/hour	tons/year
Particulate	43.55	191.77
PM10	20.91	91.57
Carbon Monoxide	34.27	150.11
Sulfur Dioxide	360.57	1,579.30
Nitrogen Oxides	498.37	2,182.87
Hydrocarbons	12.14	53.217

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

Page 3 of 4

218

PERMITTEE: Florida Power Corporation Permit No.: A052-2532215
Project: Bartow Peaking
Unit No. 4

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power

Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following emissions factors:

No. 2 Fuel Oil Pounds/MMBTU

Particulate	0.061
Carbon Monoxide	0.048
Nitrogen Oxides	0.698
Sulfur Dioxide	140s.*
VOC	5.57

* s denotes sulfur content, % by weight

Emission factors are from AP 42, Table 3.1-1 (7/93).

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

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

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

Page 4 of 4



Department of Environmental Protection

Lawton Chiles Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

Mr. W. Jeffrey Pardue, C.E.P. Manager Environmental Programs Florida Power Corporation Post Office Box 14042, MAC H2G St. Petersburg, Florida 33733

July 21, 1994

Dear Mr. Pardue:

RE: (8) Permit Renewal Applications

Bayboro Peaking Units No. 1, No. 2, No. 3, and No. 4
(D.E.P. Files: 253207, 209, 211, and 213)
Bartow Peaking Units No. 1, No. 2, No. 3, and No. 4
(D.E.P. Files: 253215, 216, 217, and 218)

On June 21, 1994, the Department received your permit renewal applications for the (8) peaking units listed above. The applications have been reviewed and have been deemed incomplete for the following reason:

1. All (8) applications must be signed and sealed by a Professional Engineer registered in the State of Florida [Rule 17-4.050(3), Florida Administrative Code].

Enclosed is a copy of each of the (8) applications received by the Department on June 21, 1994. Please have a Professional Engineer either sign and seal each application, or provide a Professional Engineer Certification statement, either one statement for all (8) applications, or (8) separate statements. The statement(s) must be signed and sealed by a Professional Engineer registered in the State of Florida.

If you have any questions, please call me, at this Department, at (813) 744-6100, ext. 408.

A copy of your response should also be sent to Mr. Gary Robbins, Environmental Program Manager, Air Quality Division, Department of Environmental Management, Pinellas County.

(Continued on Next Page)

Page 1 of 2

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

Mr. W. Jeffrey Pardue, C.E.P. Florida Power Corporation

July 21, 1994

Your response is requested by August 30, 1994. This information is required in order for the Department to continue processing your applications.

"NOTICE: Pursuant to the provisions of Section 120.60, F.S. and Chapter 17-12.070(5), F.A.C., if the Department does not receive a response to this request for information within 90 days of the date of this letter, the Department may issue a final order denying your applications. You need to respond to the information requested, or indicate when a response will be submitted.

Sincerely,

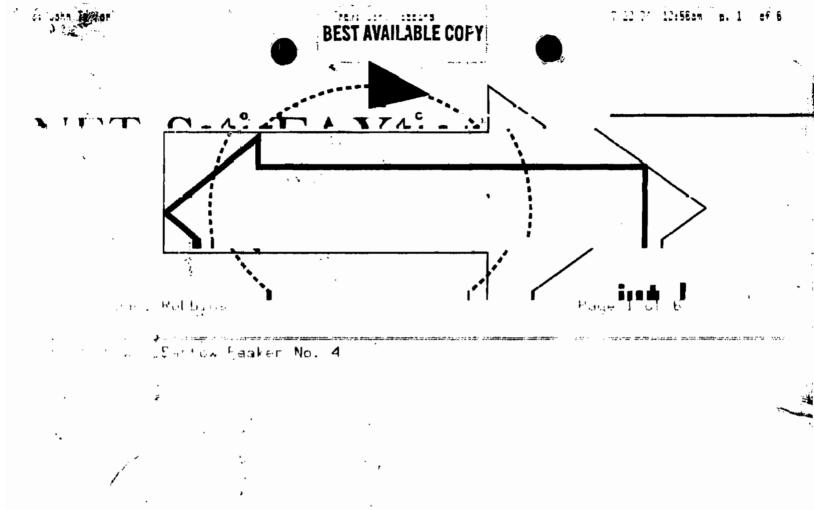
John J. Taylor P.E.

Air Permit Engineer

Enclosures

copy: Mr. Gary Robbins - PCDEM

fpc94xxx.il1



July 21, 1994

Mr. John Taylor
Thyarthern of Environmental Protection
2014 Crasmut Palm Drive
Theya, Therydo 20019 8018

MAL Flirida Fower, Bartow Peaker No. 4, Permit No. ADF2 1532515 Well Paylon.

I is office has reviewed Florida Power's application for renewal of the leta major source at a major radility, and is required to see eighed and sealed by a PE.

Threship is also resolved and DEP determines a permit should be the state of the st

The process permit does not restrict the sulfur content of the field of The County recommends that 0.5% by weight sulfur collists. he placed in the permit. This is the same limitation found in the Florida Power, Higgins Feaking Units generate. Without a SO2 limit, the calculation of fees is difficult.

In Specific Condition No. 7, include, as part of the letter requesting test waiver, a requirement to include the runker of this field oil was burned and a copy of the fuel oil analysis.

so west probability attached for your consideration.

of politions of y guestions, please call me at (813) 464-4421 (Sancom 87 4422).

Sizz eraly,

Tay jako Alexa

Control Fingish Madayer

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FERMITTEE:

Florida Power Componation Frot Office Box 14042 et. Patershamy, Florida 33733

PERMIT/CERTIFICATION

Permit No: AC52-2532-15

County: Finellas

Expiration Date: August 21, 1994 Project: Bartow Peaking Unit No. 4

The permit remainent is issued under the provisions of Chapter 403. The Statiles and Florida Administrative Code Rules 17-200 through 100 100-4. The whove named permittee is hereby authorized to perform the with an operate the facility shown on the application and approved lowing a plans and other documents, attached hereto or an file with the Tapart end and made a part hereof and specifically described as fullows:

Firstlet operation of an oil fired, gas turbine driven electrical greatiting soil designated as Bartow Peaking Unit No. 4. The peaking sit is composed of a General Electric Company, Serial No. 335X118 soirie generated driven by a General Electric Company, Model MS 1.0, famial No. 317712 gas turbine. The turbine is fired on new No. 2 little at a randomnarrate of 121 barrels/hour or 714 MMBtu/hour. The it as salfit content of the new No. 2 fuel oil shall not exceed 1.5% if weight. The unit is rated at a maximum electrical generating lighting of 51.7 MW. This unit's daily maximum performance is a finish on of antismt temperature, as shown in the attached graph of heating the versus achiest temperature.

I with man Weedon Island, Sc. Petersburg, Pinellas County

U.M.: 1/4837.15 M \$703.3 N NEDS NO: 6011 Foint ID: 68

W. E. Freich M. F. L.S. 167172

ETTER TO A CONTRACTOR



Unit No. 4

FIR THE TENDETIONS:

permit is the attached 15 General Conditions.

The file emissions from Bartow Peaking Unit No. 4 shall not be equal to the control of the hours that the peaking of the Air Section of the Department's Southwest District Office and the Emellas County Department of Environmental Management, Air that I well as the Air Section of the above limitations for the waiver have the control of the Department of Environmental Management, Air that I well as County Department of Environmental Management, Air that I well as the control of the above limitations for the waiver have the control of the cont

in a property of the conducted within the source operating in the complete conducted heat input. The maximum permitted heat the conduction of the district of the conduction for Peaking That is a conducted to the f/20/94 renewal application for Peaking That is a conducted a part of this permit. A copy of the city of the conducted temperature, during the conducted temperature, during the conducted test reports to the compliance test reports to the conducted test reports the conducted test reports

The seminary shall motify the Pinellas County Department of from each be Management, Air Quality Division, in writing at least 19 and 19 are last on which the compliance test is to pegun Puls 1, 17 kg and 1 F.A.C. .

Froject: Bartow Feaking
Unit No. 4

Faller 1 1 1 1 1 1

Paint of Packing This No. 4 is permitted to operate at the following complete:

A. Sportie & Argeneral

1. Mainess Load Rate 55.7 MW/hour

2. Mid-in Her Imput Rate: 714 MMBTU/hour

Muminion Angle Usage: 121 BSL/hour new No. 2 fixel pil

The TTU leafure value, sulfur content of by weight, AFI gravity is resely of the feet being fired in the peaking unit, shall be mased wrighted in a calculated from the leafure of the vertical firm the leafure of the vertical firm





June 20, 1994

Mr. Jerry Kissel District Air Engineer Florida Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Dear Mr. Kissel:

Re: Renewal of Air Operation Permits for Florida Power Corporation (FPC) Combustion Turbine Peaking Units

ool3 Bayboro Peakers P1-P4 (FDEP Permit Nos. AO52- 167163, -167164, -167165, and -167166)

0011 Bartow Peakers P1-P4 (FDEP Permit No. AO52- 167172, 167173, -167174, and -167175)

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Department of Environmental Management, Air Quality Division, dated April 26, 1994, providing notification that the above-referenced permits are due to expire on August 21, 1994. This letter serves to transmit the permit renewal applications (three copies of each) for the Bayboro and Bartow peaking units P1 through P4.

Unlike boiler steam units, combustion turbine (CT) performance is directly affected by ambient temperature conditions. By convention, CT capacities are expressed in terms of a unit's capability at a given reference temperature (e.g., typically at 59°F). However, the unit's overall performance is much more accurately described by its heat input versus ambient temperature curve. The highest performance occurs at the lowest ambient temperature. Depending on ambient temperature, it is possible to operate at less than 90 percent or greater than 100 percent of the maximum permitted heat input rate currently stated in the permit. Therefore, please find enclosed graphs of the maximum heat input versus ambient temperature for each of the Bayboro and Bartow peaking units. These curves were derived from performance data obtained from the units while operating at peak load.

ENVIRONMENTAL SERVICES DEPARTMENT

Mr. Jerry Kissel June 20, 1994 Page 2

FPC requests that the curve for each peaking unit be incorporated into its operating permit. No physical changes or changes in the method of operation have occurred. The units have always had the capability to operate in the ranges given by the heat input curves. The curves were not submitted in the original permit application; only the capability at a given reference temperature was provided at that time. The incorporation and use of these curves will take into account the units' variable performance with ambient temperature and provide agency personnel with a reliable enforcement tool. Each unit would be in compliance with its permit as long as its heat input is under the curve at the appropriate ambient temperature.

If you should have any questions or require clarification of the enclosed, please do not hesitate to contact Mr. Scott Osbourn of my staff at (813) 866-5158.

Sincerely,

W. Jeffrey Pardue, C.E.P.,

Manager, Environmental Programs

Enclosure

cc: Gary Robbins, Pinellas Co.

MEMORANDUM

TO: File

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

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardson

DATE: January 24, 1990

SUBJECT: Pinellas County - AP

Florida Power Corporation

Bartow Peaking Units No. 1, 2, 3, & 4

A052-167173, A052-167174, A052-167175, & A052-167172

These permit amendments are a result of the meeting held in this office on October 16, 1989 between the Department, the Pinellas County Department of Environmental Management and Florida Power Corporation. The following amendments are hereby made in all four permits:

SPECIFIC CONDITION NO. 4.

Change from:

4. Test the peaking unit for visible emissions at intervals of 12 months from the date August 3, 1989, if the peaking unit operated more than 400 hours during the preceding 12 month period, pursuant to Subsection 17-2.700(2)(a)8., F.A.C. Submit a copy of test data to the Air Sections of the Southwest District Office and the Pinellas County Department of Environmental Management within forty-five days of such testing (Section 17-2.700(2), Florida Administrative Code (F.A.C.)).

Change to:

4. Test the peaking unit for visible emissions annually between the dates of December 1, and February 28, if the peaking unit operated more than 400 hours during the preceding 12 month period, pursuant to Subsection 17-2.700(2)(a)8., F.A.C. Submit a copy of test data to the Air Sections of the Southwest District Office and the Pinellas County Department of Environmental Management within forty-five days of such testing (Section 17-2.700(2), Florida Administrative Code (F.A.C.)).

SPECIFIC CONDITION NO. 7.

Change from:

7. Maintain monthly records for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per Specific Condition No. 4, submit these records at twelve month intervals from the date of August 3, 1989 to this office and the Pinellas County Department of Environmental Management, Air Quality Division in lieu of the visible emission compliance test.

Change to:

7. Maintain monthly records on site for the hours this peaking unit operates. If the peaking unit operated less than 400 hours per calendar year, submit these records in lieu of testing to this office and the Pinellas County Department of Environmental Management, Air Quality Division.

SPECIFIC CONDITION NO. 8.

Change from:

- 8. Fuel oil quality is to be monitored prior to delivery and a sample taken for each day of operation for a monthly composite analysis. The monthly fuel oil composite sample is to be analyzed for the following:
 - a. BTU content
 - b. API Gravity
 - c. Density
 - d. Sulfur Content by weight

as per Subsection 403.061(13), Florida Statutes.

Change to:

- 8. Fuel oil quality is to be analyzed prior to each delivery. The fuel oil sample is to be analyzed for the following and the analysis kept on site for future inspections:
 - a. BTU content
 - b. API Gravity
 - c. Density
 - d. Sulfur Content by weight

as per Subsection 403.061(13), Florida Statutes.

SPECIFIC CONDITION NO. 9.

Change from:

9. Compliance testing of emissions shall be accomplished while operating the peaking unit at 90--100% of the permitted capacity stated in Specific Condition No. 10. A compliance test submitted at operating rates less than 90% of the permitted capacities will automatically constitute an amended permit at the lesser rate. The permittee shall submit a statement of the operating mode and a copy of the fuel oil analysis as a part of the compliance test. Failure to submit the operating mode statement, fuel oil analysis and actual operating conditions may invalidate the test (Section 403.161(1)(c), Florida Statutes).

Change to:

9. Compliance testing of emissions shall be accomplished while operating the peaking unit at $100\% \pm 10\%$ of the permitted capacity stated in Specific Condition No. 10. A compliance test submitted at operating rates less than 90% of the permitted capacities will automatically constitute an amended permit at the lesser rate. The permittee shall submit a statement of the operating mode and a copy of the fuel oil analysis as a part of the compliance test. Failure to submit the operating mode statement, fuel oil analysis and actual operating conditions may invalidate the test (Section 403.161(1)(c), Florida Statutes).

SPECIFIC CONDITION NO. 10.

Change from:

10. Based on the compliance test conducted on August 3, 1989 this peaking unit is permitted to operate at 43 MW/hour and 66 barrels/hour of new No. 2 fuel oil. If the peaking unit exceeds this permitted level by 10%, a compliance test must be conducted within 10 days, following Specific Conditions No. 4, 5 and 6.

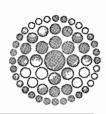
Change to:

10. Based on the compliance test conducted on August 3, 1989 this peaking unit is permitted to operate at 43 MW/hour and 66 barrels/hour of new No. 2 fuel oil. If the peaking unit exceeds this permitted level by 10%, a compliance test must be conducted within 15 days, following Specific Conditions No. 4, 5 and 6.

SPECIFIC CONDITION NO. 11.

Part (B), third line, "provis" should be "provide"





D.E.R.

1,

NOV 15 1989

Florida Power SOUTHWEST DISTRICT TAMPA

November 13, 1989

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

Dear Dr. Garrity:

Re: Review of Draft Air Permit - Bayboro P1-P4, AO-52-167163 to 167166, and Bartow P1-P4, AO-52-167172 to 167175

Florida Power Corporation received the above draft permits on November 2, 1989.

A review was made of this draft permit. Listed below are our comments and recommendations:

Page 1 of 2

Specific Condition No. 4

Replace a period with a comma after February 28.

Specific Condition No. 10

In the original write-up, change notification of test to 15 days.

Dr. Richard D. Garrity Page 2 November 13, 1989

Should further information be needed in regards to these changes, feel free to contact me at (813)866-4544 or Mr. A. W. Morneault of my staff at (813)866-5162.

Sincerely,

R. E. Parnelle, P.E.

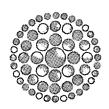
Supervisor, Air Programs

bm

cc Gary Robbins/Pinellas County

J. H. Kerns/FDER

G. Richardson/FDER



Florida Power

October 17, 1989

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

Dear Dr. Garrity:

Re: Review of Air Permit - Bayboro P1-P4, AO-52-167163 to 167166, and Bartow P1-P4, AO-52-167172 to 167175

Florida Power Corporation received the above permits for Bayboro units on September 18, 1989 and for Bartow units on September 29, 1989. We further requested an extension of the comment period for both sites to November 1, 1989 for Bayboro and November 18, 1989 for Bartow.

On October 16, 1989, a meeting was held at your Tampa office to discuss the special conditions for all eight permits cited above. In attendance were Mr. Gary Robbins, Pinellas County, Mr. J. H. Kerns, FDER, Mr. George Richardson, FDER, Mr. D. A. Shantz, FPC, and Mr. A. W. Morneault, FPC.

1. a. R.

OCT 27 1989

EDUTH MATE DE A OT

Dr. Richard D. Garrity Page 2 October 17, 1989

As a result of this meeting, listed below are our comments and recommendations:

Page 2 of 3

.

Specific Condition No. 4

Change the wording to indicate an annual testing period between December 1 and February 28.

Reason:

This change would allow testing during cooler months since the maximum load the units will run at is limited by the intake air temperature. The cooler the intake temperature, the higher load the unit will reach.

Specific Condition No. 7

Change the date of testing to match Specific Condition No. 4.

Specific Condition No. 8

Change the wording to "Fuel oil quality is to be monitored prior to delivery". Strike out the remaining first sentence. Strike out the words "composite" in the third line.

Reason:

No. 2 fuel oil delivery to these two sites does not occur very often and the units do not run daily.

Page 3 of 3

Specific Condition No. 9

Change the wording to reflect the units will be tested \pm 10% of full load. Our interpretation of "Operating Mode" will be "Operating Load".

Specific Condition No. 10

This condition only repeats conditions already stated and should be deleted.

Dr. Richard D. Garrity Page 3 October 17, 1989

Specific Condition No. 11

Presently there are no PM_{10} emission calculations available.

In part (B) there is a typo. "Provis" should be "provide".

Should further information be needed in regards to these permits, feel free to contact me at (813)866-4544 or Mr. A. W. Morneault of my staff at (813)866-5162.

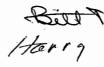
Sincerely,

a. W. Mornault

R. E. Parnelle, P.E. Supervisor, Air Programs

bm

cc Gary Robbins/Pinellas County J. H. Kerns/FDER





Florida Power

November 2, 1989

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

Dear Dr. Garrity:

Re: Reactivation - Bartow Peaking Unit #4, AO-52-89902

This is to inform you as per 17-2.210(d) that Florida Power Corporation is planning to return to service the above cited unit that has been in long-term reserve shutdown as per 17-2.210(c)(4). This unit will return to service on or about November 17, 1989.

The reasons for this return to service as per 17-2.210(2)(c)(2) is as follows:

- a. The above source was operated in compliance with all permits when shut down.
- b. System load demands must be met.

The other three peaker units at Bartow were returned to service in August 1988.

An acceptable date to Pinellas County and your department for a visible emission test will be arranged as soon as possible after the operational date of this unit.

Should you need further information, please contact me at (813)866-4544 or Mr. A. W. Morneault of my staff at (813)866-5162.

Singerely

R. E. Parnelle, P.E.

Supervisor, Air Programs

12/5.1

D. B. M.

NOV 0 6 1989

bm

cc Gary Robbins/Pinellas County

BOUTH WEST-PREIMCE TAMES

MEMORANDUM

TO: File

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

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardso

DATE: September 12, 1989

SUBJECT: Pinellas County - AP

Florida Power Corporation

Bartow Peaking Units Nos. 1,2,3 &_4

A052-167173, 7174, 7175, & 7172

These permits are for the four electrical generating peaking units located at the Bartow Plant at Weedon Island, St. Petersburg, Pinellas County.

The units are composed of an General Electric generator driven by a General Electric turbine. The turbine is fired only with new No. 2 fuel oil. There are no pollution control devices. The units are allowed a visible emission of 20% opacity. These units are required to test for visible emissions annually if they were operated more than 400 hours.

Units 1, 2 & 3 were tested for visible emissions during the month of August, 1989 and all three units were in compliance. Unit No. 4 is down for repairs and is required to test within 30 days of startup.

The PCDEM and I recommend each of the four permits be issued as conditioned.

CERTIFICATION

Application No. <u>A052-167172</u>

I HEREBY CERTIFY that the engineering features described in the above referenced application provide reasonable assurance of compliance with 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).

(Signed)

(Date)

(Seal)

PERMIT APPLICATION STATUS SHEET

COMPANY: Florida Power Carp.		
PROCESSOR: G. Richardson		7052-167172
DATE RECEIVED: 7/6/89	P.E. SEAL & CHECK: YN	•
O DAy 15, 10/2		
	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	7/14/89	MQ
LOGGING BY SEC'Y	7/20/89	
Permitting Eng'r submit finished permit package & recommendations to supervisor.	9/15/89	Cerr
Permit Package to Dist. Engr.	9/17/89	AL.
Permit Package to Dist. Mgr.	9/27/89	14
Permit Package Mailed out:	SEP 2 8 1989	MQ
DATA FOLL	OW-UP	
Issue Date Updated on PATS:	SEP 2 8 1989	<u>mo</u>
Updated on WANG:	SEP 2 8 1989	

APPLICATION TRACKING SYSTEM 07/14/89 APPL NO:167172 APPL RECVD: 07/06/89 TYPE CODE: AO SUBCODE: 00 LAST UPDATE: 07/10/89 DER OFFICE RECVD: TPA DER OEFICE TRANSFER TO: ___ APPLICATION COMPLETE: CO/OC/CO DER PROCESSOR: PHOMAS Richard Soute APPL STATUS: AC DATE: 07/06/89 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL) RELIEF: (SSAC/EXEMPTIONS/VARIANCE) (Y/N) N MANUAL TRACKING DISTRICT: 40 COUNTY:52 (Y/N) DNR REVIEW REQD? LAT/LONG: 27.51.35/82.36.09 BASIN-SEGMENT:__. (Y/N) N PUBLIC NOTICE REGD? (Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #: (Y/N) Y LETTER OF INTENT REQD? _ (I/ISSUE D/DENY) ALT#:____ PROJECT SOURCE NAME: BARTOW PEAKING UNIT #4 STREET: WEEDON ISLAND STATE:FL ZIP:____ APPLICATION NAME:FLORIDA POWER CORP. PHONE STREET: P 0 BOX 14042 CITY: ST. PETE STATE:FL ZIP:33733 PHONE: AGENT NAME: CITY: B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - / / C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - - / / -- / / E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT ---- / / --- / / E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT --- / / --- / / F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS -- / / F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS - -G DATE FIELD REPORT WAS REQ -- REC -- -- -- -- --_/_/_ H DATE DNR REVIEW WAS COMPLETED - - - - - - - - - -I DATE APPLICATION WAS COMPLETE - - - - - - - - - - - - - - - - - DO/STADE

J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS -- /_/_K DATE NOTICE OF INTENT WAS SENT-REC TO APPLICANT -- -- /_/_-L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - - - - / /_ M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED -- __/_/_ N WAIVER DATE BEGIN--END (DAY 90) - - - - - - - - - - _ /_/_

COMMENTS:



BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 34616

COMMISSIONERS

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

August 8, 1989

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

RE: Florida Power Corporation, Permit No. A052-167172; Bartow

Peaking Unit No. 4; Replaces Permit No. AO52-89902

Mr. Richardson:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCES for the above mentioned source. The application is deemed complete except for a current compliance test. Pinellas County performed an inspection on 8/3/89, which revealed that the unit is down due to machanical problems. It is not expected to start back up until the end of this year. The permit will require the source to test within 30 days of start-up. Pinellas County recommends that an operation permit be issued. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer

Air Quality Division

GR/0956E

APPLICANT: Florida Power Corporation Post Office Box 14042 St. Petersburg , Fl. 33733 PERMIT/CERTIFICATION No. AO52-167172 County:- Pinellas

Expiration date: Aug. 31, 1994

Project: Peaking Unit No. 4

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the 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:

THE FLEC MODEL MS DODO SEEN: NO: ZITTIZ GAS TENBINE

Located at Weeden Island, St. Petersburg

UTM 17-342.2 E 3082.9 N NEDS No.: 0011 Point ID: 08

Replaces Permit No.: A052-89902

DER Form 17-1.201(5) Page: 1 of 3

PERMITTEE: Florida Power Corporati Permit/Certification No: AO52-167172 Project: Prow Peaking Unit No. 4

SPECIFIC CONDITIONS:

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

- 2. Visible emissions from the Peaking Unit shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), Florida Administrative Code (F.A.C.).
- 3. The Peaking Unit shall be fired on No. 2 fuel oil.
- 4. Test the peaking unit for visible emissions within 30 days of start-up and than at intervals of 12 months from the date of 8/13/89 pursuant to Subsection 17-2.700(2), F.A.C., if the Peaking Unit operates more than 400 hours during the preceding 12 month period. Submit a copy of test data to this office and the Pinellas County Department of Environmental Management, Air Quality Division within 45 days of such testing, Subsection 17-2.700(7), F.A.C.
- 5. Compliance with the emission limitations of Specific Condition No. 2 shall be determined using EPA Method 9 contained in 40 CFR 60, Appendix A and adopted by reference in Subsection 17-2.700, F.A.C. The minimum source sampling time shall be 60 minutes.
- 6. The Pinellas County Department of Environmental Management shall be notified in writing 15 days prior to compliance testing, Subsection 17-2.700(2)9., F.A.C.
- 7. During the compliance test the Peaking Unit shall be fired on No. 2 fuel oil which has been refined from crude oil and has not been used, and which may or may not contain additives.
- 8. Maintain monthly records for the hours this Peaking Unit operates. If the Peaking Unit operates less than 400 hours as per Specific Condition No. 4, submit these records at twelve month intervals from the date of August 13, 1989 to this office and the Pinellas County Department of Environmental Regulation, Air Quality Division in lieu of the visible emissions test.
- 9. Fuel oil quality is to be monitored prior to delivery and a sample taken for each day of operation for a monthly composite analysis. The monthly fuel oil composite sample is to be analyzed for the following:
 - a. Btu content
 - b. API Gravity
 - c. Density
 - d. Sulfur Content by weight

as per Subsection 403.061(13), F.S.

DER Form 17-1.201(5) Page: 2 of 3

*PERMITTEE: Florida Power Corporation

Permit/Certification No: AO52-167172 Project: Prow Peaking Unit No. 4

SPECIFIC CONDITIONS:

10. Compliance testing of emissions shall be accomplished while operating the Peaking Unit at ±10% of the permitted capacity stated in specific condition No. 12. A compliance test submitted at operating rates less than 90% of the permitted capacities will automatically constitute an amended permit at the lesser rate. The permittee shall submit a statement of the operating mode and a copy of the fuel oil analysis as a part of the compliance test. Failure to submit an operation mode statement or operating at conditions which do not reflect the normal operating conditions may invalidate the data [Section 403.161(1)(c), Florida Statutes].

- No objectionable odors will be allowed as per Subsection 17-2.620(2), F.A.C.
- 12. Based on the compliance test conducted on August 12, 1985 this source is permitted to operate at 47 MW/hour at 93 barrels/hour of No. 2. Fuel Oil. If the source exceeds this permitted level by 10%, a compliance test must be performed within 30 days following Specific Condition Nos. 4, 5, and 6.
- 13. Submit for this facility, each calendar year, on or before March 1, and emission report for the preceding calendar year containing the following information as per Subsection 403.061(13), F.S.:
 - A. Annual amount of materials and/or fuels utilized.
 - B. Annual emissions for particulate, PM_{10} , carbon monoxide, SO_2 , and NOx based on fuel use, operating hours, and fuel analysis (provide a copy of calculation sheet(s) and basis for calculation)
 - C. Any changes in the information contained in the permit application.

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

14. Three applications to renew this operating permit shall be submitted to the Southwest District of the Department of Environmental Regulation and one copy to the Pinellas County Department of Environmental Management, Air Quality Division sixty (60) days prior to the expiration date of this permit as per Section 17-4.090, F.A.C.

Issued	this	day	of	
19				

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard D. Garrity, Ph.D. Deputy Assistant Secretary



Florida

D. E. R.

JUI = 6 1989

SOUTHWEST DISTRICT TAMPA

July 5, 1989

7-7-89

Dr. Richard D. Garrity District Manager Florida Department of **Environmental Regulation** Southwest District 4520 Oak Fair Boulevard Tampa, Florida 33610-9544

Dear Dr. Garrity:

Olvina
These are 4 sinctor
& source
Need 4 PATS Number

Subject: Renewal of Air Operating Permits Bartow Peaking Units P1-P4

A052-89904, 89903, 89902 & 89907

Attached are four copies each of applications to renew the air operating permits for the above referenced cited units.

Also attached are four checks in the amount of \$750 each for the application fees for these units.

If you have any questions concerning these applications, please contact me at (813)866-4544 or Mr. A. W. Morneault of my staff at (813)866-5162.

Sincerely.

R. E. Parnelle, P.E.

Supervisor, Air Programs

awm/bm

cc: Gary Robbins, Pinellas County

FACILITY:			DISTRICT:	COUNTY:
Florida Power Corporation			SOUTHWEST	PINELLAS
		Plant - Weedon Island	CONTACT:	
St. Pet	cersbur	g, FL 33733	Mr. Ken Roy	
APIS NO.:		PERMIT NO.:	EXPIRATION DATE:	
40TPA52001108		AO52-89902	9/11/89	
SOURCE DESCRIPTION				
Gas Turbine Pe	eaking	Unit #4		
INSPECTION DATE:		AUDIT TYPE:	COMPLIANCE STATU	
1/7/87		3 - Major	In Compliance	By Shutdown
INSPECTION COMMEN	IMC (DEC	OMMENDA MIONE .		
INSPECTION COMME	MIDAKEC	COMMENDATIONS:		
A052-89902 - Ga	as turb	oine peaking unit tota	ally shutdown with l	ockouts in
	lace.	and pounting and a con-	,	
•				
Uı	nit had	l dehumidifier inside	combustion area. f	uel tanks
We	e re emp	oty (guages).		
•			_	
		d exhaust vents were	sealed to prevent m	oisture from
CO	orrodin	ıg unit.		
ጥት	na unit	is not scheduled to	ctart un until 1980	. (As per
		etter 7/25/86).	scare up uneil 1909	· (As per
•				
Ur	nit is	in compliance by shut	down.	
INSPECTOR(S) NAME	E(S) •			
	•	IRMANN, Pinellas Count	v Air Quality Divis	ion
D.		The state of the s	-1 Kamrral mrard	
SIGNATURE(S):	-	,	D	ATE:
(in Fe			1/8/87
En	u fl	burn		

(0034I)(a))

APIS UPDATED? 5.7.

NSPECTION REPORT FORM AIR POLLUTANT EMISSION SOURCES

PACILITY Flori Barto	da Power Co. w Plant	DISTRICT Southwest	COUNTY Pinellas			
ADDRESS weeds St. Peter		CONTACT Phil Wadkins				
APIS 1 40TPASZ CONOB SOURCE DESCRIPT	PERMIT A052 - 8990Z	EXPIRATION DATE 9/11/89				
Gras Tu	rbine leaking unit # 6	<u></u>				
INSPECTION DAT	E AUDIT TYPE 3- Major	COMPLIANCE ST	TATUS			
INSPECTION COMMENTS/RECOMMENDATIONS						

A052-89902 - Gras Turbine peaking unit

was in the first stages of
being shut down until 1989.

During the inspection the

units were being readied for
installation of dehumidifiers inside
the turbines and the fuel tanks
were empty. Inlet and exhaust
units are to be sealed to prevent
moisture from entering units.

INSPECTOR(S) NAME(S)		
E. Fehrmann		~~~
SIGNATURE(S)	DATE	
E. Folken	7/11/86	

```
SOUTH ST DISTRICT PINELLAS COUTY
```

PLANT 0011 FLORIDA POWER NEEDON ISLAND UTILITY FILE STATUS NEW ADD POWER PLANT SAINT PETERSEURG FL. 53733

J A HANCOCK AQCR=052 SIC=4911
P O BOX 14042 LAT=28:20:30N LON=82:18:17W LAT=28:20:30N LON=82:18:17W BARTOW PLANT

 POINT 08 CONST PATS# OPER PATS# A052-89902 ISS= / / EXP= / / ISS=10/05/34 EXP=09/11/89 GAS TURBINE PEAKING UNIT # P-4 SOURCE= IPP=92 EXIST COMM.PNTS. .-STACK HT= 45FT DIAM=17.3FT TEMP= 930F FLOW=1043797CFM PLUME= OFT BOILER CAP= OMBTU/HR FUEL FOR SPACE HEAT= .0% OPERATING PROCESS RATES YOR= 84 RAW MATERIAL = 0 OTHER PRODUCT 0 OTHER FUEL 3102 GL/BRN NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25% PERMIT SCHEDULE 24HRS/DAY 7DAYS/WK 52WKS/YR AOR FOR 02/15/85 24HRS/DAY 7DAYS/WK 52WKS/YR DISTILLATE PEAKING UNIT COMPLIANCE NEDS=1 QRC=3 UPDATEC9/84 SCHED.07/79 UPDATED07/31/79

PERMIT=1 YCR=84 INSPECTED C3/02/84 NEXT DUE C3/13/84

′

SCC'S

2-01-001-01 YOR=84 SCURCE=C RATE= 183 MAX= 8.082 KGL/BRN FUEL CONT SO2= .13% ASH= 0.0% 141MBTU FYCR=84 CONFID=2 DISTILLATE #2 OIL BURNED IN INTERNAL COMBUSTION UNIT

PCLLUTANTS MONITORED

TSP 11101 NORM= 15.52 EST/METH= 1/1 MAX.ALW= 45 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= C.0% NEXT DUE 07/31/80 TEST/FREQ=1

VE 11204 NORM= 60C.20 EST/METH= / MAX.ALW= 60020 TNS/YR.

CTLS.PRI= SEC= EFF= . % NEXT DUE 08/13/85 TEST/FREQ=1

TESTED 08/02/84 AGENCY=3 REG=610(2)(A) COMPLIANCE=1

EMITTED= 30G.15 ALLOWED= 6GO.2GLBS/HR OP-RATE= 50 OTH/ER

C0 42101 NORM= 25.41 EST/METH= 3/1 MAX.ALW= 111 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= C.0% NEXT DUE 00/00/00 TEST/FREQ=0

S02 42401 NORM= 78.17 EST/METH= 2/1 MAX.ALW= 1719 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= C.0% NEXT DUE 07/31/80 TEST/FREQ=1

NOX 42603 NORM= 21G.32 EST/METH= 6/1 MAX.ALW= 444 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= G.0% NEXT DUE 07/31/80 TEST/FREQ=1

CH4 43201 NORM= 0.26 EST/METH= 0/1 MAX.ALW= 1 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= C.0% NEXT DUE 07/31/80 TEST/FREQ=1

CTLS.PRI= 0 SEC= 0 EFF= C.0% NEXT DUE 07/31/80 TEST/FREQ=1

~ ~	INSPECTION REPORTED INSPEC					
PACILITY PAUL L	COUNTY PINELLAS					
ADDRESS WEEDO ST. PETERSB	N ISLAND URG, FLORIDA	CONTACT MR. 3 PLANT OPERATION	ONS SUPERINTENDENT			
APIS 1 PERI 40TPA52001108	A052-89902	EXPIRATION DATE 9/11	/89			
SOURCE DESCRIPTION	TURBINE PE	AKING UNIT	NO. 4			
INSPECTION DATE 8/12/85	17//1007					
INSPECTION COMMENTS/RECOMMENDATIONS AO 52-89902 - COMBUSTION TURBINE PEAKING UNIT FIRED BY OIL NO. 2 AT APPROXIMATE RATE OF 65 GAL/MIN. OUTUT RATE WAS 47 MW. THE UNIT WAS TESTED FOR VISIBLE EMISSIONS. AVERAGE OPACITY DURING THE WORST SIX MINUTES OF OPERATION WAS 15%.						
		- TUP	ING PREVIOUS			

TOTAL OPERATING HOURS DURING PREVIOUS 12 MONTHS TO END OF JULY 1985 WERE A8.6 HOURS.

INSPECTOR(S) NAME(S)	S GOMZ	OLIS	
SIGNATURE(S) Camon	Palis	DATE 8/14/85	

ADDRESS L. BARTOW PLANT MIN NI S S S S S S S S S	SOURCE NAME FLORIDA POW	ER	CORPORATION	OBSER	YATIO	Z/8	5		I TIME うち		STOP	TIME;	
CITY PETERSBURG STATE 2IP 2 [5 15 15 15 32] PHONE GOLD THE PROBLES SURCE INNUMBER 3 15 15 15 15 32] PHONE GOLD THE PROBLES SURCE INNUMBER 3 15 15 15 15 33] PHONE GOLD THE PROBLEM OF THE PROBL	PAUL L. BAT	2 TOU	PLANT		0	15	30	45			15	30	45
ST PETERSDER FL. PHONE 66 - 5728 SOURCE ID NUMBER AD 52-89902 4 15 15 15 15 33 PROCESS EQUIPMENT OFERATING MODE FROM SOURCE IN OFERATING MODE OFERATING MODE OFERATING MODE OFERATING MODE OFERATING MODE OFERATING MODE OFFRATING OF	WEEDON	I	SLAND	1	15	15	15	15	31				
PHONE 866 - 5728 SOURCE ID NUMBER				2	15	15	15	15	32				
## 15 5 5 5 5 5 5 5 5 5	PHONE			3	15	15	15	15	33		,		
PENKER NO. 4 CONTROL GUIDMENT DESCRIBE EMISSION POINT START STOR DIRECTION FROM OBSERVER START STOR START STOR START STOR START STOR START STOR FULL TYPE CONTINUOUS STOR TO 15 15 15 15 39 START STOR START STOR FULL TYPE CONTINUOUS STOR TO 15 15 15 15 15 40 START STOR START STOR FULL TYPE CONTINUOUS STOR TO 15 15 15 15 15 40 START STOR FULL TYPE CONTINUOUS STOR TO 15 15 15 15 15 40 START STOR WATER BROOKETS PRESENT. IN WATER BROOKET PRESENT. AND YESD ATTACHED OF DEAL OF STOR TO 15 15 15 15 15 15 40 START TO 15 15 15 15 15 15 40 START STOR WATER BROOKETS PRESENT. IN WATER BROOKET PULL THE TO 15 15 15 15 15 15 15 45 NOW YESD ATTACHED OF DEAL OF STORP TO 15 15 15 15 15 15 15 45 NOW YESD ATTACHED OF DEAL OF STORP TO 15 15 15 15 15 15 15 15 15 15 15 15 15	866-5728		52-89902	4	15	15	15	15	34				
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DESCRIBE EMISSION POINT START PLETTAN FOR START START PLETTAN FOR START START PLETTAN FOR START STOP START PLETAN FOR STOP START PLETAN FOR START	CONTROL EQUIPMENT		OPERATING MODE	6	15	15	15	15	36				
HEIGHT ABOVE GROUND LEVEL HEIGHT RELATIVE TO OBSERVER 3 5 15 15 15 39		^ ^		7		15	15	15	37				
START 45 STOP START 45 STOP START 45 STOP START 45 STOP START 1 50 ST	START ZECTON GOL	TOP	- (/30/2	8	15	15	15	15	38				
DISTANCE FROM OBSERVER STAP DIRECTION FROM OBSERVER STAPT STOP STAPT STAPT STOP STAPT		HEIGHT	RELATIVE TOOBSERVER	9	15	15	15	15	39				
START SO' STOP START 30° STOP 11 5 5 5 5 41				10	15	15	15	15	40				
12 15 15 15 42 18 18 18 18 18 18 18 1				11	15	15	15	15	41				
START S. M.O. K. STOP	DESCRIBE EMISSIONS			12			 -	15	42				
EMISSION COLOR START BLOCKTOP FUGITIVE WATER DROPLETS PRESENT: WATER DROPLET PLUME: ATTACHED CLOTH DETACHED 15			-7	13	-			 -	43				
### WATER DROPLETS PRESENT: IF WATER DROPLET PLUME: 15 15 15 15 15 45			•								1		
NOW YESD				<u></u>			j <i>-</i>	1			 		
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED 16 15 15 15 15 41	_	ATTAC	HED CO DETACHED O		-		 						
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START SKY STOP BACKGROUND COLOR SKY CONDITIONS START PLUE STOP START SO'S STOP WIND SPEED START NE STOP AMBIENT TEMP START PA' STOP START NE STOP AMBIENT TEMP START PA' STOP SOurce Layout Sketch Draw North Arrow Source Layout Sketch Draw North Arrow Sun's Wind Plume and Observers Position Stack Tado' Sun Location Line 19 15 15 15 15 15 50 20 15 15 15 15 15 50 21 15 15 15 15 15 50 22 15 15 15 15 15 51 Sun's Wind Plume and Observers Position Stack Tado' Sun Location Line OBSERVER'S SIGNATURE OBSERVER'S SIGNA	START	SIUP	S04661	17	15	15	15	15	47	ļ			
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AMBIENT TEMP. START 9A° STOP WET BULB TEMP RH, percent 23	WIND SPEED			21	15	/5	15	15	51				
START 94° STOP 23 5 5 5 53					15	15	15	15	52				
Source Layout Sketch Draw North Arrow 24 [5 [5 [5 15 54]] 25 [5 15 15 15 55] 26 [5 15 15 15 56] 27 [5 15 15 15 56] 28 15 15 15 15 15 57 28 15 15 15 15 15 59 30 15 15 15 15 15 15 59 30 15 15 15 15 15 15 60 AVERAGE OFACITY FOR HIGHEST PERIOD SUMBER OF READINGS ABOVE DESCRIPTION DESCRIPTION SUMBER OF READINGS ABOVE DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTI		WEIBU	KH,percent		15	15	15	15	53	i			
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26 5 5 5 5 5 5 5 5 5	Source Layout Sketch	Drav	North Arrow	25	-				55			ļ	
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Sun Wind Deservers Position Stack 140° Sun Location Line Deservers Position Sun Location Line 28 15 15 15 15 15 59 29 15 15 15 15 59 30 15 15 15 15 59 AVERAGE OPACITY FOR HIGHEST PERIOD Solvers Position RANGE OF OPACITY READINGS MINIMUM 15% OBSERVER'S NAME (PRINT) COMMENTS Load A 7 MW OBSERVER'S SIGNATURE ORGANIZATION ORGANIZATION					1 -	17		ļ					
Sun Wind Deservers Position Stack 140° Sun Location Line Deservers Position AVERAGE OPACITY FOR SO NUMBER OF READINGS ABOVE HIGHEST PERIOD (5% NUMBER OF READINGS ABOVE DESERVER'S NAME (PRINT) RAMON OBSERVER'S SIGNATURE OBSERVER'S SIGNATURE ORGANIZATION DATE ORGANIZATION	X I	Emission	Point		(>	15		· · · · · · · · · · · · · · · · · · ·	ļ		ļ		
Sun wind Deservers Position Stack 140° Sun Location Line 30 15 15 15 15 60 AVERAGE OPACITY FOR NUMBER OF READINGS ABOVE HIGHEST PERIOD (5% NUMBER OF READINGS ABOVE AND NUMBER OF READINGS AND NU					1-1-			-t	 				
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Stack Stack 140° Sun Location Line AVERAGE OF ACTIVITY OF THE ADMOSTANCE OF ACTIVITY READINGS MINIMUM (5°/6 MAXIMUM 15%) OBSERVER'S NAME (PRINT) RAMON SOLIS COMMENTS LOAD A7 MW OBSERVER'S SIGNATURE ORGANIZATION ORGANIZATION		Observer	s Position		1/>	1/5	15	/>		150.00	000	INCS	AROVE
COMMENTS LOAD AT MW RANGE OF OPACITY READINGS MINIMUM (5°/6 MAXIMUM 15% OBSERVER'S NAME (PRINT) RAMON SOLIS OBSERVER'S SIGNATURE ORGANIZATION ORGANIZATION	Stack	· ·	5 7 17 311 (17)				FOR	15%					HBUVE
COMMENTS LOAD AT MW OBSERVER'S NAME (PRINT) RAMON SOLIS COMMENTS LOAD AT MW OBSERVER'S SIGNATURE ORGANIZATION ORGANIZATION				RANG	E OF C			DINGS	<0/	444)	(1841184	15	5%
COMMENTS LOAD 47 MW OBSERVER'S SIGNATURE DATE /12/85 ORGANIZATION	3377 23237	on time		OBSE	RVER'S	NAM	E (PRII	V <i>T)</i>					0
ORGANIZATION	COMMENTS LOAD	471	Mw	OBS	RVER'S	***************************************			1.		······	->	loe.
				ORGA	NIZAT	ION	a /	del	es			12/	دسین
	LUANE BEGENERAL STATES		140/14 0000011110110	PIA	JELL	24	4	الم ال	T	7		AIR	STY
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS CERTIFIED BY SIGNATURE DATE 3/13/85		HESE OF	PACITY OBSERVATIONS	CERTI	FIED B		5/	DE	R	DAI	3/	13/	28
TITLE DATE VERIFIED BY DATE	TITLE		DATE	VERIF	IED BY	,	-	-		DAT	ε '		



ANNUAL OPERATIONS REPORT FORM FOR AIR EMISSIONS SOURCES

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

Ι.	GENERAL INFORMATION:		
	1. Source Name: Florida Power Corp. (E 2. Permit Number: A052-89902 3. Source Address: Weedon Island, St. Pet	0	
	3. Source Address: Weedon Island, St. Pet	tersburg, FL 33702	
	4. Description of Source: Gas Turbine	-	
II.	OPERATING SCHEDULE: 24 hrs/day Operated 58.9 hours in RAW MATERIAL INPUT PROCESS WEIGHT:	7 day/wk 1 1984	52 wks/yr
	Raw Material N/A	Input Process Weight	tons/yr tons/yr tons/yr tons/yr tons/yr
	Product Output (tons/yr - cubic feet/yr)		Section Section Marcon
IV.	TOTAL FUEL USAGE, including standby fuels. content (e.g., No. 6 oil with 1%S).	If fuel is oil, specify weigh	t and sulfur
	10 ⁶ Cu. Ft. Natural Gas 10 ³ gallons Propane tons Coal tons Carbonaceous Other (Specify type and units)	182.70 10 ³ gallons No 10 ³ gallons Ke 10 ⁶ lb Black L tons Refuse	. 2 Oil, 0.18 %S rosene iquor Solids
٧.	EMISSION LEVEL (tons/yr): A. 0.457 Particulates 6.194 Nitrogen Oxide Hydrocarbon 2.302 Sulfur Dioxide Other (Specify type and units)	Carbon Monoxid Total Reduced Fluoride	
	B. Method of calculating emission rates (emission factors drawn from AP 42, etc.	e.g., use of fuel analysis and .): Emission factors from AP-	materials balance, 42.
VI.	CERTIFICATION:		
	I hereby certify that the information given knowledge.	in this record is correct to Signature of Owner or Author	
		J. A. Hancock Vice President, Fossil Opera	tions
	rm PERM 12-15 (Jan78) Rpt)D48	February 15, 1985	





BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

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

September 10, 1984

SEP 1 9 1334

SUUTE VEST DISTRICT Inn PA

Mr. Richard Garrity, Ph.D. S.W. District Manager Department of Environmental Regulation 7601 Highway 301 North Tampa, Florida

Dear Mr. Garrity:

The Pinellas County Division of Air Quality, Engineering/Compliance Sections activities for the month of August 1984 are summarized as follows:

Citizen Complaints

Twenty-five (25) complaints were received in August:

12 - Odor Case File on City of Largo, A052-30168

5 - Odor Closed/Resolved

- Dust (Unpaved Street) Pending further Investigation

- Dust (Unconfined emissions) Closed/Referred

1 Dust (Unconfined emissions) Pending

- Auto Spray Painting Closed/Resolved Fiberglassing Vapors Closed/Referred

Compliance Verification Inspections

- The following sources inspected in August are considered to be in full compliance:
 - Carrolls Bldg. Mat'ls., Inc. Permits A052-77817, -80974
 - The West Company Permit A052-56965. Stack test observed.
 - Florida Power Corp. Bartow Plant Permits A052-22551, -22553, -22554, -22555 (Peaking Units); A052-56650 (Generator #2) 3rd QTR, and the annual soot blowing stack tests observed.
 - 4. Florida Power Corp. Higgins Plant Permit A052-56654 2nd half and the annual soot blowing stack tests observed.

- 5. Florida Power Corp. Bayboro Plant Permits A052-22556, -22557 (Peaking Units).
- B. The following source is considered to be in non-compliance:
 - 1. SPCA of Clearwater Permit A052-40321. Continuous emissions from the incinerator. The facility operator contacted the service company immediately.

General

- 1. Pet Dairy, Inc. Permits A052-61060, -61104, and -61102. V.E. tests waived due to the boiler sources not burning oil during the past year.
- 2. Prepared and submitted amendments to the CDS list to R. Vail, BAQM. (Copies sent to DER, S.W. District previously).
- 3. Coordinated with J. Estler, Air Permit Engineer, on cases involving DCCO's for ITD Industries and Zero Corp.
- 4. On 8/29/84 P.C. Division of Air Quality staff attended the meeting at Department of Environmental Regulations office regarding the Largo Sludge Dryer operation and continuing complaints against the source. City of Largo staff agreed to limit operations until the contracted odor control system is installed (expected late December 1984).

If there are any questions or if further information is needed regarding the contents of this report please contact this office at Suncom 570-6522.

Sincerely,

Joyce M. Gibbs, Chief Division of Air Quality

JM/PH/wn

Enclosures

T0:

W. C. Thomas, P.E.

THROUGH:

Jim Estler

FROM:

Jim McDonald >>~

DATE:

September 26, 1984

SUBJECT:

Recommend Renewal of Florida Power Corporation's (Bartow) 4 Peaking Units A052-89907, 89904, 89903

and 89902

On July 12, 1984, this office received Florida Power Corporation's applications to renew their operating air pollution permits for (4) four peaking units at their Bartow facility. Each unit has a design rating of 56.7 MW and and burns No. 2 fuel oil (distillate) at a maximum rate of 132 barrels/hr.

Units 2 & 3 and 1 & 4 were tested for visible emission on August 1 and 2, 1984, respectively, and witnessed by the Pinellas County Department of Environmental Management. Each unit passet the test successfully and appeared to be operating satisfactorily.

On September 18, 1984, Mr. Peter Hessling and I reviewed the applications and agreed upon recommending the permits be issued as conditioned.

JLM/scm

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٠.,

COMPANY NAME FLORIDA POWER CORPORATION

Processor

File Number <u>A052 - 8990</u> 2

PERMIT APPLICATION STATUS SHEET

	Type of permit applied for <u>OPERATION</u> County PINGLCAS						
	Date Received 7-12-8	P.E. seal & si Check No check Letter of corp					
CLOCK DAYS		DATE TASK COMPLETED	INITIALS				
3	Logging by Sec'Y	<u>7-17-84</u> 7-18-84	Gure				
5	Review by Sec. head and transfer to permitting Engineer	7-18-84	<i>₽₩</i>				
28	Completeness Review	10-3-84	Jru_				
	request additional info *		<i>y</i>				
	information received *		<u></u>				
	Public Notice Published * (for Air Construction only	· · · · · · · · · · · · · · · · · · ·					
55	Letter of Intent sent to * Supervisor						
60	Letter of Intent submitted * to District Manager						
75 -	Intent to issue/deny mailed*	k					
80	Permitting Eng'r submit finished permit package & recommendations to superviso	or 10-3-84	<u>m</u>				
83	Permit Package to Dist. Engi	r	que				
85	Permit Package to Dist. Manager	·					
90	Final Issuance/denial						
	*If needed, If not indicate	by N/A					

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 83378

RECEIP,T FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Flasida Paires Conp. Date 7-12-84
Address P. O. But 14042, St. Pato Dollars \$ 100,00
Applicant Name & Address
Source of Revenue Barton Portain Colorit #4
· · · · · · · · · · · · · · · · · · ·
572135 By Worthes Pulham

DER AIR PERMIT INVENTORY SYSTEM 40/52/0011/08
SOUTHWEST DISTRICT PINELLAS COUNTY PAGE 1

10/34/79

18

PLANT 0044 FLORIDA POWER CORPORATION WEEDON ISLAND SAINT PETERSBURG W P STEWART

P 0 B0X 14042 ST PETERSBURG

UTILITY FILE STATUS SENT POWER PLANT

FL. 33733 AQCR=052 SIC=4914

LAT=28:20:30N LON=82:48:47W

OPER PATS# A052-22555

ISS=10/23/79 EXP=09/11/84

. 33733 UTM ZONE 17 342,4KM E. 3082,8KM N.

BARTOM

POINT 08 CONST PATS#

ISS= / / EXP= / / GAS TURBINE PEAKING UNIT # P-4

SOURCE= IPP=92 EXIST

ECAP COMM.PNTS.

STACK HT= 45FT DIAM=38.8FT TEMP= 930F FLOW=1043797CFM PLUME= FT

BOILER CAP= 708MBTU/HR FUEL FOR SPACE HEAT= .0%

OPERATING PROCESS RATES YOR=79 RAW MATERIAL= 0 OTHER

PRODUCT 0 DTHER FUEL 36306 LB/BRN

NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25%

PERMIT SCHEDULE @SHRS/DAY 7DAYS/WK 52WKS/YR AOR FOR 07/34/79 05HRS/DAY 7DAYS/WK 52WKS/YR

DISTILLATE PEAKING UNIT

COMPLIANCE NEDS=1 QRC=2 UPDATE07/79 SCHED.07/79 UPDATED07/31/79

PERMIT=1 YOR=79 INSPECTED 02/01/79 NEXT DUE 02/01/80

SCC'S

1-01-005-01 YOR=79 SOURCE=C RATE= 36306 MAX= 5.071 LB/BRN FUEL CONT SO2= .18% ASH= 0.0% 263MBTU FYOR=79 CONFID=2

POLLUTANTS MONITORED

0.00 EST/METH= 9/1 MAX.ALW=9999999 TNS/YR. TSP 44404 NORM= CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 07/31/80 TEST/FREQ=1

SO2 42401 NORM= 0.00 EST/METH= 44/1 MAX.ALW=9999999 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 07/31/80 TEST/FREQ=1

NOX 42603 NORM= 0.00 EST/METH= 152/1 MAX.ALW=9999999 TNS/YR.

CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 07/31/80 TEST/FRE0=1



RECORD OF VISUAL DETERMINATION OF OPACITY

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Boutage P-4	Hours of Observation	
Permit Number - 22555	OBSERVET L. BROWETE	. 1
Date August D. 1984	Observer Certification Date	,
Type Facility Combustion Turbine Peakinglimit	Point of Emissions	
Control Device NON F	Height of Discharge Point	

	initial		Final
CLOCK TIME	MID		1439
OBSERVER LOCATION Distance to Discharge	×400°		759mE
Direction from Discharge	SW		1
Height of Observation Point	Grand		
BACKGROUND DESCRIPTION	sky-sut gouds		/
WEATHER CONDITIONS Wind Direction	ESE-89	¥	
Wind Speed	5-10 mp		
Ambient Temperature	~92°F		[] ·
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PLUME DESCRIPTION Color		7	
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Other Information			

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NOTES:

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

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STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH TAMPA, FLORIDA 33610-9544



BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

June 16, 1983

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

Re: Pinellas County - AP

Florida Power Corporation - Bartow Peaking Unit 4

A052-22555

Dear Mr. Shantz:

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

1. This unit shall be tested for visible emissions at intervals of 12 months from the date of August 13, 1979 if the unit operates more than 5 days (120 hours) on fuel oil the preceding 12 months. A copy of the test results should be submitted to the Department's Southwest District Office and the Pinellas County Department of Environmental Management within 45 days of testing.

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

Sincerely,

Dan A. Williams, P.E.

District Engineer

Air, IW & HW Programs

JE/scm

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cc: PCDEM



April 6, 1983

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

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

Dear Mr. Williams:

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

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

Sincerely,

D. A. Shantz, Supervisor Environmental Services

Shantz(W03)C4a-2

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

Readers

copy to pedent 83

APR 13 1983

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BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA
315 COURT STREET
CLEARWATER, FLORIDA 33516

COMMISSIONERS

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

November 12, 1982

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

Dear Mr. Hennessey:

The Division of Air Quality, Enforcement/Engineering Section's activities for the month of October 1982 are summarized as follows:

Citizen Complaints

Twelve complaints were received in October.

8 - 0dor

1 - Diesel fumes

2 - Smoke

Suspected vegetation damage from air pollutants

Six of the odor complaints were logged against the Largo Sludge Dryer Plant (A052-30168).

Facility Inspections

- A. The following facilities inspected in October are considered to be in full compliance. (Reports attached).
 - 1. Industrial Concrete Industries Permits A052-24170, 24171, 24174.
 - 2. International Association of Mortuary Services A052-40701.
 - 3. National Cremation Society A052-29986.
 - Acre Iron & Metal A052-26499.
 - 5. Pinellas Industries A052-16021, 16022, 16023, 16024, 16025.

William K. Hennessey November 12, 1982 Page -2-

- B. The following facilities inspected in October are considered in non-compliance or otherwise noted.
 - 1. Baynard-Thompson Funeral Home A052-17968. Failure to submit annual V.E. test report.
 - 2. Palms of Pasadena Hospital A052-59239. Complaints received indicated functional non-compliance. Problem was corrected. Remains in administrative non-compliance due to lack of permits to operate industrial boilers.
 - 3. Florida Power Corporation Bartow Plant.
 Peaking Units A052-22551, 22553, 22554, 22555.
 Listed as non-compliance in last month's report for not submitting VE tests when due. Testing was completed and the peaking units are now considered in compliance.

Bartow Plant - Unit #3 - A052-56651. This unit was tested to satisfy third quarter requirements. Test results not filed as yet.

Bartow Plant - Unit #2 - A052-56650. This unit was tested under full audit conditions by plant personnel and observed by DER staff. The unit failed the test by exceeding the emissions limiting standard for particulates. This unit is considered to be in non-compliance.

4. Florida Power Corporation - Bayboro Plant - Peaking Units. Permits A052-22556, 22557, 22558, 22559. Previously reported as unknown compliance status in September. V.E. tests were conducted and Units 3 and 4 are considered in compliance. Units 1 and 2 are still not tested.

General

- 1. Observed Method 25 testing at R.P. Scherer Corporation. Test was conducted to determine carbon absorber efficiency prior to submittal of application for operating permit. Results not yet received.
- Attempted to perform inspections at Micro-Plate, Inc., a potential VOC source. They have denied entry without a search warrant.

William K. Hennessey November 12, 1982 Page -3-

Micro-Plate, Inc.

Copies of correspondence seeking compliance have been previously sent to the District DER office. The County Attorney's office has been notified, and will coordinate any action for warrants with the DER Office of General Counsel.

3. Mailed advance notices of tests due to four facilities. Copies attached.

Sincerely,

Enclosures

Joyce M. Gibbs, Chief Division of Air Quality

PAH/jh

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION BARTOW COMBUSTION TURBINE PLANT PINELLAS COUNTY

NEDS NUMBERS: 052-0011-05, 06, 07 and 08 PERMIT NUMBERS: A052-22551, 22553, 22554 and 22555.

DATES OF INSPECTION: OCTOBER 12 and 13, 1982

The Paul L. Bartow Combustion Turbine Plant is located in Weedon Island, St. Petersburg, Florida.

Plant contact persons were Mr. Robert Browning, Control Technician, and Mr. Stephen J. Thole, Plant Superintendent. Mr. Todd Brouette and Mr. Kenneth E. Roy from the Florida Power Corporation Testing Team performed the visible emissions compliance tests for the four combustion turbine units. Ramon Solis of Pinellas County Division of Air Quality D.E.M., performed the inspection and tested the four units for visible emissions.

The peaker units had last been inspected on September 2, 1982, but at that time they were not operating and therefore no visible emissions tests were performed.

During the inspections of October 12 and 13, 1982, the visible emissions test produced the following results: Average opacities during the worst six minutes of operation were 10% for units one, two and four, and 15% for unit three.

Even though the maximum output (production rate) is approximately 55.7 MW, the nominal output has been set at 50 MW. At the time of inspection, the units had a production rate of between 47 MW and 50 MW. The peaker units are fired by fuel oil No. 2 with approximate sulfur content of 0.18%. Fuel was being used at a rate of 75 gal/min for an output of 50 MW.

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

RS/jh

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BOARD OF COUNTY COMMISSION

COMMISSIONERS

PINELLAS COUNTY, FLORIDAS

315 COURT STREET

CLEARWATER, FLORIDA 33516

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COMMISSIONERS

CHARLES E. RAINEY, CHAIRMAN BARBARA SHEEN TODD, VICE-CHAIRMAN GABRIEL CAZARES JOHN CHESNUT, JR. BRUCE TYNDALL October 13, 1982

Mr. William K. Hennessey, District Manager Department of Environmental Regulation S.W. District Office 7601 Highway 301 North Tampa, Florida 33610 D.E. P.

OCT 14 1982

SOUTHWEST DISTRICT

TAMPA

Dear Mr. Hennessey:

The Division of Air Quality, Enforcement/Engineering Section's activities for the month of September 1982 are summarized as follows:

<u>Citizen Complaints</u>

Seven complaints were received in September.

2 - Dusty Streets

2 - Odor

2 - Paint Overspray

1 - VOC odors from fiberglassing

A complaint of paint overspray against the Lifeguard Corporation resulted in issuing a Warning Notice to the firm at fault. A copy of the letter is enclosed.

Facility Inspections

- A. The following facilities inspected in September are considered to be in full compliance. (Reports attached).
 - 1. Jethro Corporation A052-47838.
 - 2. Carrolls Building Materials, Inc. A052-44899 and AC52-44898.
 - 3. West Coast Crematory A052-17070 and 17071.
 - 4. Florida Power Corporation Higgins Plant Third quarter Stack Test Observation conducted on Unit #2, Permit A052-6207.
 V.E. tests done on the Peaking Units; Permits A052-58633, 58634, 58635, 58636.

William K. Hennessey October 13, 1982 Page -2-

- 5. Honeywell, Inc. Permits A052-55771 and A052-55772, Beryllium sources. Stack tests observed. Inspection and observation reports submitted previously.
- B. The following facilities inspected in September are in non-compliance or otherwise noted.
 - Florida Power Corporation Bartow Plant Peaker Units A052-22551, 22553, 22554, 22555. Non-Compliance Status. Test due date was 8/13/82. The facility also has failed to conduct the third quarter stack tests on the steam generating Units #2 and #3. No late notice or correspondence was issued to the District Manager's office.
 - 2. U.S.F., St. Pete Campus, Physical Plant Industrial boilers fired by natural gas only are exempted from permitting requirements.

General

- 1. Conducted pre-submittal review of permits for Modern Graphic Arts to operate lithographic printing presses and a catalytic incinerator as a pollution control device.
- 2. Conducted permit condition negotiating sessions with The West Company and forwarded permit forms package to DER for permits to operate a VOC coating line.
- Conducted technical contacts with R.P. Scherer Corporation, a pharmaceutical manufacturer, regarding permitting and compliance test methodology.
- 4. Completed and forwarded to the District office the permit packages for Aircraft Porous Media. The firm uses VOC's for solvent metal cleaning.
- 5. Attended the APCA meetings and the VOC workshop held at the District Offices.
- 6. Mailed ten advance notices of due dates for compliance test reports.

Sincerely.

Joyce M. Gibbs, Chief Division of Air Quality

PAH/jh Enclosures

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION BARTOW PLANT - PEAKER UNITS

PINELLAS COUNTY

NEDS NUMBERS: 052-0011-05, 06, 07 and 08

PERMIT NUMBERS: A052-22551, 22553, 22554 and 22555

DATE OF INSPECTION: SEPTEMBER 2, 1982

The Paul L. Bartow Combustion Turbine Plant is located in Weedon Island, St. Petersburg, Florida.

Plant contact person was Mr. Stepehn J. Thole, Plant Superintendent. Ramon Solis of Pinellas County Division of Air Quality D.E.M., performed the inspection.

The peaker units operate as reserve power generators when power demand is high or when the steam boilers or the nuclear power plant are down.

Nominal output for each one of the peaker units is 50 MW. At that rate, the units use approximately 70 gal/min of fuel oil No. 2, or 30,072 lbs/hr. Maximum output is rated at 55.7 MW as a ratio of gross generation to the number of hours the unit operates. However, that output can be affected by the ambient temperature. The oil No. 2 used as fuel has an approximate density of 7.16 lbs/gal. Percent sulfur content is 0.18%. Heat input is 139,692 BTU/gal.

The use of the peaker units has been declining steadily since the year 1979, as can be observed in the following table.

HOLLES	ΩF	OPERATION	ΔND	FHFI	HSAGE	RARTOW	PEAKERS

•	Uni	t No. 1	Unit	No. 2	Uni	t No. 3	Unit	No. 4
Year	Hours	Fuel*	Hours	Fuel*	Hours	Fue1*	Hours	Fue1*
1977	494	2015	466	1881	481	2062	840	3436
1979	1049	4464	899	3791	1019	4314	868	3648
1980	956	4064	912	3792	1204	5045	362	1539
1981	365	14 7 0	478	1942	46 7	1883	3 04	1174

^{*} Fuel Units in Thousands of Gal.

The same decline can be observed by comparing the hours of operation during August 1979, versus August 1982:

HOURS OF OPERATION FOR THE MONTH OF AUGUST, BARTOW PEAKERS

Year	Unit No. 1	Unit No. 2	Unit No. 3	Unit No. 4
19 79 1982	163.0	125.0	136.0	142.0 0.0

Compliance Verification Inspection Bartow Plant - Peaker Units Date of Inspection: September 2, 1982 Page -2-

None of the peaker units were operating at the time of the inspection; therefore it was not possible to perform visible emissions tests. The Plant Manager was directed to contact PCDAQ whenever there is an opportunity to test the units.

Pending the above mentioned testing, the Bartow Peaker Units Plant is considered to be in an unknown status in regard to compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/jh



BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

COMMISSIONERS

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

March 16, 1981

Mr. William Hennessey, District Manager Southwest District Office Florida Department of Environmental Regulation 7601 Highway 301 North Tampa, Florida 33610 MAR 18 1986.

SOUTHWEST DISTRICE
TAMPA

Dear Mr. Hennessey:

The Enforcement Section's activities, for the month of February, 1981, are summarized as follows:

Citizen Complaints

Thirty-six citizen complaints were received in February. Thirteen were attributed to deposition of pine pollen. Eight complaints were about odors (most due to natural sources in upper Tampa Bay/Safety Harbor). Three were prompted by smoke from chimneys. Three complaints were lodged against industrial sources releasing fugitive particulates. Four complaints concerned odors/fumes of a chemical nature from small and large commercial sources. Two complaints were against auto/body repair shops for paint over-spray. Two complaints were water quality related and forwarded to our main office. One complaint regarding a dusty street was received.

Compliance Inspections

- A. The following two facilities were in a non-compliance status from previous inspections in January, and have since submitted the required tests or permit renewal and are considered to be in compliance.
 - 1. S.P.C.A. of Clearwater Permit A052-509, expired as of January 26, 1981. A current V.E. test and an application for permit renewal have been filed with DER-Tampa and with this office as of February 27, 1981.
 - 2. General Materials Permits A052-3154, -3155, -3156. All points lacked current V.E. tests. Acceptable test reports were received on February 19, 1981, and this source is considered to be in compliance.
 - B. The following facility continued in a non-compliance status through February.
 - 1. S.P.C.A. of St. Petersburg Permit A052-28253. Second warning notice sent February 10, 1981 giving 30-days extension for corrective action.

Mr. William Hennessey March 16, 1981

On February 20, 1981, the incinerator was tested again and failed due to excessive opacity and continuous emissions. The operator was given a verbal warning/advisement to cease operation until adequate repairs are made and unit re-tested by agency personnel. On February 23, 1981, met with shelter manager and an S.P.C.A. board member, and outlined course of action and repairs necessary to come into compliance. On February 25, 1981, third warning letter sent giving ten days for reply and/or corrective actions and warned permittee to cease operation. The unit was repaired and passed agency V.E. test and inspection on March 10, 1981. The permittee is planning to convert to a gas fired unit and have further extensive modifications/repairs made to the unit. They were advised to obtain a permit, to modify/construct for the source, from DER-Tampa. Copies of letters have been previously forwarded.

- C. Two facilities were given Compliance Verification Inspections in February. Both are considered to be in compliance. Copies of these reports are attached.
 - 1. Mease Hospital Permit A052-16577. This source was initially inspected on February 4, 1981, and did not pass the V.E. test due to an exceedance of the three minute continuous opacity limit. The source was re-tested on February 12, 1981, and was operating in compliance.
 - 2. Florida Power Corporation Bartow Plant Permits A052-15188, -6206, -23168, -6280, -22551, -22553, -22554, -22555. This facility was inspected during stack testing on February 26, 1981. The plant was operating in compliance and a copy of the Field Observation checklist and V.E. test are attached.

D. General

- 1. Off-site surveillance was conducted on February 12, 1981 at the following locations in Tarpon Springs: Stauffer Chemical Company, Pinellas Concrete Products, Concrete Services. Also observed was Concrete Services in Clearwater. No excessive point source or fugitive emissions were observed at any location.
- 2. In response to several complaints on fugitive emissions, two facilities were visited on February 23, 1981. The weather conditions were quite dry and windy.
 - a. W. L. Cobb Construction Company on Starkey Road, Largo was observed to be exhausting a particulate trail from its stack above what is considered normal for this source. Also, fugitives from stockpiles and truck traffic were apparent. The plant manager, Phil McCord, was contacted and during a walk-through of the facility, the need for increased fugitive controls via watering/sprinklers was expressed out to him. Mr. McCord stated that repairs to the scrubber

Mr. William Hennessey March 16, 1981

system pumps and baffle plates were scheduled for the plant. He explained that these repairs would decrease the particulate trail from the stack exhaust.

- b. General Materials Company Largo Plant located at 20th Avenue, S.E., Largo was visited when excessive emissions were noted from the baghouse on the flyash silo as it was being loaded. Mr. John McMath, the plant manager, was contacted and he showed verification that a new baghouse was being ordered with expected delivery in early March. He stated that the baghouse was blown while being loaded approximately two weeks earlier. He was also advised to make use of increased yard maintenance and watering to control fugitive emissions.
- 3. Two facilities were given (30) day warning letters to submit V.E. test results which were over due. Both have submitted acceptable tests and are considered in full compliance. Copies of letters are attached.
 - a. Gulf Machinery Permit A052-6978.
 - b. Clearwater Concrete Industries Permit A052-15819.
- 4. Scotty's Clearwater Truss Plant located at N. Keene Road, Clearwater was inspected at the request of the plant manager, Mr. Robert Cantarella, on February 4, 1981. The manager wanted recommendations on solutions to the plant's fugitive dust problem. A copy of the report is attached.

Technical

ITD Industries was visited on February 16, 1981 to ascertain progress in development of an application for a permit to construct/modify a V.O.C. source. Mr. Bruce Schrier, Technical Services Director and J.O'Brian, President, were contacted. Problems in fitting the data/information to the application form were discussed as well as noting the problem of achieving the emissions limit of not greater than 2.9 lbs/gal of VOC's. The firm manufactures high optical quality solar window films of a reflective and non-reflective type. Their testing of new formulas lasts for more than (1) year before they can begin to mass produce a given film type. Thus, new formulas or production modifications which may yield an acceptable emissions level could end up being scrapped if the new product shows inferior quality or durability during the year or so of testing/quality assurance. Also noted was the problem of maintaining market competitiveness with a continued product quality and cost while readjusting formula and production methods. The plant principals stated that if the emissions limit appeared to be unreachable after significant attempts at compliance, then they would have to consider seeking a variance from the rule. They requested information on this option as well as assistance in obtaining technical solutions to achieve compliance.

Mr. William Hennessey March 16, 1981

Page -4-

Personnel Actions

- Peter Hessling, Environmental Specialist I, promoted to Environmental Engineer position and put in charge of all Enforcement Section responsibilities, effective date March 9, 1981.
- Mr. Hessling attended the EPA/PEDCO workshop on technical aspects of plant inspection held in Tampa, February 17-19, 1981.
- Hired Ramon Solis for the position of Environmental Specialist II, Enforcement Section to be effective March 16, 1981.

Conclusion

The re-organization and lack of personnel in the Enforcement Section coupled with a backlog of complaints is the cause of the decreased number of facility inspections. This is expected to continue, for one month only, as the new personnel are orientated and trained to their respective positions. A revised schedule of plant inspections will be submitted with the next monthly report.

Sincerely,

Joyce M. Gibbs, Chief

Division of Air and Water Quality

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JMG/jh Enclosures

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION (Bartow Plant)

PINELLAS COUNTY

NEDS NO: 0011-01 through 0011-08

PERMIT NO: A052-6206

DATE OF INSPECTION: January 24, 1980

Florida Power Corporation Bartow Plant is located on Weedon Island in St. Petersburg, Florida. This plant was inspected on January 24, 1980 by Robert Barker of D.E.R. Plant contact was Todd Broulette, Environmental Engineer.

Bartow Plant consists of three (3) steam generating units and four (4) gas turbine-driven electric generating units:

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Bartow Unit #1 (93.4 MW) ) These three units fuel burned
Bartow Unit #2 (120.0 MW) ) in boiler to produce steam to
Bartow Unit #3 (235 MW) ) turn turbine to produce electricity.
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The above three units are fueled with #6 fuel oil (2.5% S oil or less.)

PEAKING UNITS

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Bartow P-1 (41.6 MW) gas turbine fueled with #2 oil.

Bartow P-2 (40.7 MW) " " "

Bartow P-3 (42.5 MW) " " "

Bartow P-4 (41.7 MW) " " "
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Bartow Plant Units #1, #2, #3 (small boilers - less than 250 MW are not currently subject to a numerical emission limiting standard. Instead Section 17-2.05(6) Table II, E.(2) Florida Administrative Code requires that such plants "apply BACT per 17-2.03" to control emissions of particulates and sulfur dioxide. (See: Permitting requirements for oil burning boilers when Sulfur content of fuel is changed date November 29, 1979). Present emission standards are: Particulates 0.1#/hr.x 10⁶ BTU's heat input - (SO₂) 2.75#/hr.x 10⁶ BTU's heat input - 40% opacity if units are tested quaterly for particulates.

Stack test results:

Bartow #1 (Tests on 2/1/80 and 2/4/80) Particulate $0.088\#/hr.x10^6$ BTU State Method Particulate $0.070\#/hr.x10^6$ BTU "F" Factor Method SO₂ 2.29 $\#/hr.x10^6$ BTU (fuel analysis) 2.5% S oil Opacity 15.8%

Bartow #2 (Tests on 1/24/80, 1/25/80, 1/30/80 Particulate 0.057#/hr.xl0 6 BTU State Method Particulate 0.051#/hr.xl0 6 BTU "F" Factor Method SO₂ 2.29#/hr.xl0 6 BTU (fuel analysis) 2.5% S oil Opacity 13.3%

COMPLIANCE VERIFICATION INSPECTION

Page Two

Bartow #3 (Tests on 1/28/80 and 1/29/80)
Particulate 0.085#/hr.x 10^6 BTU State Method Particulate 0.079#/hr.x 10^6 BTU "F" Factor Method SO₂ 2.29#/hr.x 10^6 BTU (fuel analysis) 2.5% S oil Opacity 20.8%

Visible emission tests are required annually for Bartow P-1, P-2, P-3, P-4 peaking units (20% opacity or less)

BARTOW PEAKING UNITS

Bartow :	P - 1	Visible	Emission	Test	8/13/79	(In	Compliance)
Bartow :	P-2		11		8/13/79	(In	Compliance)
Bartow	P - 3	. 11	11		8/13/79	(In	Compliance)
Bartow :	P - 4	**	11		8/13/79	(In	Compliance)

PERMITS:

and a significant

Bartow	#1	(93.4 MW)	A052-6206	Expires	2/28/83	(#6	oil)
Bartow	#2	(120 MW)	A052-23168	Expires	10/23/84	(#6	oil)
Bartow	#3	(235 MW)	A052-6280	Expires	6/22/83	(#6	oil)
Bartow	P-1)	A052-22551	Expires	9/11/84		
Bartow	P-2)Peaking	A052-22553	Expires	9/11/84		
Bartow	P-3)Units	A052-22554	Expires	9/11/84		
Bartow	P-4)	A052-22555	Expires	9/11/84		

Florida Power Bartow Plant (all units) are in compliance with Chapter 17-2 and 17-4 F.A.C.

RB/clc

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD FILE#000000022555 COE# DER PROCESSOR: BROWN DER OFFICE: TPA FILE NAME: GEORGE C. MOORE DATE FIRST REC: 08/06/79 APPLICATION TYPE:AO APPL NAME: FLORIDA POWER CORP. APPL PHONE: (813)866-4140 PROJECT COUNTY:52 ADDR:P.O. BOX 44042 CITY:ST. PETERSBURG ST:FLZIP:33733 AGNT NAME: GEORGE W. MARSHALL AGNT PHONE: (813)866-4420 ADDR:P.O. BOX 14042 CITY:ST. PETERSBURG ST:FLZIP:33733 ADDITIONAL INFO REQ: / / / / / / REC: / / APPL COMPLETE DATE: 08/06/79 COMMENTS NEC:N DATE REQ: / / DATE REC: / LETTER OF INTENT NEC:Y DATE WHEN INTENT ISSUED: / / WAIVER DATE: / HEARING REQUEST DATES: HEARING WITHDRAWN/DENIED/ORDER -- DATES: HEARING ORDER OR FINAL ACTION DUE DATE: 1 MANUAL TRACKING DESIRED:N 10/25/79 *** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 13:39:27 FEE PD DATE#1:08/06/79 \$0020 RECEIPT#00032555 REFUND DATE: / / REFUND \$ REFUND DATE: / / REFUND \$ FEE PD DATEM2: / / \$ RECEIPT# APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE: 10/23/79 REMARKS: BARTOW PEAKING UNIT P-4

Ha. Pouroloup

File Number MS2-22555

PERMIT APPLICATION STATUS SHEET

	Type of permit applied for	i Operation
	county Civilla	
	Date Recieved Solo	P.E. seal & signature Check No check Letter of corp. standing
CLOCK DAYS	•	DATE TASK COMPLETED INITIALS
3	Logging by Sec'y	SIGN CR
.5	Review by Sec. head and transfer to permitting Engineer	
28	Completeness Review	9-6-79 BW
	request additiona info * information received * Public Notice Published *	
55	(for Air Construction only) Letter of Intent sent to * Supervisor	
60	Letter of Intent submitted * to District Manager	
75	Intent to issue/deny mailed *	
80	Permitting Eng'r submit finished permit package & recommendations to supervisor	10-15-19 Mas
33	Permit Package to Dist. Engr.	
35	Permit Package to Dist. Manager	10-23-79
90	Final Issuance/denial	10/23/19 RM

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

DEPARTMENT OF ENVIRONMENTAL REGULATION RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Alarida Por	ver Corp. Date 8-6-79
Address P.O. Box 14042	St. Peterslung Dollars \$ 20.00
Applicant Name & Address Alonge	C. Moore, same address!
Source of Revenue Bartain K	Peaking alnik P-4
Revenue CodeO/O/	Application Number <u>AU52-22555</u>
	By Florelle Barron
34454D	By A KOUKE, OSCIVOM



PETER P. BALJET

SXECUTIVE DIRECTOR ...

STATE OF FLORIDA

DEPARTMENT OF POLLUTION CONTROL

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

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

W.D. FREDERICK, JR.

Florida Power Corporation

(Chapter 17-2.04(1))

P. O. Box 14042

Dear : Sir:

St. Petersburg, Florida 33733

A052-2569

Re: AO52-2568

A052-2573

AO52-2571

A052-2574 A052-2575

A052-2572

A052-2576

Marine St. The Department of Pollution Control Regulations require that visible emissions meet compliance of 20 percent opacity by July 1, 1975

1) Visible Emissions-No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere any air pollutants from:...

- a) Existing Sources, until July 1, 1975, the density of which is equal to or greater than that designated as Number 2 on the Ringelmann Chart or the opacity of which is equal to or greater than 40 percent.
- b) New Sources, and after July 1, 1975, existing sources, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart or the opacity of which 🔗 is equal to or greater than 20 percent.
- This subsection 17-2.04(1) does not apply to emissions emitted in accordance with specified emission limiting standards or in accordance with the process weight table (Table I) provided in this chapter.
- d) If the presence of uncombined water is the only reason for failure to meet visible emission standards given in this section such failure shall not be a violation of this rile.

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

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

If you have any questions, please contact this office.

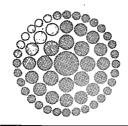
Sincerely,

H. Kerms, P.E.

Pegional Engineer:

West Central Ragion

JHK/JLT/pm



file: Pinellas Co-Al

NOV 1 1978

SOUTHWEST DISTRICT TAMPA

October 24, 1978

Mr. P. D. Puchaty Florida Department of Environmental Regulations 7601 Highway 301 North Tampa, FL 33610

Dear Mr. Puchaty:

Bartow Peakers A052-2568, 2571, 2572, 2573

In accordance with Paragraph 10 of the referenced permits, the Visible Emission Reports are attached.

Sincerely,

D/A. Shantz, Supervisor

Chemical and Environmental Services

Attachment

DAS/hew/MO4 (10/23)

LOCATION BOYLOW P=4

PERMIT NUMBER A052-2573

DATE 5/3/78

TYPE FACILITY GOS TUY Dive

CONTROL DEVICE

STAT	OF LORIDA REGULATION
DEPARTMENT OF EN	IR NMENTAL REGULATION
	CERTIFY THAT
THIS IS TO	VE SUITE STATE OF THE SECOND STATE OF THE SECO

OURS OF OBSERVATION 1-25-2.45

BSERVER K. F. Rom

BSERVER CERTIFICATION DATE 4/19/78

DINT OF EMISSIONS Start

EIGHT OF DISCHARGE POINT

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OBSERVER LOCATION
Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS
Wind Direction

Wind Speed

Ambient Temperature

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

PLUME DESCRIPTION Color

Distance Visible

Other Information

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SUMMARY OF AVERAGE OPACITY

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Readings ranged from _____ to _____% opacity.

The source was/was not in compliance with ___at the time evaluation was made.

NOTES:

I. Minimum of 24 readings to be taken c 15 second

intervals.

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

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LOCATION BEY TO SZ- 2573

PERMIT NUMBER A0 5Z- 2573

DATE 5/3/78

TYPE FACILITY GOS TU(b) WE

CONTROL DEVICE

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STATE	OF LORIDA
	OF LUNIDA
DEPARTMENT OF EN	
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THIS IS TO	CERTIFY THAT
THIS IS IY	

the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by and is a qualified observer of visible emissions.

EPA reference method 9. October 14, 1978

Bearer's Signature

OURS OF OBSERVATION 1.45-2.45

BSERVER KRON

BSERVER CERTIFICATION DATE 4/14/78

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SUMMARY OF AVERAGE OPACITY

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1 6 th	2:15-2:21	60	2.50		
となる。	2:21-2:27	0	10		
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Gi	12:39-2:45	. 0	0		

Readings ranged from ______ to ____% opacity.

The source was/was not in compliance with ____at the time evaluation was made.

NOTES:

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

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DEPARTMENT OF ENVIRONMENTAL REGISTATION ANNUAL OPERATIONS REPORT FORM FOR AIR EMISSIONS SOURCES

For each permitted emission point, please submit a separate report for calendar year 19.77 prior to March1st of the following year.

GENERAL INFORMATION:		
1. Source Name: Florida Power Corp. (Ba	rtow Peaker #4)	
1. Source Name: 2. Permit Number: A052-2573 3. Source Address: Weedon Island, St. Pete		MAR 7 1978
3. Source Address: Weedon Island, St. Pete	rsburg	
		SOUTHWEST DISTRICT
4. Description of Source: Gas Turbine Peaki	ng Unit	TAMPA
·		<u> </u>
•	•	
OPERATING SCHEDULE:24 hrs/day Operated 840 hrs.		<u>52</u> wk./yr
RAW MATERIAL INPUT PROCESS WEIGHT:	•	
Raw Material	Input Process Weight	
N/A		tor
		tor
		tor
		tor
10 ⁶ cubic feet Natural Gas 10 ³ gallons Propane tons Coal		10 ³ gallons No. 2 Oit 0.2 %S 10 ³ gallons Kerosene 10 ⁶ lb Black Liquor Solids
tons Carbonaceous		tons Refuse
Other (Specify type and units)		
EMISSION LEVEL (tons/yr):		
A. 4.39 Particulates		Carbon Monoxide
114.91 Nitrogen Oxide		Total Reduced Sulfur
Hydrocarbon	 	_ Flouride
33.35 Sulfur Dioxide		
Other (Specify type and units)		·
B. Method of calculating emission rates (e.g., use of fu Actual test data	el analysis and materials balar	nce, emission factors drawn from AP 42
I CERTIFICATION:		
I hereby certify that the information given in this repo	ort is correct to the best of m	Howledge.
		r Authorized Representative Director, Power Production
• · ·	Typed Name and Tit	е
•	March 3, 1978	
	Date	· ·

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

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

TO: Files

THRU: Dan A. Williams

FROM: William H. Brown, II

DATE: April 12, 1978

SUBJECT: Florida Power Corporation, Bartow, Air Recon

Unit #1 is a 120 MW, 1197 x 10^6 BTU steam generator. Operated 8131.2 hours in 1977 burning #6 and #2 fuel oil emitting 250 T/yr. TSP, 2343 T/yr NO_X, and 8314 T/yr. SO₂. This unit had no PCD. The B&W burners have been modified, a fuel addtive is used.

Unit #2 is a 122 MW, 1193 x 10^6 BTU steam generator. Operated 7653.9 hours in 1977 burning #6 and #2 fuel oil and natural gas. Emitting 79.24 T/yr. TSP, 15136 T/yr. NO $_{\rm X}$, and 2677 T/yr. SO $_{\rm 2}$, no PCD.

Unit #3 is a 215 MW, 2049 x 10^6 BTU steam generator, operated 6505.3 hours in 1977 burning #6 and #2 fuel oil and natural gas. Emitting 388 T/yr. TSP, 998 T/yr. NO_X and 10429 T/yr. SO₂, no PCD. New low air burners.

4 peaking units using deisel fuel. These units emit 11.97 T/yr. TSP, 312.3 T/yr. NO_X , and 90.6 T/yr. SO_2 .

This complex has a total emission of 729.2 T/yr. TSP. 18789 T/yr. NO_X , 21510.6 T/yr. SO_2 . V.E. at time of Recon \angle 20%. Plant seems to be in compliance.

Best Available Copy

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION



LOCATION BACTOW P-4
PERMIT NUMBER 1052-2573
DATE
TYPE FACILITY PEAKING UNIT
CONTROL DEVICE NonE

Dennis	Α.	Shantz	
	<i></i>		

the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.

nis ceryficate	expires	on UCE.	13,	19/7
/ /				.=1

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Rearer/	ς .	Siona	une.

	HOURS OF OBSERVATION
1	OBSERVER DEANIS SHARTZ
	OBSERVER CERTIFICATION DATE
	POINT OF EMISSIONS
	HEIGHT OF DISCHARGE POINT 30 Feet

CLOCK TIME

OBSERVER LOCATION
Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS
Wind Direction

Wind Speed

Ambient Temperature

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

PLUME DESCRIPTION
Color

Distance Visible

Other Information

Initial		Final
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SW GROUND		
₩.		
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0-5	٠.	
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50% CLOW	27	
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SUMMARY OF AVERAGE OPACITY

	Set	Time	Opacity		
Number		StartEnd	Sum	Average	
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Readings ranged from <u>/c</u> to <u>/c</u> % opacity.

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

NOTES:

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

WEST DISTRIC

OBSERVATION - RECORD

	<i>P</i>		•			STEAM PLUME		AUG 23 1977		
			SECO	NDS		(check if applicable)		SOUTH WEST DISTRIC		
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DEPARTMENT OF ENVIRONMENTAL REGULATION



LOCATION BARTOW P-4
PERMIT NUMBER 4052-2573
DATE
TYPE FACILITY PEAKING UNIT
CONTROL DEVICE NONE

		•
Dennis	Α.	Shantz

the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.

This cerufficate expires on Oct. 13, 1977

,	HOURS OF OBSERVATION
,	OBSERVER DENNIS SHANTZ
/	OBSERVER CERTIFICATION DATE
	POINT OF EMISSIONS
	HEIGHT OF DISCHARGE POINT 30 FCET

CLOCK TIME

OBSERVER LOCATION Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS Wind Direction

Wind Speed

Ambient Temperature

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

PLUME DESCRIPTION Color

Distance Visible

Other Information

Initial			Final
24. 51			
300 51			
SW			•
6 Round			
Q KOU NO		L	
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WE			
0-5			
90			
30% CLOW	2 7		·.
GRAY			
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SUMMARY OF AVERAGE OPACITY

Set	Time	· Opa	· Opacit y		
Number	·StartEnd	Sum	Average		
1	2:00 - 2:06	240	10		
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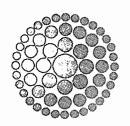
Readings ranged from 10 to 10 % opacity.

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

NOTES:

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

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



Florida Power

August 19, 1977

D. E. R.

AUG 23 1977

SOUTH WEST DISTRICE
ST. PETERSBURG

Mr. P. D. Puchaty Florida Department of Environmental Regulation 7601 Highway 301 North Tampa, FL 33610

Dear Mr. Puchaty:

Enclosed is the Visible Emission Reports for the following units:

Bartow P-4 A052-2573 Higgins P-1 A052-3120 Higgins P-2 A052-3118 Higgins P-3 A052-3119 Higgins P-4 A052-2036

Sincerely,

D. A. Shantz

Environmental Engineer

DAS/hw

Enclosure

File: ENVIRON 5-1

VISITE EMISSION FIELD REPORT

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

DATE	1 Sept 76
TIME	1500

			<i>4</i> ·	•				,		TIME/ <u>5つ0</u>
PERMIT	NUMBE	:R	HO 5	52 - 2 Com	573				_	En Pinellas
SOURC	E NAM	E	Bar	trice	<u> </u>	4,		, <u> </u>	COUM	IY Pinellas
				X\7		Cell	enel	rue of	~7	Ca.
SOURC	E DES	CRIPT	ION (T	YPE) _	<u>. X</u>	12.00	7	relfi		
POINT	OF OF	SERV	ATION		onth	<u> </u>				
DIST	NCE T	o s o	URCE _		(20 X	Y -				
		•								
	SECONDS				SECONDS					DIRECTION OF OBSERVER FROM SOURCE
MIN	0	15	30	4 5	MIN	0	15	30	45	XI-on Z
0	5		5		30					DIRECTION OF WIND FROM SOURSEP 10 1976 SOUTH WEST DISTRICTE SOUT
ı	1 4				31					DIRECTION OF WIND FROM SOURCE? 10
2]				32					SE DIST
3	. !				33					COUTH WED
4			ļļ		34				1	WIND VELOCITY
5	ļ.,		1 1		35					
6					36					
8					37			-		DIRECTION OF SUN FROM SOURCE Was
9	-	,	1-1-		3.9			*	+	· PVDE:LY
10			1		40					
11				_	41				1	
12					42			-		CLOUD COVERAGE (IN%) 20%
13					43					
14					44					
15	<u> </u>				45					NOTE:
16					46				-	I, MINIMUM OF 25 READINGS MUST BE TAKEN.
17					47					2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS
18					48					TO THE NEAREST 5% OPACITY.
19					49					
20			ļ		50					
21					51		-	ļ	 	SUM OF OPACITY READINGS
22					52	1			 	
	\ 				54				-	
24 25			1		55				+	
26	1				56	Ļ			 	TOTAL NUMBER OF READINGS
27			 		57			 	1	
28		<u> </u>	+		58	†			 	1 27.77.07.00.00
29	5		5		59				 	STATE OF FLORIDA
	<u> </u>	<u> </u>	<u> </u>	<u> </u>	п	l				DEPARTMENT OF ENVIRONMENTAL REGULATION
OPACIT	Y = SUI	4 OF OF	ACITY R	EADINGS F READIN		•	5	7.		
OI AOI	' - το	TAL NI	MBER O	F READIN	• \$	10		-		
OBSER	VED	\mathcal{L}	Ju		l. X	Ma		2		
				• :				P	•	Dennis Shantz has completed
NOTES	-									the STATE OF FLORIDA visible emissions evaluation training
										and is a qualified observer of visible emissions as specified by EPA reference method 9.
										This egrificate expires on November 5, 1976
		_								
			•							Kopull Som Some I thank
THIS F	ELD REF	ORT S	HEET IS	DRAWN	IN AC	CORDAI	NCE W	тн т	HE REQU	
THE OF	PACITY	OF ON	IISSIONS) EPA	STANDA	RDS C	F PER	REORMA	NCE FO	R NEW STATIONARY SOURCES, FEDERAL REGISTER VOL.36,

NO. 247, DEC. 23, 1971 AND STATE OF FLORIDA DEPT. OF POLLUTION CONTROL AIR POLLUTION REGULATIONS FAC CH. 17-2.



STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

CENTRAL SUBDISTRICT
P.O. BOX 9205
500 E. CENTRAL AVENUE
WINTER HAVEN, FLORIDA 33880

JOSEPH W. LANDERS JR.

REUBEN O'D. ASKEW

September 5, 1975 Florida Power Corp. Pinellas County AP

Barton P-4

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

Dear Mr. Stewart:

RE: 1974 Operations and Emission Inventory

AC52-2100, A052-2568, A052-2571, A052-2572, A052-2573, A052-2569,

A052-2574, A052-2575, A052-2576

The Department of Environmental Regulation requires the periodic updating of operational data and control test records. (Chapter 17-4.14)

In order that the proper information is transmitted to this Department, please utilize the attached forms, which should be completed for the year 1974, and return to this office within 30 days of date on the letter.

Please use actual figures for items such as process weight, fuel consumption operating time and emission factors.

Thank you for your cooperation in this matter and if there are any questions, contact this office.

Sincerely,

J. H. Kerns, P.E

JHK/DAT/pm

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

		•	-					
SECTION 1		General SOURCE NAME: BA	RTOW P-4			, -		,
		MAILING ADDRESS:	FLORIDA POWER	CORPORATION		· · · · · · · · · · · · · · · · · · ·		
			P. O. Box 1404	2, St. Petersb	ourg, FL	33733		
		TELEPHONE NO:	813/866-4544		-	•	<i>y</i> .	
		OPERATING PERMIT	NO: A052-257	3		ľ.	MAR	NO I
		SOURCE DESCRIPTION	ON: Gas Turbi	ne		\$ * *	Suuth V St. Pi	vest dist
SECTION 2	2:	PROCESS OPERATION	NS:					
8	a .	DURATION OF OPERA		ENCY: 24 hr			52	_wk/yr
ŀ	b.	DESIGN CRITERIA: e.g. 850 MW, 750		55.7 MW		Gross Gene	ration	
c	c.	NORMAL(AVERAGE) (e.g. 424 MW, 670		41.7 MW	=	Hours Ope		
C	d.	MAXIMUM PEAK THAY e.g. 910 MW, 810	r occured during	G ANY ONE DAY	55.7 M	<i>A</i>		
SECTION 3	3:	TOTAL AMOUNT OF PROCESS WEIGHT: TYPE(MA'		PROCESSED, COM		THE SAME		
		N/A	•		N/	A.	ton	s/yr
	•							s/yr
					•			s/yr
				***************************************				s/yr
SECTION L	ļ:	TOTAL AMOUNT OF 1 and % sulfur by				EIGHT, e.g		•
		,	10 cu ft	2343.4	10 ³ gal 1	NO. <u>2</u> 011	.0.18 ₂₅	ULFUR-
			3 10 gal PROPANE		_	KEROS ENE	_	
			tons COAL		_	LACK LIQUO		DS
			OTHER, specify t	ype and units_				
SECTION 5	5 :	EMISSIÖM: ESTIMA	TED/TESTED EMIS	SIONS(TONS PER	R YEAR)			
	a.	Not tested tons o	f particulates	29.8	tons	of sulfur	dioxi	de
		Not Tested tons o		Not ide Teste	d tons	of carbon	n monox	ide
		Not Tested tons o	f hydrocarbon	•	tons		(ot	her)
1	b.	STATE METHOD OF (Lbs 0il) (Gas 0il) (BBI	$\frac{\text{Gal}}{\text{Cal}}$ $\left(\% \text{ S}\right) \left(\frac{2 \text{ Li}}{2}\right)$	D IN DETERMINA DES SO ₂ (BBLS		T	ons SO ₂	
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ANNUAL OPERATING REPORT calendar year 1976

		• • • • • • • • • • • • • • • • • • • •			
SECTION 5(c	ont't)				
c.	STACK TESTED: NONE	date		• ,	
	STACK TEST CONDITIONS:		PROCESS	RATE DURING T	rest
	STACK TEST CONDUCTED BY	:			
	STACK TEST WITNESSED BY	:		· · · · · · · · · · · · · · · · · · ·	
SECTION 6:	OPERATIONAL PROBLEMS, I	F ANY: NORMAL			
	•				

b.	TYPE OF MAINTENANCE PERFORMED: ROUTINE
c.	NUMBER OF UPSETS LASTING MORE THAN FOUR HOURS DURING THE YEAR: UNKNOW
ď.	NUMBER OF UPSETS LASTING MORE THAN ONE HOUR BUT NOT MORE THAN FOUR HOURS:

IMPROVEMENTS MADE TO PROCESS/POLLUTION CONTROL EQUIPMENT:

CERTIFICATION:

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

Signature of owner or authorized representative

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

UNKNOWN

March 4, 1977

NUMBER OF UPSETS LASTING LESS THAN ONE HOUR:

Date