

# 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: AO52-253215A (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:

## 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

## 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.

# 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.

# 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
Clerk

P 079 948 456

Mr. Scott Osbourn Senior Enviromental 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

Postage Certified Fee Special Delivery Fee Restricted Delivery Fee Return Receipt showing to whom and Date Delivered Return Receipt showing to whom, Date, and Address of Delivery

Postmark or Date

TOTAL Postage and Fees

3800, Form



# Department of Environmental Protection

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

Virginia B. Wetherell Secretary

In the Matter of Applications for Permits by:

DEP Files:

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

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 1955 \_\_\_\_\_ 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.

(Cterk) JUN 19 1995 (Date)

P 079 948 227

RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COLERAGE PROVIDED NOT FOR INTERNATIONAL MAIL (See Reverse)

MR W J PARDUE MANAGER ENV PROGRAMS FLORIDA POWER CORP PO BOX 14042 - MAC H2G ST PETERSBURG FL 33733

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ADDRESS completed		MR W J PARDUE MANAGER ENV PROGRAMS FLORIDA POWER CORP PO BOX 14042 - MAC H2G ST PETERSBURG FL 33733	4b. Ser Regis Certi	019 948 227 vice Type stered □ Insured	ou for using Return
your RETURN	6.	Signature (Addressee)  Signature (Agent)  Form 3811, December 1991 *U.S. GPO: 1993—352	and t	essee's Address (Only if requested fee is paid)	Thank y



# 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: AO52-253217A County: Pinellas

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

No. 3

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. 3 and is composed of a General Electric Company, Serial No. 335X117 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217710 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: 07

Replaces Permit A052-253217, issued 11/23/94.

Page 1 of 8

Permit: A052-253217A

Project: Bartow Peaking Unit

No. 3

#### 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. 3 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. 3 are not restricted (8760 hours per year). [Specified in permit application]
- 5. The peak heat input rate of the Bartow Peaking Unit No. 3 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. 3 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. 3 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: A052-253217A

Project: Bartow Peaking Unit

No. 3

#### 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. 3 on Page 8 of this permit. The graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 3 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 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: A052-253217A

Project: Bartow Peaking Unit

No. 3

#### 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 A052-167174 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 AO52-167174 and Rule 62-4.070(3), F.A.C.]

Permit: A052-253217A

Project: Bartow Peaking Unit

No. 3

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: A

A052-253217A

Project: Bartow Peaking Unit

No. 3

#### 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. 3. 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. 3 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: A052-253217A

Project: Bartow Peaking Unit

No. 3

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 A052-167174 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

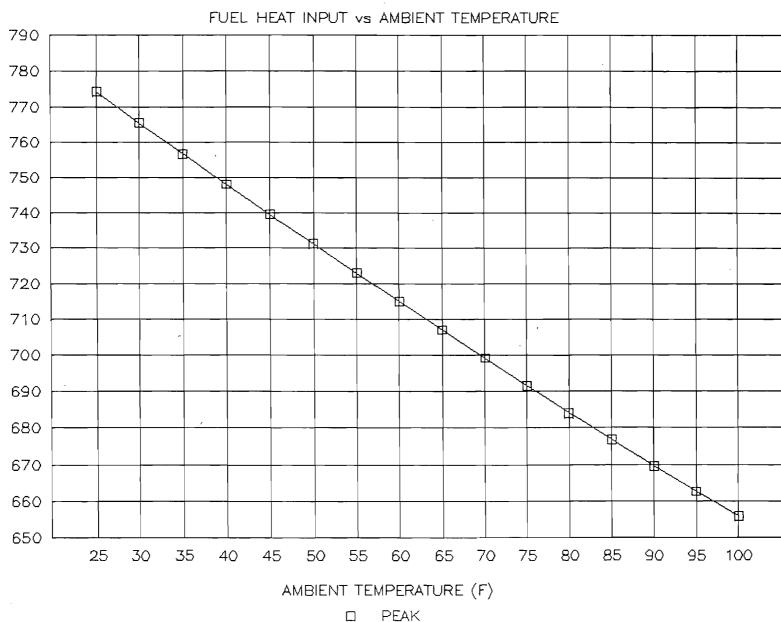
/Z/ Richard D. Garrity, Ph.D.

Director of District Management

Southwest District

5fpc217a.pmt

# BARTOW COMBUSTION TURBINE



(MBTU/HOUR)

HEAT INPUT

Page

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#### 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, pr 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 récords 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 Governor Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619

Virginia B. Wetherell Secretary

In the Matter of Applications for Permits by:

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

DEP Files: A052-253215

#### NOTICE OF PERMIT ISSUANCE

Enclosed are air pollution operating permits A052-253215, A052-253216, A052-253217 and A052-253218 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.

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
- (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. 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.

These permits 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.

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

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.

(Date)

Florida Power Carp Florida Power Carp  Gerthed Fee Deturs burg, FL  Special Delivery Fee 3373  Restricted Delivery Fee		V. Trogram
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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: A052-253217
County: Pinellas

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

No. 3

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. 3 and is composed of a General Electric Company, Serial No. 335X117 electric generator driven by a General Electric Company, Model MS 7000, Serial No. 217710 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: 07

Replaces Permit A052-167175

Page 1 of 8

Permit: A052-253217

Project: Bartow Peaking Unit

No. 3

#### 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. 3 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. 3 are not restricted (8760 hours per year). [Specified in permit application]
- 5. The maximum (peak) heat input rate of the Bartow Peaking Unit No. 3 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. 3 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. 3 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: A052-253217

Project: Bartow Peaking Unit

No. 3

#### 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. 3 on Page 8 of this permit. The graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 3 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: A052-253217

Project: Bartow Peaking Unit

No. 3

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 A052-167175 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 A052-167175 and Rule 62-4.070(3), F.A.C.]

Permit: A052-253217

Project: Bartow Peaking Unit

No. 3

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	O.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)

Florida Power Corporation

St. Petersburg, Florida

Permit: A052-253217

Project: Bartow Peaking Unit

No. 3

#### 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:

	<u>Pounas per Hour</u>	Tons per Ye
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;
- a copy of the graph of Fuel Heat Input versus Ambient Temperature for Peaking Unit No. 3 noting the maximum heat input and the ambient temperature during the compliance test; and
- a copy of the fuel oil analysis. (3)

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

Permit: A052-253217

Project: Bartow Peaking Unit

No. 3

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 A052-167175 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. 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

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Richard D. Garrity, Ph.D.

Director of District Management

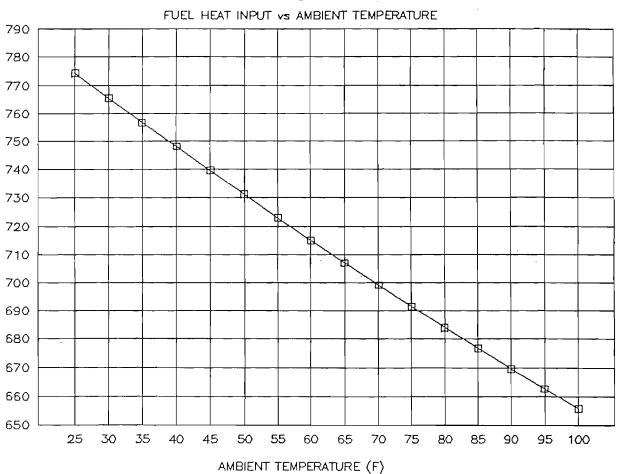
Southwest District

4fpc217o.pmt(1)

Permit: Project:

A052-253217 Bartow Peaking Unit No.

# 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.

DER Form 4	
form Title	
Effective Date	
DER Application No	(Filled in by DEP)

APPLICATION FOR PERMIT TO OPERATE AIR	R RENEWAL OF POLLUTION SOURCE(S) A 050 - 253 2H8 pollution source(
If major alterations have occurred, the appearance Application Form.	pplicant should complete the Standard Air
Source Type:Combustion Turbine	Renewal of DER Permit No. A0-52-167175
Company Name: Florida Power Corporation	County: Pinellas
Identify the specific emission point source(s) Kiln No. 4 with Venturi Scrubber; Peaking Unit	addressed in this application (i.e., Lime No. 2, Gas Fired):
Bartow Peaking Unit #3	
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.

- 1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05. No fee required.
- 2. Have there been any alterations to the plant since last permitted? [ ] Yes 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. N/A
- Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [ ] Yes [ ] No
- 7. Has the annual operating report for the last calendar year been submitted? [x] Yes [ ] No If no, please attach.

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

Page 1 of 2

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

Type	Contaminant	%W t	Utilization   Rate   lbs/r
	Туре	Туре	Type %Wt

- B. Product Weight (lbs/hr): \_\_\_\_
- C. Fuels

Туре	Consu	mption*	Maximum Heat	
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/hr	)
No. 2 Fuel Oil	121	1211	~~714 <sup>1</sup>	

D.	Normal Equipment Operating Time:	hrs/day $24$ ; days/wk $7$ ; wks/	$yr 52_;$
	hrs/yr (power plants only) $8,760$ ,	if seasonal, describe	

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

- \*During actual time of operation.
- \*\*Units: Natural Gas-MMCF/hr; Fuel Dils-barrels/hr; Coallbs/hr.
- \*\*\*Attach letter of authorization if not previously submitted
  - <sup>1</sup>Based on 59°F reference temperature

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

OFFICIAL NOTARY SEAL
MARYJANE R BLAIN
NOTARY PUBLIC STATE OF FLORIDA
COMMISSION NO. CC373234
MY COMMISSION EXP. JUNE 3,1998

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P. O. Box 14042, MAC H2G

			Address
St.	Petersburg,	${ t FL}$	33733

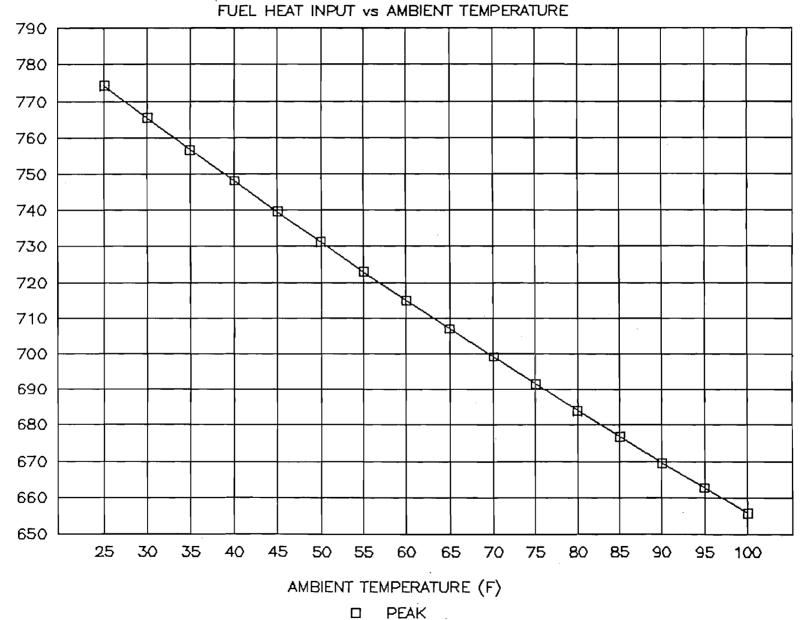
20 June 1994

State Zip (813) 866-4387

te Telephone No.

Page 2 of 2

this 20th day of June, 18 Manyone to Blair





# 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.: A052-167175

County: Pinellas

Enclosed is Amended Permit Number A052-167175 to operate the Bartow Peaking Unit No. 3, 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. 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

Sincerely,

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  $\underline{\rm JAN~2.6.1990}$  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.

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.: A052-167175

County: Pinellas

Expiration Date: 8-21-94
Project: Bartow Peaking
Unit No. 3

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. 3. The peaking unit is composed of a General Electric Company, Serial No. 335X117 electric generator driven by a General Electric Company Model No. MS 7000, Serial No. 217710 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: 07

Replaces Permit No.: A052-89903

PERMITTEE: Permit/Certification No.: A052-167175 Florida Power Corporation Project: Bartow Peaking Unit No. 3 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 turbine 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 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, 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 delivery. The fuel oil sample is to be analyzed for the following and the analysis kept on site for future inspections: BTU content b. API Gravity Density c. 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.: A052-167175 Project: Bartow Peaking Unit No. 3

- 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 compliance test conducted on August 3, 1989 this peaking unit is permitted to operate at 45 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.

12. 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 1989.

Amended thi@\>\_day of\_

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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

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

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):

- 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.

## **BEST AVAILABLE COPY**



# Florida Department of Environmental Regulatic

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secreta. Richard Garrity, Deputy Assistant Sec:

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. 3

Enclosed is Permit Number A052-167175 to operate the Bartow Peaking Unit No. 3, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing) on it. The petition must conform to the requirements of Chapters 17-103 and 28-5.201, FAC, and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 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.

Page Two

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

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal oursuant 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.

Sinperely,

George W. Richardson Air Permitting Engineer

GWR/gr

cc: Pinellas County Department of Environmental Management

## <u>CERTIFICATE</u> OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 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

# **BEST AVAILABLE COPY**



# Florida Department of Environmental Regulation

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

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secret. Richard Garrity, Deputy Assistant Se.

PERMITTEE: Florida Power Corporation Post Office Box 14042 St. Petersburg, Florida 33733 PERMIT/CERTIFICATION
Permit No.: A052-167175
County: Pinellas

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

Unit No. 3

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

For the operation of an oil fired, gas turbine driven electrical generating unit designated as Peaking Unit No. 3. The peaking unit is composed of a General Electric Company, Serial No. 335X117 electric generator driven by a General Electric Company Model No. MS 7000, Serial No. 217710 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: 07

Replaces Permit No.: A052-89903

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

PERMITTEE: Permit/
Florida Power Corporation Project

Permit/Certification No.: A052-167175
Project: Bartow Peaking Unit No. 3

#### 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 turbine 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 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.)).
- 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 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.
- 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.: A052-167175
Project: Bartow Peaking Unit No. 3

- 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 conducted on August 3, 1989 this peaking unit is permitted to operate at 45 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.
- 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<sub>10</sub>, carbon monoxide, SO<sub>2</sub>, and NO<sub>x</sub> 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 27 day of 507-

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.

A052-167175

#### STATE OF FLORIDA

## DEPARTMENT OF ENVIRONMENTAL REGULATION

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



D. E. R.

BOB GRAHAM GOVERNOR

VICTORIA L TSCHINKEL

JUL = 6 1989

APPLICATION FOR RENEWAL OF TARREST DISTRICT
PERMIT TO OPERATE AIR POLLUTION SOURCE(SD)

Source Type: Cor	nbustion Turbine	Renewal of DER Permit No. A0-52-89903
Company Name: Flo	orida Power Corporation	County: Pinellas
	ific emission point source(s)	addressed in this application (i.e., Lime
Kiln No. 4 with N Bartow Peaking	Venturi Scrubber; Peaking Unit Unit # 3	No. 2, Gas Fired):
Bartow Peaking	•	No. 2, Gas Fired):  City: St. Petersburg
Bartow Peaking	Unit # 3  Street: Weedon Island	

- 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  $[{}^{
  m X}]$  No If minor alterations have occurred, describe on a separate sheet and attach.
- 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 curations, permit? [] Yes [X] No. If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
- 6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes [] No
- 7. Then the annual operating report for the last calendar year been submitted? [X] Yes [X] Yes

UER 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	Contaminant   Type SWt	Utilization Rate lbs/hr
·		
	Andrew State of the State	

8.	Product	Weight	(lbs/hr):
----	---------	--------	-----------

Fuels

Type (Be Specific)	Consump Avq/hr*	tion* Hax/hr**	Heximum Heat Inout (MHBTU/hr)
No. 2 Fuel Oil	121 ·	121	. 714
•			

D.	Normal	Equipme	nt Opera	ting Time:	hrs/day 24	_; days/wk	7	; wks/yr _	52;
··	hrs/yr	(power	plants o	nly) 8760;	if seasonal,	describe		~	
				•			_		

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

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

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

MILLIUSE STORE OF THE
Signature, Owner or Authorized Repuseentative O:4
(Notarization is mandatory)
J. A. Hancock, Vice President, Fossid, Operations, 5
Ivned Name and little
Post Office Box 14042
Address CTOTE WAY
St. Petersburg Florida 33783 STATE State Zipuministriking
State Zip
(185)01 (1813)866-4324
Date / Telephons No.
2 gr 2 X aux 8 assedu

St. Pet∉rsburg	Flo
4 23/89	(813)86

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

#### 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

November 6, 1984

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

> Pinellas County - AP Re:

Florida Power Corporation Bartow Peaking Unit #3

A052-89903

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 A052-89903 as follows:

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

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, 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



October 5, 1984

BOB GRAHAM GOVERNOR

VICTORIA J. TSCHINKEL SECRETARY

DR. RICHARD D. GARRITY DISTRICT MANAGER

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 #3

Attached is Permit No. A052-89903. 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.D.

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.: A052-89903

County: Pinellas

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

Unit #3

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the 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: 07

Replaces Permit No.: A052-22554

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

PERMITTEE: Permit/Certification No.: AO52-89903 Florida Power Corporation Project: Bartow Peaking Unit #3

#### GENERAL CONDITIONS:

- 1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of 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.

Permit/Certification Number: A052-89903 PERMITTEE: Florida Power Corp. Project: Bartow Peaking Unit #3 6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of; a. Having access to and copying any records that must be kept under the conditions of the permit: b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules. Reasonable time may depend on the nature of the concern being investigated. 8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information: (a) a description of and cause of non-compliance; and (b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit. DER Form 17-1.201(7) Page 3 of 6.

Permit/Certification No: A052-89903 PERMITTEE: Florida Power Corporation Project: Bartow Peaking Unit #3 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. 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.: A052-89903 Florida Power Corporation Project: Bartow Peaking Unit #3

#### 14. (con't)

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

- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the date(s) analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- the results of such analyses.

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

## SPECIFIC CONDITIONS:

- 1. 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.

PERMITTEE: Permit/Certification No.: AO52-89903 Florida Power Corporation Project: Bartow Peaking Unit #3

#### SPECIFIC CONDITIONS (con't):

- 3. 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).
- 5. 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).
- (C) Any changes in the information contained in the permit application.
- 9. 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 standay of October 1984.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Richard D. Garrity, Ph.D.

District Manager

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

PAID JUL 1 2 1984

#### STATE OF FLORIDA

# DEPARTMENT OF ENVIRONMENTAL REGULATION

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



D. E. R.

BOB GRAHAM GOVERNOR VICTORIA J. TSCHINKEL SECRETARY

JUL 12 1984

APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOUR DECEMBER APPLICATION SOUR DECEMB

		alterations have occurred, the ation form.	applicant should complete the Standard Air			
Source	Type: _	Combustion Turbine	Renewal of DER Permit No. A0-52-22554			
Company	Name:	Florida Power Corporation	County: Pinellas			
Kiln No	. 4 with	pecific emission point source(son Venturi Scrubber; Pesking Unicking Unit #3	) addressed in this application (i.e., Lime t No. 2, Gas Fired):			
Source	Location	: Street: Weedon Island	city: St. Petersburg			
	UTM: Eas	342180	North <u>3082870</u>			
	Latitud	9: 2 7 · 5 1 · 3 5 · N.	Langitude: 8 2 a 3 6 · 0 9 mW.			

- Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
- 2. Have there been any alterations to the plant since last permitted? [ ] Yes [X] No If minor alterations have occurred, describe on a separate sheet and attach.
- 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 pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? [X] Yes  $[\ ]$  No
- 7. Has the annual operating report for the last calendar year been submitted? [X] Yes [] No If no, please attach.

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

Page 1 of 2

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Туре	Contaminant	%W·t	Rate	Utilization lbs/hr

8. Pr	oduct	Weight	(lbs/hr)	:
-------	-------	--------	----------	---

C. Fuels

Туре	Consum	Maximum Heat		
(Be Specific)	Avq/hr+	Max/hr++	Input (MM8TU/hr)	
No. 2 Fuel Oil	121	121	714	
			-	
	-			
			<del></del>	

D. Nor	mal Equipment Operati	ing Time: h	rs/day <u>24</u>	; days/wk	7; wks/yr	52_;
. hrs.	/yr (power plants on)	ly) <u>199</u> ; i	_; if sessonal, describe			

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

*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

ΕR	Form	17-1.202(	<b>4</b> )	
ff	ective	November	30,	1982

AHOLOCO	-
Signature, Owner or Aut (Notarization J. A. Hancock, Vice Pr	horized Representative is mandatory) esident, Fossil Operation
Typed Name Post Office Box 14042	and Title
St. Petersburg,	FL 33733
7/8/84 City	State Zip (813) 866-4524

Telephone No.

Page 2 of 2

/ Date



BOB GRAHAM GOVERNOR JACOB D. VARN SECRETARY

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:

Enclos	sed is	Permi	t Numbe	r A	052-22554		,	dat	:ed	October	23,	197,9
to	operat	e the	subject	air	pollution	so	urce					
issued	l pursu	lant t	o Secti	on_	403		Flori	lda	Sta	tutes.		

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

# 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.



EOB 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. AO52-22554

COUNTY: Pinellas

PROJECT: Peaking Unit

Bartow P 3
, Florida Statutes, and Chapter 403 This permit is issued under the provisions of Chapter \_\_\_ 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s), plans, documents, and specifications attached hereto and made a part hereof and specifically described as follows:

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

17 East 342.2

North 3082.9

Located at Weedon Island, St. Petersburg

Replaces Permit NO: A052-2572 NEDS NO:

Point ID: 0011

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.: A052-22554

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:

Determination of Prevention of Significant Deterioration (PSD)	
Contification of Cornelings with State Water Quality Standards (Section 401 PL)	
[ ] Certification of Compliance with State Water Quality Standards (Section 401, PL 9	2-500

SPECIFIC CONDITIONS:

PERMIT NO.:

A052-22554

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 Do Lo be , 19 3

STATE OF FLORIDA

DEPARIMENT OF ENVIRONMENTAL REGULATION

P. David Puchaty District Manager

Com	nty	Pu	iellas		Type of	Permit	Ober	aTe.
		•			Permitt		,	
				Krag UniT-				•
						Superv. Init		
1.			ackage i cuments i	s complete ncluded.	and all		Jo	
2.	The correct		ions (if	required)	are		0	
3.	with : ified	recomme	endations ms of ap	nts are at which are plicable r	just-		<u> </u>	
4.	accura define	ately d	lescribes limits o	ion on the and clear f the proj	ly		<b>(</b>	
5.	and ac	dequate		is correct purpose of site.			<b>}</b> p	
6.	The exthe pe		on date	is correct	on	- <b>X</b>	p	
7.	applic	cable)	are corr	ions (if ect and ju plicable r		Ro	· · · · · · · · · · · · · · · · · · ·	
8.	ified.	. Any ined ir	special	rect and j conditions tten revie	are	RS	<b>&gt;</b>	
9.				tly signed f applicab		R	)	
0.	the ne	eed to ons wit ne appr	obtain p hin the	been check ermits fro department sections h	m other , and if		<u>'</u> 6	

SIGNED:

DATE:

Supervisor Robert R. Garrell
PE III Dan a William PE III

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTERC	FFICE	MEMOR	IANDUM
--------	-------	-------	--------

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

TO: P. David Puchaty

THRU: Dan A. Williams

FROM: William H. Brown

DATE: October 16, 1979

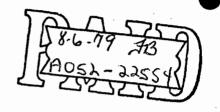
SUBJECT: Florida Power Corporation

Bartow P 3 A052-2255 4

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





#### STATE OF FLORIDA

# AUG 6 1979 SOUTHWEST DISTRICT

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

Source Type: [X] Air Pollution [ ] Incine	rator
Application Type: [ ] Construction [X] Operation [ ]	Modification [X] Renewel of DER Permit No. A052 2572
Company Name: Florida Power Corporation	County: Pinellas
·	otion (i.e.: Lime Kiin No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas
Fired): Bartow Peaking Unit P-3	
	City: St. Petersburg
Latitude: ° "N.	
•	
P.O. Box 14042 St. Petersburg	e President, Power Production FL 33733
Appl. Address: 1404 Box 14042; Oc. 1eeel Bully	<u> </u>
	BY APPLICANT AND ENGINEER
A. APPLICANT	71
	Florida Power Corporation
true, correct and complete to the best of my knowledge and bene	operating permit are ef. Further, Lagree to maintain and operate the pollution control source and
of the Department and revisions thereof. I also understand that a pa	ie provisions of Chapter 403, Florida Statutes, and all the rules and regulations armit, if granted by the Department, will be nontransferable and I will prompt
ly notify the Department upon sale or legal transfer of the permitte	d establishment.
0.4	Hora ( VIloro
George C. Moore  Name of Person Signing (please Type or Print)	Signature of the Owder or Authorized Representative and Title
· ·	Date: 7/31/79 Telephone No.: 813/866-4140
*Attach a letter of authorization.	
Actual a letter of button zation.	
B. PROFESSIONAL ENGINEER REGISTERED IN FLORIDA	·
This is to certify that the engineering features of this pollution of	control project have been designed/examined by me and found to be in con-
is reasonable assurance, in my professional judgement, that the poll	ment and disposal of pollutants-characterized in the permit application. There lution control facilities, when properly maintained and operated, will discharge
an effluent that complies with all applicable statutes of the State that the undersioned will furnish the applicant a set of instruction	of Florida and the rules and regulations of the Department. It is also agreed as for the proper maintenance and operation of the pollution control facilities.
and, if applicable, pullution sources.	
Signature: LeageW Marshall	Mailing Address: P.O. Box 14042
Name: George W. Marshall	St. Petersburg, FL 33733
(Pleasa Type)	
Company Nama M Elorida Power Corporation	Telephone No.: 813/866-4420
Februar Braistration Number 6008	Date: July 31, 1979
E . NO.6008	Date:
AUG. 14. (All ASSET)	<b>V</b>
1956 F	
DES FORM LENGTH TO PARENT OF 5	•
THE TAX OF TORY WITH	
Name: George W. Marshall (Please Type)  Continue Name M Florida Power Corporation  Florida Registration Numbur 6008  NO. 6008  NO. 6008  AUG. 14  1956  MECHANICAL  DEA Form ENGLANCIAL  OF FLORIDATION	•

#### SECTION II: GENERAL PROJECT INFORMATION

	turbine peaking unit.
_	
•	
•	
	abolition of Business Course distribution (Course and Davids April 2011). M. (A
•	chedule of Project Covered in this Application (Construction Permit Application Only). N/A
	Start of Construction: Completion of Construction:
	costs of Construction. (Note: show breakdown of estimated costs only for individual components/units of the project serving pollution courpose. Information on actual costs shall be furnished with the application for operation permit.)  N/A
	ndicate any previous DER permits, orders and notices associated with the emission point, including permit issuance and expiration dates.
	DER Permit A052 2572 issued 8/21/74 expires 8/21/79.
	s the emission point considered to be a New* or Existing* source; as defined in Chapter 17-2.02(5) & (6), Florida Administrative Code?
	New X Existing
	s this application associated with or part of a Development of Regional Impact (DRI) pursuant to Chapter 380, Florida Statutes, and Chapter 2, Florida Administrative Code? —— Yes ——— No
١	Formal Equipment Operating Time: hrs/day: Ave. 5; days/wk: 7; 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.
Ŗ	

#### SECTION III: AIR POLLUTION SOURCES & CONTROL DEVICES

(other than incinerators)

A. Raw Materials and Chemicals Used in Your Process:	N/	ŀ
--	----	---

	<u></u>		100	
Description	Utilization Rate Ibs./hr.		Relate to Flow Diagram	
				<del></del>
B. Process Rate: N/A				
1) Total Process Input Rate (lbs./hr.):	<b>,</b>	· ·		
2) Product Weight (lbs/hr):	·			·

C. Airborne Contaminants Discharged: 19

1978 data

Name of Contaminant		tual narge*	Allowed Discharge Rate Per Ch. 17-2, F.A.C.**	Allowable Discharge * * * (lbs./hr.)	Relate to Flow Diagram	
	lbs./hr.	T/yr.	Cn. 17-2, F.A.C.	(iDs./iir.)		
Particulate	10.46	5.82	N/A	N/A		
S0 <sub>2</sub>	79.42	44.15	N/A	N/A		
NOχ	274.91	152.84	N/A	N/A		

D. Control Devices: N/A

Mana and Town	0	pasiata aut	Dance of Dankiela	Basis for Efficiency ††
Name and Type (Model and Serial No.)	Contaminant	Efficiency <sup>†</sup>	Range of Particles Size Collected (in microns)	Basis for Efficiency
				<u>.</u>

<sup>\*</sup>Estimate only if this is an application to construct.

<sup>\*\*</sup>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.)

<sup>••••</sup>Using above example for a source with 260 million BTU per hour heat input: 0.1 lbs x 260 MMBTU = 26 lbs./hr.

<sup>†</sup>See Supplemental Requirements, page 5, number 2.

<sup>††</sup>Indicate whether the efficiency value is based upon performance testing of the device or design data.

Type (Be	Specific)	·	Consumptio	n•		Maximum	
		avg./l	hr.	Max./hr.		Heat Input (MMBTU/hr)	
Distillate	oil	36306 1	b.	36306 lb.		708	.:
·						· 	· · · .
				· .		-	
Jnits: Natural Gas	- MMCF/hr.; Fue	el Oils, Coal - lbs./h	ir.		•		
Fuel Analysis:					•		
Percent Sulfur:	0.18			_ Percent Ash:	trace		·
Density:	7.16	,		_lb./gal.			
Heat Capacity:	19510	)	<u>; ::</u>	BTU/Ib	139692		BTU/g
Other Fuel Con		· .				<u> </u>	
	•					•	
If applicable, in	dicate the percen	t of fuel used for s	pace heating:	√A Annu	ual Average:	Maximum:	
Indicate liquid	or solid wastes ge	nerated and metho	od of disposal:	N/A	•		
*		<u> </u>				<u> </u>	
					• •	and the second s	
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		·	· · · · · · · · · · · · · · · · · · ·		
					,		· ·
		low Characteristics	•	r each stack):		10 V 13	
Stack Height: .	45		•	r each stack): _ ft. Sta	ck Diameter:	18 X 13	
Stack Height: Gas Flow Rate:	45 104329	97	•	r each stack): _ ft. Sta		0.20	
Stack Height: .	45 104329	97	•	r each stack): _ ft. Sta	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97	•	r each stack): _ ft. Sta	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97	•	r each stack): _ ft. Sta	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97	•	r each stack): _ ft. Sta	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97		r each stack): — ft. Sta — ACFM Gas — %	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97		r each stack): _ ft. Sta	ck Diameter:	0.20	
Stack Height: Gas Flow Rate:	45 104329	97		r each stack): — ft. Sta — ACFM Gas — %	ck Diameter:	0.20	
Stack Height: -Gas Flow Rate: Water Vapor Co	45 104329 pontent: 5	)7 SECT	TION IV: INCIN	r each stack):  ft. Sta  ACFM Gas  %	ck Diameter:	930	Type VI
Stack Height: Gas Flow Rate	45 104329	97		r each stack): — ft. Sta — ACFM Gas — %	ck Diameter:	930 Type V (Lig. & Gas	Type VI (Solid By-prod.)
Stack Height: Gas Flow Rate: Water Vapor Co	45 104329 pontent: 5	SECT	Type II	r each stack):  ft. Sta  ACFM Gas  %  ERATOR INFORM	ck Diameter:  Exit Temperature:	930 Type V	
Stack Height: -Gas Flow Rate: Water Vapor Co	45 104329 pontent: 5	SECT	Type II	r each stack):  ft. Sta  ACFM Gas  %  ERATOR INFORM	ck Diameter:  Exit Temperature:	930 Type V (Lig. & Gas	(Solid
Stack Height: Gas Flow Rate: Water Vapor Co	45 104329 pontent: 5	SECT	Type II	r each stack):  ft. Sta  ACFM Gas  %  ERATOR INFORM	ck Diameter:  Exit Temperature:	930 Type V (Lig. & Gas	(Solid
Stack Height: Gas Flow Rate: Water Vapor Co	45 104329 content: 5	SECT	Type II	r each stack):  ft. Sta  ACFM Gas  %  ERATOR INFORM	ck Diameter:  Exit Temperature:	930 Type V (Lig. & Gas	(Solid
Stack Height: Gas Flow Rate: Water Vapor Co	Type O (Plastics)	SECT Type I (Rubbish)	Type II (Refuse)	r each stack):  ft. Sta  ACFM Gas  %  ERATOR INFORM	Exit Temperature:  EXIT Temperature:  Type IV (Pathological)	930 Type V (Lig. & Gas	(Solid

Model No.:

Date Constructed: .

	Volume	Heat Release	F	uel .	Tem	p. (°F)
	(ft.)3	(BTU/hr.)	Туре	BTU/hr.	<u></u>	
Primary Chamber					i	
Secondary Chamber					:	٠.
tack Height:	ft. Stack Diam	eter:	-Stack Temp.:			
	ACFM					
Type of Pollution Contro	·	Cyclone [ ] Other (Specify):	) Wet Scrubber	4 4 4 4 4		
		trol Device:				
		trol Device:		olassa and an and an and an		
	y Effluent Other Than That E	Emitted From the Stack (scrul				
	y Effluent Other Than That E					
	y Effluent Other Than That E	Emitted From the Stack (scrul				
	y Effluent Other Than That E	Emitted From the Stack (scrul				

#### 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.
- 3. An 8%" x 11" flow diagram, which will, without revealing trade secrets, identify the individual operations and/or processes. Indicate where row 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 Regulation.
- 8. With construction permit application, include design details for control device(s). Example: for baghouse, include cloth to air 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.

51-1022



# STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

D. P. C.

JIIN 25 1975
WEST CENTRAL REGION
WINTER HAVEN

# APPLICATION TO OPERATE/OXINSXXXXXX POLLUTION SOURCES

# $\begin{array}{c} \textbf{SECTION I} - \textbf{GENERAL INFORMATION FOR ALL POLLUTION SOURCES} \\ \textbf{I} \quad \textbf{TO BE FILLED IN BY APPLICANT} \\ \end{array}$

Source Type: Type application:	Air Pollution [ x] Operation		nporary Operation	[ ] Construction	
Status Source:	[ ] New	[x] Exis	_	[ ] Modification	
Source Name:	Bartow Uni	t No. 3	<u> </u>	County: Pine	llas
Source Location: Str (Water Source Only) (Air Source Only)	) Lat:		" Long: _ North _	City: <u>St. Peters</u> 3082720	sburg, FL '"
Appl. Name and Title Appl. Address:	_				
		<u>·</u>	GION (*BY BUREAU OI	<u></u>	
Control No: Region	l	_ County	Type	*Project	
Type Permit	Date Rec'd	*Permit No	o. *Issue Date	*Compl. Date	*Exp. Date
Source Description: Control Equipment:					
	- :		ater Permits	=	
Receiving Body Code: Station No.: Influent				Code:	
Effluent: Flow rate BOD, lbs/ Susp. Sol. Other:	day	Average	Design	% Reduct	ion
			Air Permits		
Operating Time: Fuel: Type Incinerator: Capacit	[ ] Continuous			mittent t e	
Mfg. &	Model	_			
Pollutant Emissions, ll Particu Sulfur Other:	late Oxides	Actual	Design	Allowable	
Implementation: Esti Estimated Start of Co	• • •		Estimated Co.	mpliance Date	

## DESCRIPTION OF PROPOSED PROJECT

	N/A
Schedule	of Project Covered in this Application (Construction Permit Application Only).
	ally or State Financed Projects only:
Pl:	anning Complete N/A
In	dicate other local, state and/or federal agency approvals and dates
	and the control to the control of the control agency approvate and the control of
	ojects:
	art of Construction
	Construction (Show a breakdown of costs for individual components/units of the proposed project servi control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	control purpose only). Information on actual costs shall be furnished with the application for operation perm
	N/A
	N/A
pollution	N/A
Indicate a	N/A  N/A  ny previous DPC permits, issuance dates, and expiration dates.
pollution	N/A

#### AIR POLLUTION SOURCES & CONTROL DEVICES

A.	Identification of Ai  1) [X] Particul  a) [ ] Dust	ates	ish c	) [ ] Smoke	d) [ ] O	ther (Identify)		
	2) [x] Sulfur C a) [x] SO <sub>x</sub>		b) [ ] Reduced Sulfur as H <sub>2</sub> S ands			S c) [ ] Other (Identify) c) [ ] Other (Identify)		
	3) [x] Nitroger a) [x] NO <sub>x</sub>	n Compounds as NO <sub>2</sub> b) [						
	4) [ ] Flouride	es	5) [ ] Acid Mist			6) [ ] Odor		
	7) [ ] Hydroca	arbons	8) [	] Volatile Organ	nic Compounds			
	9) [ ] Other (S	Specify):						
В.	Raw Materials and (	Chemicals Used (Be Sp	pecific)	N/A				
	Description	Utiliza Tons/ lbs./day	day,	Approxi Contam Conte	inant	Relate to Flow Diagram		
				Туре	% <b>W</b> t.			
					-	•	_	
			_		-			
C.	2) Product Weigh	Weight Rate	lb./!	hr. expressed as .				
	3) Normal Opera	ating Time 24 hc	<u>urszuay</u>	<u>′</u> , 1	it seasonal describ	e:N/A		
D.	Airborne Contamin	ants Discharged:						
Йа	me of Contaminant	Actual Discharge		Discharge Criteria*	Allowable Discharge			
P	articulate	0.23						
S	02	2.32						

<sup>\*</sup> Refer to Chapter 17-2 Florida Administrative Code (Discharge Criteria: Process Weight Rate, #/tonP<sub>2</sub>O<sub>5</sub>, #/M BTU/hr etc.)

Name	Eff.		ons of Operation, Size Range, etc.	Relate to Flow Diagram
Fuels:	•			
Type (Be specific)	Daily Con	sumption	Heat Input BTU/hr.	Relate to Flow Diagram
99% Oil	6970 Bb1		1.79 x 10 <sup>9</sup>	
1% Gas	2130 Mcf		84 x 10 <sup>6</sup>	
Additive (Liquimag) Describe briefly, without revealing identified in this application:	1728 1bs trade secrets,	=	458000 esses/operations gener	ating the airborne emissi-
Fuel is burned in the turbine which turns			steam. This s	steam turns the
	the genera		· · · · · · · · · · · · · · · · · · ·	

...

## STATEMENTS BY APPLICANT AND ENGINEER

A.	Αp	plicant
	P	P

	The undersigned owner or authorized representative of * Florida Power Corporation						
	is fully aware that the statements made in this application for a <u>renewal 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.						
$0 \leq 1$							
Signature of the Owner or Authorized							
	W. P. Stewart, Director, Power Production						
	Name and Title (Please Type)						
	Date:						
	* 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 designed/examined by me and found to be in conformity with modern engineering principles applicable to the control and discharge of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution source(s) with appropriate control facilities, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and the rules and regulations of the Department. It is also agreed that the undersigned will furnish the applicant a set of instructions for the proper maintenance and operation of the installation covered in this application.						
	Signature W. R. Stewart Mailing Address: P. O. Box 14042 C-4 St. Petersburg, FL 33733						
	Name:W. P. Stewart						
	Name: W. P. Stewart Telephone No.: (813) 866-4159						
	• • • • • • • • • • • • • • • • • • • •						
Flo	orida Registration Number 12594 Date: June 23, 1975						
	(Please affix seal)						





## STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

TER P. BALLET ECUTIVE DIRECTOR

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

DAVID H. LEVI CHAIRMAN

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

Barton P-3

Dear Mr. Marshall,

Pursuant to your recent application, please find enclosed a permit (No.AO 52-2572 ) dated August 21, 1974 to constant operate the subject pollution source.

33880

This permit will expire on August 21, 1979, and will be subject to the conditions, requirements and restrictions checked or indicated otherwise in the attached sheet \*\*CONTENTED OF PERMIT Conditions".

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

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

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

Yours very truly,

J. H. Kerns, P.E. Regional Engineer

West Central Region

JHK/DF/pm Nickonovitz

# STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTRO

## OPERATION-PERM

Barton P-3

不無風風所 不好因用者就用因因此以為國際

阿巴西斯原國西西西河南西西西西

は、 おいま (動物な ) Maria 

3

FLORIDA POWER CORPORATION

AO 52-2572 PERMITINO.

> 3 STATUTES AND TO THE PROVISIONS OF SECTION 403.06% (16) OF CHAPTER 403 FLORIDA THIS PERMIT IS ISSUED TO:

Marshall - Production Superintendent

FOR THE OPERATION OF THE FOLLOWING:

Bartow #3 Oil Fired, Gas Turbine Driven Electrical Unit Generating

LOCATED AT:

4

-3

ै

🕽 - Weedon Island, Pinellas Co 🎨

342.180E\_\_3082.870N\_\_\_

IN ACCORDANCE WITH THE APPLICATION DATED

المحالية المحالية

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

200

-51.000

J. H. KERNS, P.E. WEST CENTRAL REGION

FORM 1-1

001107

#### OPERATION PERMIT CONDITIONS

#### FOR AIR POLLUTION SOURCES

Permit No.: AO 52-2572 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 Fluorides		( )	Sulfur Oxides 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 annually in accordance with method Xvisible 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.



## STATE OF FLORIDA DEPARTMENT OF POLLUTION CONTROL

# APPLICATION TO OPERATE/CKMXXKRXXXX POLLUTION SOURCES

## SECTION I – GENERAL INFORMATION FOR ALL POLLUTION SOURCES

	I TO BE FILLED	IN BY APPLICANT	
Source Type: Air Pollution: Type application: [x] Opera Status Source: [] New			Construction Modification
Source Name: Florida Por	wer Corporation (	Bartow) P-3	County: Pinellas
Source Location: Street: Weedo (Water Source Only) (Air Source Only) UTM:	n Island East 342180 mE	" Long: North	St. Petersburg  8082870 mN
Appl. Name and Title: G. W. Appl. Address: P. O. II TO B	Marshall, Product Box 14042, St. Pe E FILLED IN BY REGION	tersburg, FL 3	33733
Control No: Region	County	Type	*Project
Type Permit Date Rec	'd *Permit No.	*Issue Date	*Compl. Date *Exp. Date
Source Description:Control Equipment:			
	Water	Permits	
Receiving Body Code: Station No.: Influent:		Surface Water C	Code:
Flow rate, MGD BOD, lbs/day Susp. Sol., lbs/day Other:	Average	Design	% Reduction
Operating Time: [ ] Contin		ermits	ttent
Fuel: Type Processed crud	e or distillate oi	] M-BTU/hr. In Put_	660 x 10 <sup>6</sup> BTU/HR
Pollutant Emissions, lbs/day 12 Hr./Dayarticulate (Crude) Sulfur Oxides Other:	Actual 547.2 lbs/Day 3774 lbs/Day	Design 435.6 1bs/Day 8712 1bs/Day	Allowable N/A N/A
Implementation: Estimated Appl. I Estimated Start of Const.	=	_ Estimated Comp	pliance Date

## DESCRIPTION OF PROPOSED PROJECT

	N/A
_	IV/A
_	
_	
_	
_	
_	
Sc	hedule 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
po	sts of Construction (Show a breakdown of costs for individual components/units of the proposed project serving llution control purpose only). Information on actual costs shall be furnished with the application for operation permit
_	N/A
_	
_	
_	
_	
_	
_	<del></del>
_	
_	
Ind	icate any previous DPC permits, issuance dates, and expiration dates.
	<del></del>
_	Construction Permit AC-369 Issued 6-24-71

#### AIR POLLUTION SOURCES & CONTROL DEVICES

Α.	1)	ication of A    X   Particu   Dus	lates		. (	c) [χ ] Smoke	d) [ ] <b>O</b> tl	her .(Ide	ntify)
٠		[x] Sulfur ( ) [x] SO <sub>x</sub>			Reduc	ed Sulfur as H <sub>2</sub> S	c) [ ] Otl	ner (Idei	ntify)
		X] Nitroge (X) NO,		nds b) [ ]	NH <sub>3</sub>		c) [ ] Oth	ner (Idei	ntify)
	4) [	] Flourid	les		5) [	] Acid Mist	6)	[](	Odor
	7)	] Hydrod	arbons		8) [	] Volatile Orga	nic Compounds		
	9) [	Other (	Specify):	·		•			
В.	Raw M	aterials and	Chemicals	Used (Be Spec	ific)		·		
	Descrip	otion		Utilizatio Tons/day lbs./day, e	у,	Approx Contan Cont	ninant		Relate to ow Diagram
						Type	% <b>W</b> t.		
	Fuel			36,300 1	b/Hr.	Ash	45.6/1b./hr.	(2)	
	Air			1,765,00	0 1b/	Sulfur hr.	312 lb./hr.	(2) (1)	
С. D.	1) T 2) P 3) N	roduct Weig	tht rating Time		lb.,		Sec. 17-2.04(2)] if seasonal describe	2:	
Ńan	ne of Co	ntaminant		tual harge		Discharge Criteria*	Allowable Discharge*		Relate Location to Flow Diagram
Par	rticul	ates	547	1b/day		N/A	N/A		(3)
SO <sub>2</sub>	<u> </u>		3744	lb/day		N/A	N/A		(3)
NO,	<u> </u>		5472	1b/day		N/A	N/A		(3)
CO				1b/day		N/A	N/A		(3)
HC	*			<b>7b/day</b> 2 Florida Adm rocess <b>W</b> eight		N/A ive Code /tonP <sub>2</sub> O <sub>5</sub> , #/M	N/A BTU/hr etc.)		(3)

None	l l		tions of Operation, le Size Range, etc.		Relate to Flow Diag	
•			•		-	
Fuels:	(12 Hrs.,	/Day)				
Type (Be specific)	Daily Co	onsumption	Heat		Relate to Flow	
Libyan Crude (0.43%S)	435,600	lbs/Day	BTU 657,03 x	/hr. 106 B/Hr	Diagram (2)	
Distillate Oil (0.18%S)	11	<b>(1</b>	"	11	(2)	
			٠.,	-		
Describe briefly, without revealing identified in this application:  This generating unit.		_			electrical	
		_				
Indicate liquid or solid wastes generate No liquid or solid was gas turbines			during	the opera	tion of these	
No liquid or solid was			during	the opera	tion of these	
			during	the opera	tion of these	

#### STATEMENTS BY APPLICANT AND ENGINEER

#### A. Applicant

	The undersigned owner or authorized representative of *													
	is fully aware that the statements made in this application for a	a <u>Operating</u> permit are												
	true, correct and complete to the best of his knowledge an	d 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 the permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sallegal transfer of the permitted establishment.  Signature of the Owner or Authorized Representations.														
								Signature of the Owner or Authorized Repre						
									G. W. Marshall,	Production Superintendent				
		Name and Title (Please Type)												
	Date:4-8-74	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 found to be in conformity with modern engineering princip characterized in the permit application. There is reasonable a source(s) with appropriate control facilities, when properly statutes of the State of Florida and the rules and regulations will furnish the applicant a set of instructions for the proper this application.	oles applicable to the control and discharge of pollutants assurance, in my professional judgment, that the pollution maintained and operated, will comply with all applicable of the Department. It is also agreed that the undersigned												
	Signature La Marshall	Mailing Address: Florida Power Corporation												
		P. 0. Box 44042 C-4												
	Name: G. W. Marshall	St. Petersburg, FL 33733 Telephone No.: (813) 866-4420												
	(please type)	Telephone No.:												
Flo	orida Registration Number 6008	Date: August 8, 1974												
	(Please affix seal)													



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

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

#### **BEST AVAILABLE COPY**

#### ENGINEERING REPORT

P. L. BARTOW GAS TURBINE UNITS

P1, P2, P3, P4

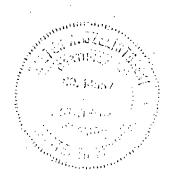
This report is to certify that the subject gas turbine generator units were constructed and installed in accordance to the engineering design drawings that were prepared or approved by Florida Power Corporation.

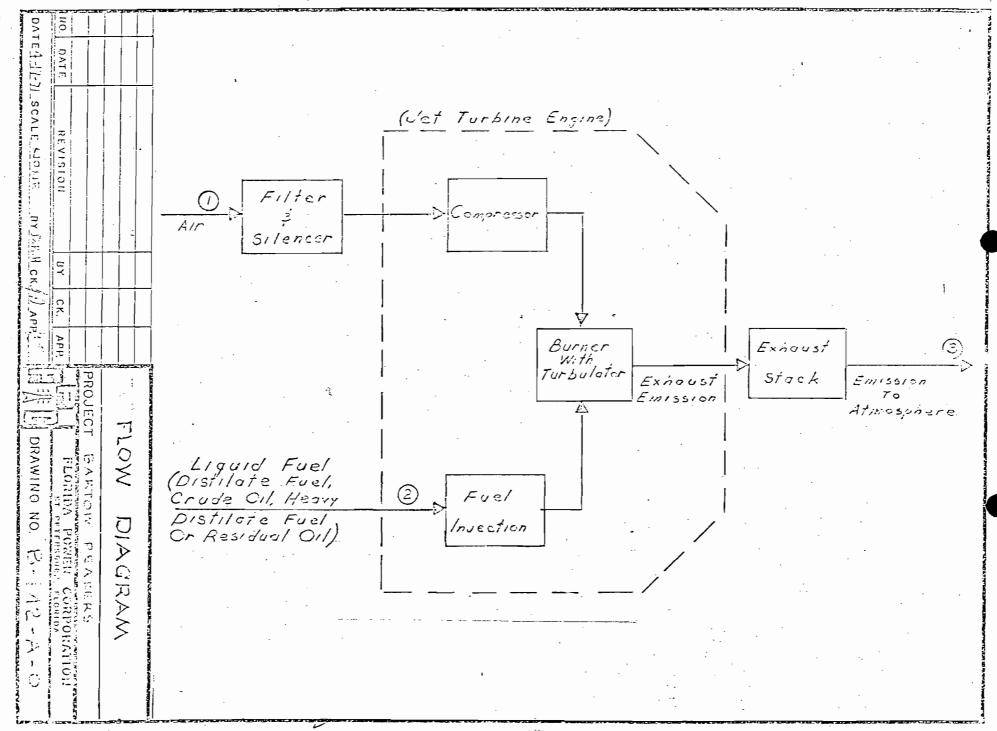
The power plant is presently in operation and has been accepted by Florida Power Corporation as meeting the manufacturer's performance quarantees.

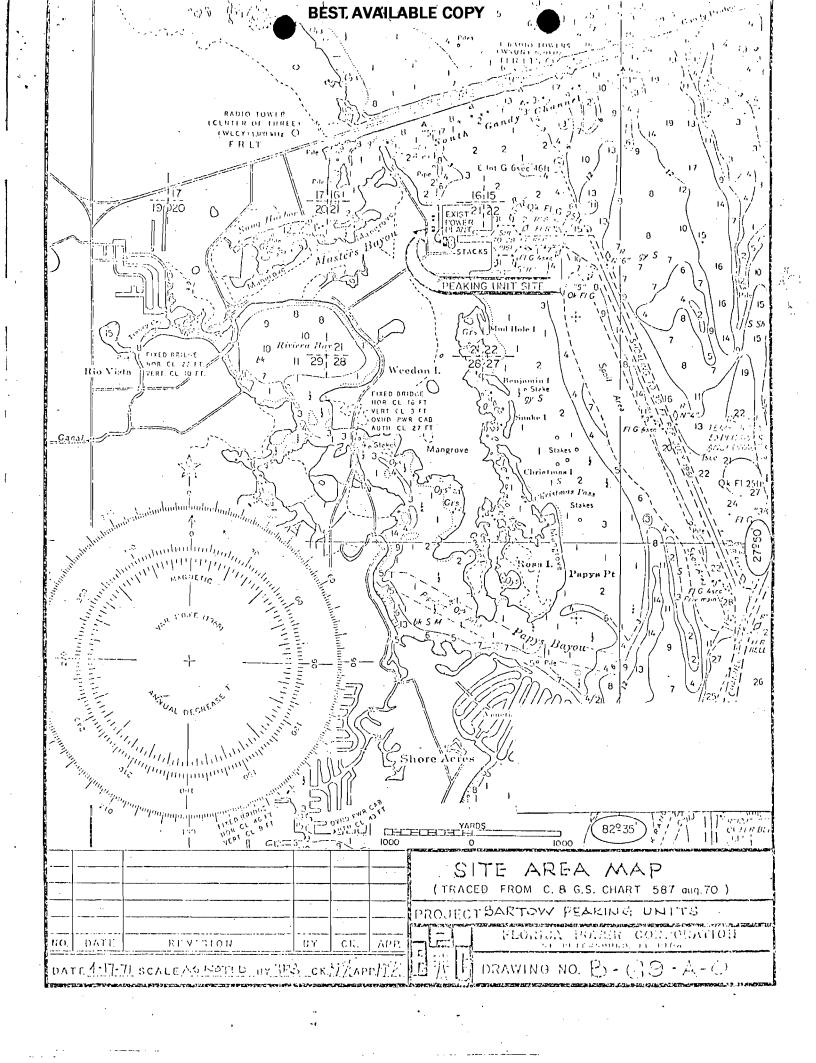
Up-to-date drawings on the facility are kept on file in the Production

Department engineering drawing vault and at the power plant.

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

# STATE OF FLORIDA 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.

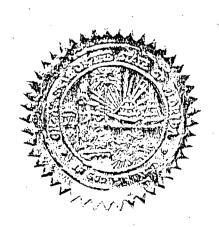
I do hereby further certify that (i) no Amendments to the Composite Certificate of Reincorporation (other than as mentioned above) have been filed by the Company; (ii) the Company has complied with the requirements of Chapter 28170, Laws of Florida, Acts of 1953, as amended, and has paid in full its 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 )X



#### MEMORANDUM

TO:

Jerry Kissel, P.E.

ar

DATE: 01/10/97

District Air Engineer

FROM:

David Zell, Permit Engineer

SUBJECT:

Company:

Florida Power Corporation, Bartow Plant

Permit Nos: Amendm

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)

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.

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



#### BEST AVAILABLE COPY

Table BA-EU1-H8b. Maximumu Interior Criteria Pollutants for Bartow, Simple Cycle-GE MS7000 Cattir Cas Peak 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 manufacturer				
Basis (including H2SO4), Ib/hr	5.0	5.0	5.0	5.0
lb/hr TPY- 1 Unit	5.0 21.9	5.0 21.9	5.0 21.9	5.0 21.9
Sevons.	87.6	87.6	87.6	87.6
Sulfur Dioxide (lb/hr)= Natural gas (cf/hr) x sulfur content(ga	r/100 cf) x 1 lb/7	000 gr x (lb SO2/	b 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
lb/hr	2.04	2.04	2.04	2.04
TPY- 1 Unit	8.94	8.94	8.94	8.94
an finds	35.7	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) lb/hr	928 - 265	928 265	928 265	928 265
TPY- 1 Unit	1,160.7	1,160.7	1,160,7	1,160.7
September 1	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 TPY <u>- 1 Unit</u>	18.0 78.8	18.0 78.8	18.0 78.8	18.0 78.8
£4.0nits	315.4	315.4	315.4	315.4
VOCs (lb/hr)= VOC(ppm) x [1 - Moisture(%)/100] x 2116.8 16 (mole. wgt as methane) x 60 min/hr + [15			000,000 (adj. for	ppm)]
Basis, ppmvw (1)	2.0	2.0	2.0	2.0
Moisture (%)	12.00	12.00	12.00	12.00
Volume Flow (acfm)	1,070,692	1,070,692	1,070,692	1,070,692
Temperature (°F)	928	928	928	928
ib/hr TPY- 1 Unit	1.8 7.8	1.8 7.8	1.8 7.8	1.8 7.8
Aution?	31.3	31.3	31.3	31.3
Sulfuric Acid Mist (lb/hr) = Fuel consumption (lb/hr) x sulfur	content (%) x (0	Conversion (fracti	on) of S to H2SC	04) x lb 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)	0.00294 3.1	0.00294 3.1	0.00294 3.1	0.00294
lb H2SO4/lb S (98/32) 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	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 0.0486	12 0.0486	12 0.0486	12 0.0486
Fuel density (lb/scf)	0.0460	0,0466	0.0400	0.0486

J 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 AO52-253215A, AO52-253216A, AO52-253217A, and AO52-253218A are hereby amended as follows:

#### 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.

#### 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.

#### <u>To:</u>

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 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

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 \_

Date



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-finng 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 Southwest 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 AO52-253215, AO52-253216, AO52-253217 and AO52-253218, 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.

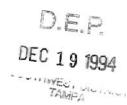
#### Recommendation:

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



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

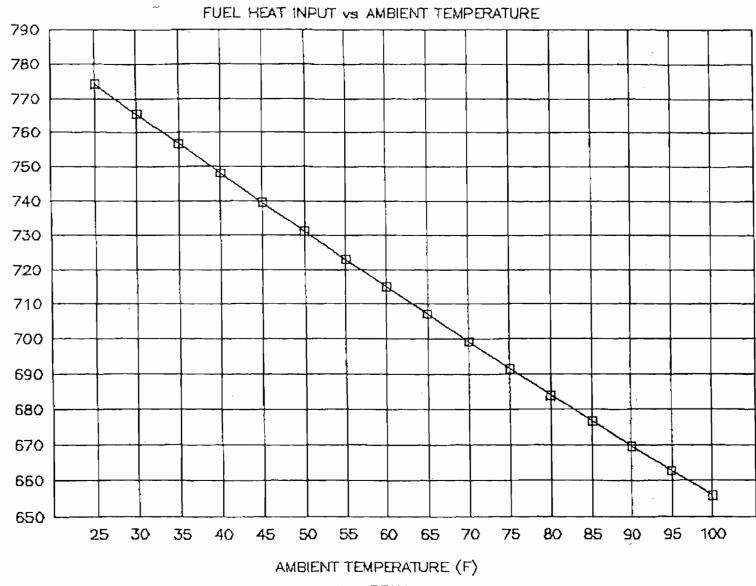
Senior Environmental Engineer

Attachments

cc: Gary Robbins, Pinellas County

# ATTACHMENT 1

# BARTOW COMBUSTION TURBINE



HEAT INPUT (MBTU/HOUR)

D PEAK

τ.

## ATTACHMENT 2



# Department of Environmental Protection

Lewton Chiles

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 rating for the turbines in 32 barrels per hour of 774 MMBtu per hour, The maximum (peak) heat input rate of the 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

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	0.048PM 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)

# 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: 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 rating for the turbines is 132 barrels per hour of 774 MMBtu per hour for the turbines is 132 barrels per hour of 774 MMBtu per hour for the maximum (peak) heat input rate of the 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 of a daily in a content of Assural Researces"

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)

PM10

Carbon Monoxide

Sulfur Dioxide

Nitrogen Oxides

Hydrocarbons (TOC)

0.041

0.048

0.048

0.048

0.048

0.048

0.048

0.048

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

/\_\_\_\_\_

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 AGD. 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 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 have been renewed to operating permits A052-253215, A052-253216, A052-253217 and A052-253218, 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

		APPLICATION TRA	ACKING SYSTEM	WOA 52 1334	11/02/9
	PPL NO:253217 APPL RECVD:06/21/94 DER OFFICE RECVD:TE DER PROCESSOR:TAYLO	IR .			
	APPL STATUS: AC DATE  (Y/N) N MANUAL TRACE (Y/N) N OGC HEARING (Y/N) N PUBLIC NOT: (Y/N) N GOV BODY LO (Y/N) Y LETTER OF:	RELIEF: (SSAC/E	YEMPTIONS/VARTA	ANCE	
	PROJECT SOURCE NAME STREET STATE APPLICATION NAME STREET STATE	SBARTOW PEAK UNIT SWEEDON ISLAND SFL ZIP: SFLORIDA POWER CO SP 0 BOX 14042 SFL ZIP:3373 SKBN ENG & APPLIE S1034 NW 57TH STR	#3 (A852-1671) PHONE:_ PHONE:_ B PHONE:_ D SCIENCES, INC. EET PHONE:90	75) CITY:ST. PETE  CITY:ST. PETE  CITY:ST. PETE  CITY:GAINESVILLE 04-331-9000	
	DATE APPLICANT INFO DATE BER SENT DNR DATE BER REG. COMM DATE #1 ABDITIONAL DATE #2 ABDITIONAL DATE #3 ABDITIONAL DATE #4 ABDITIONAL DATE #5 ABDITIONAL DATE #6 ABDITIONAL DATE LAST 45 BAY L DATE FIELD REPORT DATE BNR REVIEW WA	ENTS FROM GOV. BU INFO REQREC FR ETTER WAS SENT WAS REQREC S COMPLETED	IBY FOR LOCAL AFTER APPLICANT - IBM APPLICANT - IBM APPLICANT - IBM APPLICANT - IBM APPLICANT -	77 07/21/94- 07/21/94- 	-09/01/94 //_ //_ //_ //_ //_
T	DATE APPLICATION WE DATE GOVERNING BOY DATE NOTICE OF INTERPORT OF PUBLIC NOTICE DATE PROOF OF PUBLICATION WAIVER DATE BEGIN-	AS COMPLETE		09/0//94	

COMMENTS:

## PERMIT APPLICATION FEE/ASSIGNMENT SHEET

APPLICATION TYPE: AO 1A F	TILE PROCESSING NO: AUSD -2532
COMPANY: FLA PULIER C	COUNTY: 52 PINELLAS
· ·	(Code/name)
DESCRIPTION/COMMENTS: BARTOW	PEAKING UNIT
RENEW 1052-16	
(amend/extend/transfer/etc.) and p	ermit no., when applicable
DATE REC'D (Day 1): $6/2/94$	
CHECK ATTACHED: Y Not Requi	red (V) (TITLE I, NOT NSPS)
FEE SUBMITTED: ( ) correct (	) incorrect - Should Be \$ Submitted \$ Needed/Refund \$
FEE CHECKED BY: DAT APPLICATION ASSIGNED TO: TAY	E: 6/24-
APPLICATION ASSIGNED TO: TAY	10R DATE: 7-6-94
PERMIT APPLICATION I	PROCESSING STATUS
	Completed Initials
	$(\overline{C}, \overline{\omega})$
Date PATS Updated With Processor N	Tame: $1-6-99$
Permit Engineer Submit Finished Permit Package & Recommendations t District Air Engineer:	° 11-9-94 (JA)
Permit Package to District Air Administrator:	11/17/94 gh
Permit Package to Director of District Management:	11/17/94 /16
Permit Package Mailed Out:	NÓV 23 1994 - MA
<u> </u>	·
DATA FOLI	LOW UP
Issue Date Updated on PATS:	NOV 23 1994
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

cc:

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.:

A052-167172, A052-167173, A052-167174,

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).

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 <u>August 30, 1994</u>	
Telephone No. <u>(904) 331-9000</u>	

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

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

DER Form &	
form Title	
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. A0-52-167175
Company Name: Florida Power Corporation	County: Pinellas
Identify the specific emission point source(s) Kiln No. 4 with Venturi Scrubber; Peaking Unit	addressed in this application (i.e., Lime No. 2, Gas Fired):
Bartow Peaking Unit #3	
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.
<ol> <li>No fee required.</li> <li>Have there been any alterations to the plant of minor alterations have occurred, described.</li> <li>Attach the last compliance test report required previously. Compliance test performed on the separate sheet and attach.</li> </ol>	be on a separate sheet and attach.
<ul><li>5. Has there been any malfunction of the pollurent permit? [] Yes [] No If yes, and what action was taken on a separate shot.</li><li>6. Has the pollution control equipment been</li></ul>	d not previously reported, give brief details eet and attach. $N/A$ maintained to preserve the collection effi-
ciency last permitted by the Department?  7. Mas the annual operating report for the last last last last last last last last	

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

Page 1 of 2

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

Contam	Contaminant		Utilization	
Туре	%W t	Rate	lbs/hr	
1				
	I		I ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	

В.	Product Weight	(lbs/hr):	

C. Fuels

Туре	Consu	nption*	Maximum Heat	
(Be Specific)	Avg/hr*	Max/hr**	Input (MMBTU/hr)	
No. 2 Fuel Oil	121	121	√~.714 <sup>1</sup>	

D.	Normal Equipment Operating Time: hrs/day $24$ ; days/wk $7$ ; wks/yr $52$ ;
	hrs/yr (power plants only) 8,760; if seasonal, describe

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

*During	actual	time	οf
operat	ion.		

DER Form 17-1.202(4) Effective November 30

OFFICIAL NOTAKI SEAL	
MARYJANE R BLAIN	$\alpha$
NOMEDIA TO STATE OF STATE	A CITCH

NOTARY PUBLIC STATE OF FLORIDA COMMISSION NO. CC373234 MY COMMISSION EXP. JUNE 3,1998

Marsher 5
Signature, Owner or Authorized Representative
(Notarization is man ca to by) 如 为 生 1
W. Jeffrey Pardue, C.E.P., Madager - Frydroumental
P. O. Box 14042, MAC H2G
St. Petersburg, FL 33733

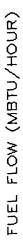
City State Zip 20 June 1994 (813) 866-4387 Telephone No.

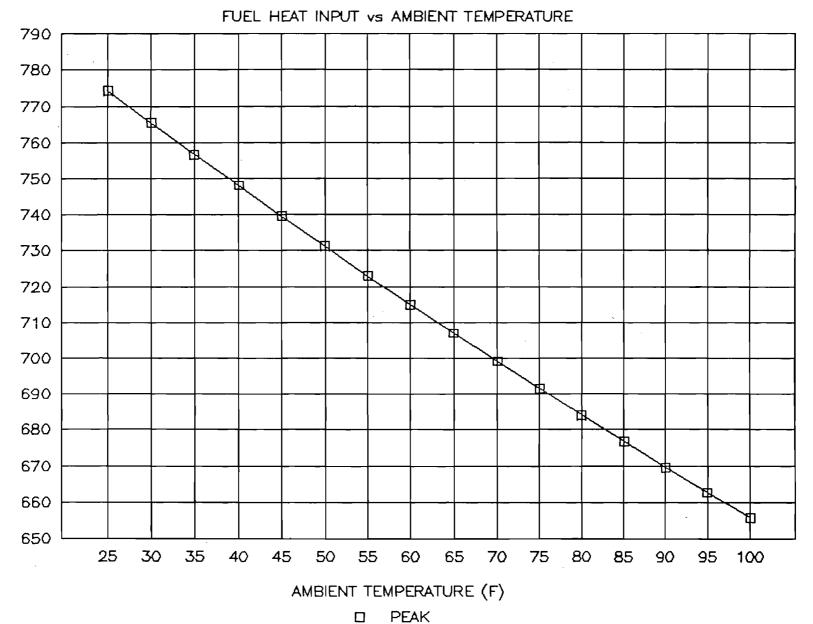
Page 2 of 2

<sup>\*\*</sup>Units: Natural Gas-MMCF/hr; Fuel Dils-barrels/hr; Coallbs/hr.

<sup>\*\*\*</sup>Attach letter of authorization if not previously submitted

<sup>&</sup>lt;sup>1</sup>Based on 59°F reference temperature







## BOARD OF COUNTY COMMISSIONERS PINELLAS COUNTY, FLORIDA

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

COMMISSIONERS

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

JUL 25 1994

D E P

SOUTHWEST DISTRICT TAMPA:

July 21, 1994

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

Florida Power, Bartow Peaker No. 3, Permit No. A052-2532218 RE:

Taylor: Mr.

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 2 . fuel oil. 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' permits. 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 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

AOC\FLPOW218.PER

#### PERMITTEE:

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

#### PERMIT/CERTIFICATION

2ハ

Permit No: A052-2532218

County: Pinellas

Expiration Date: August 21, 1994 Project: Bartow Peaking Unit No. 3

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

For the operation of an oil fired, gas turbine driven electrical generating unit, designated as Bartow Peaking Unit No. 3. The peaking unit is composed of a General Electric Company, Serial No. 335X117 electric generator, driven by a General Electric Company, Model MS 7000, Serial No. 217710 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: 06

Replaces Permit No.: A052-167175

PERMITTEE: Florida Power Corporation

Permit No.: AO52-2532-218
Project: Bartow Peaking
Unit No. 3

#### SPECIFIC CONDITIONS:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Visible emissions from Bartow Peaking Unit No. 3 shall not be equal to or greater than 20% opacity. [Rule 17-296.310(2)(a), F.A.C.]
- Test Bartow Peaking Unit No. 3 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. 3. 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.).

217

PERMITTEE: Florida Power Corporation

Permit No.: A052-2532<del>21</del>8 Project: Bartow Peaking

Unit No. 3

7. Bartow Peaking Unit No. 3 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:

	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.]

PERMITTEE: Florida Power Corporation

Permit No.: A052-2532<del>218</del> Project: Bartow Peaking

Unit No. 3

12. Until further notice by the Pinellas County Department of Environmental Management, Air Quality Division, Florida Power Corporation shall calculate annual emissions, for the Annual Operating Report, by multiplying the fuel use by the following 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 Florida Power - Bartow Peaking Unit No. 3

Permit: AO52-253218

# **Electric Utility Turbines**

Fuel Usage

	<u> </u>	
	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



# 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

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)

July 21, 1994

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

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,

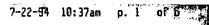
John J. Taylor P.E.

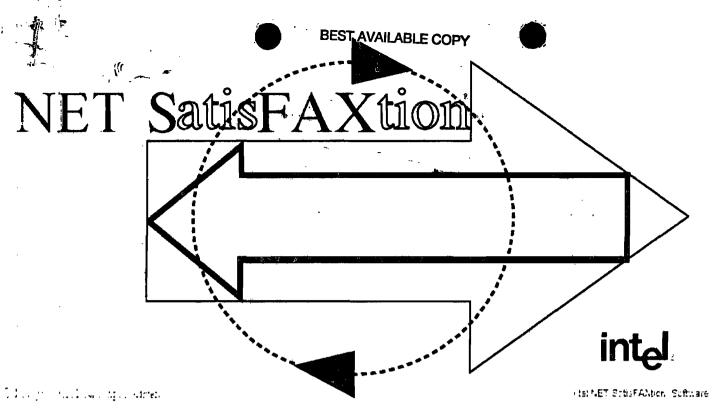
Air Permit Engineer

Enclosures

copy: Mr. Gary Robbins - PCDEM

fpc94xxx.il1





Film dery Probles

To: John Taylor

From: Gary Robbins

Date: 7-22-94

Page 1 of 6

florida Power, Bartow Feaker No. 3

## BEST AVAILABLE COPY

PERMITTEE:

ar <sub>B</sub>on Taylor

Florida Power Corporation a.

Permit No.: AO52-2532217

Project: Bartow Peaking

Unit No. 3

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

Fage 4 of 4

## 8 Tg: John Backer

#### **BEST AVAILABLE COPY**

PERMITTEE: Florida Power Corporation to the state of the

Permit No.: A052-2532217
Project: Bartow Peaking

Unit No. 3

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

#### A. <u>Process Farameters:</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 cil having a maximum sulfur content not to exceed 0.5% by weight
- 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 Fintial 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. Dedoris must be kept for a minimum of two years and be made available for inspection upon request.
- 5. Submit to the Air Section of the Department's Southwest District Office and the Finellas 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 17-211.370(2)(a)1., F.A.C.]
- 13. 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:

	pounds/hour	tons/year
Farticulate	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
my are charmens	-2,11	33.21,

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.]

Fage 3 of 4

#### **BEST AVAILABLE COPY**

PERMITTEE: Florida Fower Corporation & F

Permit No.: Project:

A052-2532217 Bartow Peaking

Unit No. 3

#### SPECIFIC CONDITIONS:

o: u≨far læyiu:

- 1. A part of this permit is the attached 15 General Conditions.
- 2. Visible emissions from Bartow Peaking Unit No. 3 shall not be equal to an greater than 20% opacity. [Rule 17-296.310(2)(a), F.A.C.]
- 3. Test Bartow Feaking Unit No. 3 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 Ased 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 Fower Comporation 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 Repaitment 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.
- 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. 3. 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.]
- F. 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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## **BEST AVAILABLE COPY**

### FERMITTEE:

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

#### PERMIT/CERTIFICATION

Permit No: AO52-2532217 County: Pinellas

Expiration Date: August 21, 1994 Project: Bartow Peaking Unit No. 3

This permit amendment is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 2x7 & 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. 3. The peaking unit is composed of a General Electric Company, Serial No. 335X117 electric generator, driven by a General Electric Company, Model MS 7000, Serial No. 217710 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 typacity 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.

Lata ion: Weedon Island, St. Petersburg, Pinellas County

UTM. 17-336.5 E 3098.3 N NEDS NO: 0011 Point ID: 06

Meglarea Permit No.: A052-2177173

#### **BEST AVAILABLE COPY**

1.44

July 21, 1994

Mr. John Taylor Department of Environmental Protection 3864 Coccnut Palm Drive Tampa, Florida 33619-8318

**\$** 

FM: Florida Power, Bartow Peaker No. 3, Permit No. AC52-2532217

Mr. Itylor:

to: John layest

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.

Care this issue is resolved and DEP determines a permit should be issuely the following recommendations are suggested:

- 2. The convert permit does not restrict the sulfur content of the fuel oil. 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' parmits. Without a SO2 limit, the calculation of fees is difficult.
- 3. 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

CO: RF, PF AQC\FLFOW217.FER



BEST AVAILABLE COPY

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

o 0 13 Bayboro Peakers P1-P4 (FDEP Permit Nos. A052-167163, -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.

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.

J. Harry Kerns, P.E. THRU:

George W. Richardson FROM:

January 24, 1990 DATE:

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 Enviromental 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.D.

NOV 15 1989

Florida Power SOUTHWIST FROM NOT TAKEN A

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

ce tarnelle

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.

OCT 2 7 1989

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<sub>10</sub> 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

### **MEMORANDUM**

TO: File

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

THRU: J. Harry Kerns, P.E.

FROM: George W. Richardson

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. 4052-167/75

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	PERMIT NOA	052-167175
DATE RECEIVED: $\frac{7/6/89}{}$	P.E. SEAL & S	
O DAy 15 10/2		· 
	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	7/14/89	
LOGGING BY SEC'Y	7/20/89	MO
Permitting Eng'r submit finished permit package & recommendations to supervisor.	9/15/19	Com
Permit Package to Dist. Engr.	9/17/89	K
Permit Package to Dist. Mgr.	9/27/89	7/5
Permit Package Mailed out:	SEP 2 8 1989	Sho
		·
DATA FOLLO	W-UP	
Issue Date Updated on PATS: Updated on WANG:	SEP 2 8 1989 SEP 2 8 1989	MQ MO



# 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. AO52-167175; Bartow

Peaking Unit No. 3; Replaces Permit No. AO52-89903

Mr. Richardson:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCES for the above mentioned source. application is deemed complete except for a current compliance Pinellas County performed a simultaneous compliance test with the facility's consultant on 8/3/89. The test showed the operating in compliance with the visible source was The facility has promised to submit the visible limitation. emissions test within two weeks. Pinellas County recommends that an operation permit be issued once a current compliance test is demonstrating compliance. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer

Air Quality Division

GR/0955E

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

PERMIT/CERTIFICATION A052-167175

County: Pinellas

Expiration date: Aug. 31, 1994

Project: Peaking Unit No. 3

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-2 & 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the 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 operation of fired, gas turbine driven electrical а generating unit. This unit is designated as Peaking Unit No. 3. Peaking Unit is composed of an General Electric No. 320066, Model No. MS 7000, Serial No. 247710 electric generator driven by two ??????? Model No xxxxxxx gas turbines. The turbines are designated as 3A (Engine Serial No. xxxxxxx, Turbine Scrial No. xxxxxxx) and 38 (Engine Serial No. xxxxxxx, Turbine Serial No. xxxxxxxx The Peaking Unit is fired on No. 2 Fuel Oil at a maximum rate of 121 barrels/hour or Btu/hr. The unit is rated at maximum generating capacity of 55.7 MW. The unit can be operated with one or both turbines in operation.

SIN, SLEC MOBEL MS 2000 SEN. NO. 2177 CAS TURRINE

Located at Weeden Island, St. Petersburg

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

Replaces Permit No.: A052-89903

DER Form 17-1.201(5)Page: PERMITTEE:
Florida Power Corporat

Permit/Certification No: AO52-167175 Project: Peaking Unit No. 3

### 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.).
- The Peaking Unit shall be fired on No. 2 fuel oil.
- 4. Test the peaking unit for visible emissions 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

Permit/Certification No: AO52-167175
Project: betow Peaking Unit No. 3

TO SUPPLY THE THE STATE OF THE

#### 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].
- 11. 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 3, 1989 this source is permitted to operate at 45 MW/hour at 94 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<sub>1O</sub>, carbon monoxide, SO<sub>2</sub>, 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 ENUIRONMENTAL REGULATION

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

PHIL STEADHAM
10 30
428-1423

07/12/89

ALLES TO THE COLUMN TO THE COL	
PPL NO:167175	
APPL RECVD: 07/06/89 TYPE CODE: AO SUBCODE: 0	O LAST UPDATE: 07/10/89
APPL RECVD: 07/06/89 TYPE CODE: AO SUBCODE: O DER OFFICE RECVD: TPA DER OFFICE TRANSFER TO:	APPLICATION COMPLETE: 00/00/00
DER PROCESSOR: THEMAS Richardon Im	
APPL STATUS: AC DATE: 07/06/89 (ACTIVE/DENIED/	WITHDRAWN/EXEMPT/ISSUED/DENERAL)
DEL YEEL COCKETENDITION	CAMADIANCE)
(Y/N) N MANUAL TRACKING	DISTRICT: 40 COUNTY: 52 LAT/LONG: 27.51.35/82.36.09
(Y/N) DNR REVIEW REGD?	LAT/LONG: 27.51.35/82.36.09
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(Y/N) N GOV BODY LOCAL APPROVAL REQD?	COE #:
(Y/N) Y LETTER OF INTENT REQU? _ (I/ISSUE D/	DENY) ALT#:
PROJECT SOURCE NAME: BARTOW PEAKING UNIT #3	
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STATE: FL ZIP: P	HONE
APPLICATION NAME: FLORIDA POWER CORP.	원생님이 있다면 모든 하는 것이 없었다. 네가는 그렇지 때
STREET:P 0 BOX 14042 STATE:FL ZIP:33733 P	CITY:SI: PETE
STATE:FL ZIP:55755 P	HONE:
AGENI NAME:	
AGENT NAME:  STREET:  STATE:  PEE #1 DATE PAID: / / AMOUNT PAID:NOFE	CITY:
STATE: ZIP: P	HONE:
FEE #1 DATE PAID: / / AMOUNT PAID:NOFE	E RECEIPT NUMBER:
DATE APPLICANT INFORMED OF NEED FOR PUBLIC	NOTICE = / /
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DATE DEP DEG COMMENTS FROM GOV. BORY ECR I	OCAL APP - / /
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DATE #6 ADDITIONAL INFO REQREC FROM APPLI	
DATE GOVERNING BODY REQUESTED SURVEY RESULT	S/REPORTS / /
DATE FIELD REPORT WAS REQREC	
DATE DAR REVIEW WAS COMPLETED	
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DATE APPLICATION WAS COMPLETE	216HG
DATE GOVERNING BODY PROVIDED COMMENTS OR OB	: [HELT - LETTE - HELT - HE
DATE NOTICE OF INTENT WAS SENTREC TO APPL	JECTIONS/_/ ICANT/_//
DATE PUBLIC NOTICE WAS SENT TO APPLICANT -	
DATE PROOF OF PUBLICATION OF PUBLIC NOTICE	
WAIVER DATE BEGINFND (DAY 90)	

COMMENTS:

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ADDRESS weeks					CONI	Phil Walker	?s
	PERM	IT :	1903			RATION DATE 9/11/89	
SOURCE DESCRIPT	NOIT			# 3			
INSPECTION DAT	E	AUDIT T	YPE Major			COMPLIANCE S	
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INSPECTOR(S) NAME(S)	
E. Echrmann	
SIGNATURE(S) E. Flan	DATE 7/1/86

INSPECTION RE POLLUTANT EMI	PORT FORM SSION SOURCES			
PACILITY PAUL L. BARTOW PLANT FLORIDA POWER CORPORATION	DISTRICT COUNTY SOUTHWEST PINELLAS			
ADDRESS WEEDON ISLAND ST. PETERSBURG, FLORIDA.	CONTACT MR. DON TURNER PLANT OPERATIONS SUPERINTENDENT			
APIS 1 PERMIT 1 40TPA52001107 A052-89903	EXPIRATION DATE 9/11/89			
SOURCE DESCRIPTION  COMBUSTION TURBINE PEAKING UNIT NO. 3				
INSPECTION DATE AUDIT TYPE MASOR 2-MINIO		TATUS OMPLIAN CE		
INSPECTION COMMENTS/RECOMMENDATIONS				
A052-89903 - COMBUSTION TURBINE PEAKING UNIT FIRED BY OIL NO. 2  AT APPROXIMATE RATE OF				

65 GAL /MIN OUTPUT RATE WAS 47 MW. THE UNIT WAS TESTED FOR UISIBLE EMISSIONS. AVERAGE OPACITY DURING THE WORST SIX MIN OF OPERATION WAS 15%

TOTAL OPERATING HOURS DURING PREVIOUS
12 MONTHS TO END OF JULY 1985 WERE
51.6 HRS.

INSPECTOR(S) NAME(S)	MON 501	-15		
SIGNATURE(S) Camon	Qalis	DATE	8/14/85	

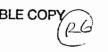
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866 - 5728	AOS	52-89903	4	15	15	15	/5	34				
PROCESS EQUIPMENT PEAKE GAS TURBINE	R#3	OPERATING MODE	5	15	15	15	15	35				
CONTROL EQUIPMENT NONE		OPERATING MODE	6	15	15	15	15	36				
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## ANNUAL OPERATIONS 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:		
	<ol> <li>Source Name: Florida Power Corp. (E</li> <li>Permit Number: A052-89903</li> <li>Source Address: Weedon Island, St. Pet</li> </ol>	National Action of the control of th	
	4. Description of Source: Gas Turbine	zersburg, FL 33702	
II.	OPERATING SCHEDULE: 24 hrs/day Operated 72.5 hours in RAW MATERIAL INPUT PROCESS WEIGHT:	7 day/wk <u>52</u>	wks/yr
	Raw Material N/A	Input Process Weight	tons/yr tons/yr tons/yr tons/yr tons/yr tons/yr
IV.	Product Output (tons/yr - cubic feet/yr)  TOTAL FUEL USAGE, including standby fuels. content (e.g., No. 6 oil with 1%S).  10 <sup>6</sup> Cu. Ft. Natural Gas 10 <sup>3</sup> gallons Propane tons Coal tons Carbonaceous	If fuel is oil, specify weight and s  223.94 10 <sup>3</sup> gallons No. 2 0  10 <sup>3</sup> gallons Kerosene 10 <sup>6</sup> lb Black Liquor S tons Refuse	oil, <u>0.18</u> %S
٧.	Other (Specify type and units)  EMISSION LEVEL (tons/yr):  A. 0.56 Particulates  7.592 Nitrogen Oxide  Hydrocarbon  2.822 Sulfur Dioxide  Other (Specify type and units)	Carbon Monoxide Total Reduced Sulfur Fluoride	
	B. Method of calculating emission rates (emission factors drawn from AP 42, etc.		ials balance,
VI.	CERTIFICATION:  I hereby certify that the information given knowledge.	Signature of Owner or Authorized Revolutions  J. A. Hancock Vice President, Fossil Operations	

DER Form PERM 12-15 (Jan78) Roy(EmRpt)D48 February 15, 1985







# BOARD OF COUNTY COMMISSIONERS

### PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 33516

September 10, 1984

SEP 1 9 1934

SCUTH - VEST DISTRICT TAMPA

COMMISSIONERS

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

> Mr. Richard Garrity, Ph.D. S.W. District Manager Department of Environmental Regulation 7601 Highway 301 North Tampa, Florida 33610

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)Dust (Unconfined emissions) Closed/Referred 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
  - 2. 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

• 33733

PLANT 0011 FL POWER CORP
WEEDON ISLAND
SAINT PETERSBURG
J A HANCOCK
P O BOX 14042
ST PETERSBURG
BARTOW PLANT

WEEDON ISLAND UTILITY FILE STATUS NEW ADD
POWER PLANT
FL. 33733
AQCR=052 SIC=4911
LAT=28:20:30N LON=82:18:17%

UTM ZONE 17 342.5KM E. 3083.6KM N.

POINT 07 CONST PATS# OPER PATS# E0998-550A ISS= / / EXP= / / ISS=10/05/84 EXP=09/11/89 GAS TURBINE PEAKING UNIT # P-3 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 O OTHER PRODUCT 0 OTHER FUEL 36306 LB/BRN X NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25% PERMIT SCHEDULE 24HRS/DAY: 7DAYS/WK 52WKS/YR AOR FOR 07/12/84 24HRS/DAY 7DAYS/WK 52WKS/YR DISTALLATE PEAKING UNIT

COMPLIANCE NEDS=1 QRC=2 UPDATE09/84 SCHED.07/79 UPDATED07/31/79 PERMIT=1 YOR=89 INSPECTED C8/01/84 NEXT DUE 08/13/85

1

SCC'S

2-01-001-01 YOR=84 SOURCE=C RATE= 1011 MAX= 5.032 KGL/BRN FUEL CONT SOZ= .18% ASH= 0.0% 141MBTU FYOR=84 CONFID=2

### POLLUTANTS MONITORED

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 past 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

# COMPANY NAME FLORIDA POWER CORPORATION

Processor

File Number <u>A052-89903</u>

			File Num	per//O	<u> 56-8770.</u>
	PERMIT APPLICA	TION STATUS	SHEET		3
	Type of permit applied for	SPERATI	ON		
	County PINGLEAS				
	Date Received 7-12-8	4	P.E. seal Check No check Letter of		
CLOCK DAYS		DATE TASK (	COMPLETED		INITIALS
3	Logging by Sec'Y	<u>7-17</u> 7-18	-84		Cure
5	Review by Sec. head and transfer to permitting Engineer	<i>7-18</i>	- 89		
28	Completeness Review	10-3-84			1m
	request additional info *				
	information received *				
	Public Notice Published * (for Air Construction only)				
55	Letter of Intent sent to * Supervisor				
60	Letter of Intent submitted * to District Manager				
75 -	<pre>Intent to issue/deny mailed*</pre>				
80	Permitting Eng'r submit finished permit package & recommendations to supervisor	c 10-3-8	4.	ad	<u> Im</u>
83	Permit Package to Dist. Engr.			' 0	fluit
85	Permit Package to Dist. Manager				

\*If needed, If not indicate by N/A

Final Issuance/denial

90

# STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 83379

# RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Flasida Pour	es longo.	Date 7-12-84	
Address P.D. Bix 14042,		Dollars \$	
Applicant Name & Address			
Source of Revenue Banton Pon		1#3	
Revenue Code			
		Shy Polham	
672134	By All Gra	OFFI I FOUNCIAM	

DER AIR PERMIT INVENTORY SYSTEM 40/52/0011/07 40/34/79 SOUTHWEST DISTRICT PINELLAS COUNTY

PAGE 4

A052-22554

PLANT 0011 FLORIDA POWER CORPORATION WEEDON ISLAND

> SAINT PETERSBURG W P STEWART

P O BOX 14042

ST PETERSBURG

UTILITY FILE STATUS SENT

POWER PLANT

ISS=40/23/79 EXP=09/44/84

FL. 33733

AUCR=052 SIC=4911

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

. 33733 UTM ZONE 47 342.4KM E. 3082.8KM N.

BARTOW

POINT 07 CONST PATS#

ISS= / / EXP= / /

GAS TURBINE PEAKING UNIT # P-3

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 OTHER FUEL 36306 LB/BRN

OPER PATS#

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

PERMIT SCHEDULE ØSHRS/DAY 7DAYS/WK 52WKS/YR

AOR FOR 07/34/79 05HRS/DAY 7DAYS/WK 52WKS/YR

DISTALLATE PEAKING UNIT

COMPLIANCE NEDS=4 QRC=2 UPDATE07/79 SCHED.07/79 UPDATED07/34/79

PERMIT=4 YOR=79 INSPECTED 02/04/79 NEXT DUE 02/04/80

SCC18

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

POLLUTANTS MONITORED

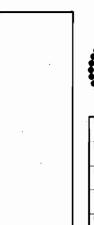
0.00 EST/METH= 9/1 MAX.ALW=9999999 TNS/YR. TSP 44404 NORM=

CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 07/34/80 TEST/FREQ=4

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/HETH= 152/1 MAX.ALW=9999999 TNS/YR. CTLS.PRI= 0 SEC= 0 EFF= 0.0% NEXT DUE 07/34/89 TEST/FREQ=4





# RECORD OF VISUAL DETERMINATION OF OPACITY

Location	Hours of Observation
コーじかくしいし アクカバス オーニン	1915-1951
Permit Number	Observer
AOS2-22554	T.L.Brustle
Date	Observer Certification Date
HUCUST 1, 1787	·
Type Facility	Point of Emissions
Combistion lumbire leaking Units	512.1
Control Device	Height of Discharge Point
NONE	<u> 40 </u>

	Initial .	Final
CLOCK TIME	1415	1451
OBSERVER LOCATION Distance to Discharge	~300	2 3/11/16
Direction from Discharge	55W	/
Height of Observation Point	Grand	. (
BACKGROUND DESCRIPTION	must dean	
WEATHER CONDITIONS Wind Direction	SSE-E	
Wind Speed	5-10	.)
Ambient Temperature	~90°F	
SKY CONDITIONS (Clear, overcast % clouds, etc.)	~ Myclands	
PLUME DESCRIPTION Color	Very light black	
Distance Visible		P.
Other Information		

SET	Ť	IME	OPACITY			
UMBER	START	END	SUM	AVERAGE		
T.	1415	1457	1670	/3.5		
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eading	s ranged from	to	<u>15</u> opac	ity.		

### 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 3

A052-22554

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,

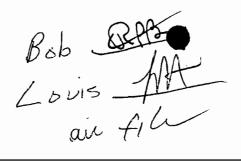
Dan A. Williams, P.E. District Engineer

Air, IW & HW Programs

JE/scm

cc: PCDEM





# Florida Power

April 20, 1983

Mr. W. K. Hennessey Florida Department of Environmental Regulation 7601 Highway 301 North Tampa, FL 33610

Dear Mr. Hennessey:

Enclosed are the quarterly reports on fuel use and sulfur content for the following units:

Anclote No. 1
Anclote No. 2
Bartow No. 1
Bartow No. 2
Bartow No. 2
Bartow No. 3
Crystal River No. 2
Higgins No. 1
Higgins No. 2
Higgins No. 3

Should there be any questions concerning these data, please contact me at (813) 866-4281.

APR 22 1983

OUTHWEST MISTRICE

Sincerely,

FLORIDA POWER CORPORATION

D. A. Shantz Supervisor

Environmental Services

Shantz (QtrRpt)D12

Enclosures

cc: F. E. Denby

D. I. Flynn

G. L. Macey

F. E. Martin

T. L. Brouette w/attach.

Readers w/attach.

File: ENVIRON 5-1/attach.

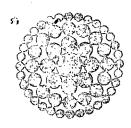
General Office 3201 Thirty-fourth Street South • P.O. Box 14042, St. Petersburg, Florida 33733 • 813-866-5151

# FUEL REPORT

	ANCLOTE 1	ANCLOTE 2	BARTOW 1	BARTOW 2	BARTOW 3	HIGGINS 1	HIGGINS 2	HIGGINS 3				
January 1983												
Fuel Oil (BBL) Gas (MCF) % Sulfur	253267 0 2 <b>.</b> 4	195326 0 2.4	12179 28916* 2.5	37344 0 2.5	25229 96155 2.5	5551 0 2.4	5240 0 2.4	3189 0 2.4				
February 1983												
Fuel Oil Gas % Sulfur	149531 0 2.2	143778 0 2.2	1219 50335* 2.3	34462 800 2.3	51781 254971 2.3	4828 0 2.3	3274 0 2.3	4228 0 2.3				
March 1983												
Fuel Oil Gas % Sulfur	275319 0 2.2	341675 0 2.2	1302 .54834* 2.3	53999 0 2.3	67927 350117 2.3	6398 0 2.4	4644 1212 2.4	5132 0 2.4				
		CRYSTA	AL RIVER 1		CRYSTAL RIVER 2							
January 1983												
Coal (Tons) % Sulfur		;	72067 1.3		115054 1.3							
February 1983												
Coal (Tons) % Sulfur		3	36653 1.3		109645 1.3							
March 1983												
Coal (Tons) % Sulfur		<u>c</u>	92935 1 <b>.</b> 1		18334 1.1							

\* Coal-oil mixture, barrels

Shantz(QtrRpt)D-12



Does lived

# Florida Power

April 6, 1983

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

Subject: Higgins Peakers - A052-58633, 58634, 58635, 58636

Bartow Peakers - A052-22551, 22553, <u>22554</u>, 22555 Bayboro Peakers - A052-22556, 22557, 22558, 22559

Dear Mr. Williams:

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

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

Sincerely,

D. A. Shantz, Supervisor Environmental Services

Shantz(W03)C4a-2

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

Readers

APR 13 1983

SOUTHW. CHSTRICT

BEST AVAILABLE COPY ROUTING AND TRAMSMUTAL SLIP ACTION DUE DATE I. TO: (NAME, OFFICE, LOCATION) INITIAL DATE MITIAL DAIF JAITIM DATE PHILLAL DATE INFORMATION REVIEW & RETURN Llease Clet us know your comments on the attached REVIEW & FILE INITIAL & FORWARD DISPOSITION REVIEW & RESPOND PREPARE RESPONSE FOR MY SIGNATURE FOR YOUR SHONATURE LET'S DISCUSS SET UP MEETING INVESTIGATE & REPT MITIAL & FORWARD DISTRIBUTE CONCURRENCE OR PROCESSING MITIAL & BITURN FROM: Tim Estler



# BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

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.
  - 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 requiremer:s. 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.

#### <u>General</u>

- 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.
- 2. 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,

Joyce M. Gibbs, Chief Division of Air Quality

PAH/jh Enclosures

DER

#### 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.

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### BOARD OF COUNTY COMMIS

COMMISSIONER !

PINELLAS COUNTY, FLORIDAS

315 COURT STREET

**CLEARWATER, FLORIDA 33516** 

COMMISSIONERS

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

OCT 14 1962
SOUTHWEST DISTRICT

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 September 1982 are summarized as follows:

#### Citizen Complaints

Seven complaints were received in September.

2 - Dusty Streets

2 - 0dor

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.

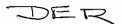
#### General

- 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 on 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.

HOURS	ΩF	OPERATION	AND FILE	USAGE.	RARTOW	PFAKERS
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	Uni	t No. 1	Unit	No. 2	Uni	t No. 3	Unit	No. 4
Year	Hours	Fuel*	Hours	Fue1*	Hours	Fuel*	Hours	Fue1*
1977 1979 1980 1981	494 1049 956 365	2015 4464 4064 1470	466 899 912 478	1881 3791 3792 1942	481 1019 1204 467	2062 4314 5045 1883	840 868 362 304	3436 3648 1539

<sup>\*</sup> 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
1979	163.0	125.0	136.0	142.0
1982	0.9	5.0	4.1	

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

MAR 18 1986.

SOUTHWEST DISTRICE TAMPA -

Dear Mr. Hennessey:

Tampa, Florida 33610

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.

#### 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,

aya mostos Joyce M. Gibbs, Chief

Division of Air and Water Quality

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:

```
Bartow Unit #1
              (93.4 MW)
                            ) These three units fuel burned
Bartow Unit #2 (120.0 MW)
                           ) in boiler to produce steam to
                            ) turn turbine to produce electricity.
Bartow Unit #3 (235 MW)
```

The above three units are fueled with #6 fuel oil (2.5%  $^{\rm S}$  oil or less.)

#### PEAKING UNITS

```
(41.6 MW)
                       gas turbine fueled with #2 oil.
Bartow P-1
Bartow P-2 (40.7 MW)
Bartow P-3 (42.5 MW)
Bartow P-4 (41.7 MW)
```

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  $0.1\#/hr.x \cdot 10^6$  BTU's heat input -  $(SO_2)$  2.75#/hr.x 10 $^6$  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.x106 BTU State Method Particulate 0.070#/hr.x106 BTU "F" Factor Method  $2.29 \#/hr.x10^6$  BTU (fuel analysis) 2.5% S oil Opacity 15.8%

Bartow #2 (Tests on 1/24/80, 1/25/80, 1/30/80Particulate 0.057#/hr.x106 BTU State Method Particulate 0.051#/hr.x106 BTU "F" Factor Method  $SO_2$  2.29#/hr.xl0<sup>6</sup> BTU (fuel analysis) 2.5% S oil Opacity 13.3%

# WELLINGS WEDLINGSTON INSPERMION

#### 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 SO<sub>2</sub> 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		"		8/13/79	(In	Compliance)
Bartow P-3	11	11		8/13/79	(In	Compliance)
Bartow P-4	1)	"		8/13/79	(In	Compliance)

#### PERMITS:

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 DER PROCESSOR:BROWN DER OFFICE: TPA FILE#000000022554 COE# DATE FIRST REC: 08/06/79 APPLICATION TYPE:AO FILE NAME: GEORGE S. MOORE APPL NAME: FLORIDA POWER CORP. APPL PHONE: (843)866-4440 PROJECT COUNTY: 52 ADDR:P.O. BOX 14042 CITY:ST. PETERSBURG ST:FLZIP:33733 AGNT NAME: GEORGE W. MARSHALL AGNT PHONE: (813)866-4420 CITY:ST. PETERSBURG ST:FLZIP:33733 ADDR:P.O. BOX 14042 / / REC: / / ADDITIONAL INFO REQ: / / 1 / / 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: 1 HEARING WITHDRAWN/DENIED/ORDER -- DATES: 11 HEARING ORDER OR FINAL ACTION DUE DATE: MANUAL TRACKING DESIRED:N 10/25/79 13:40:11 \*\*\* RECORD HAS BEEN SUCCESSFULLY UPDATED \*\*\* FEE PD DATE#1:08/06/79 \$0020 RECEIPT#00032554 REFUND DATE: / / REFUND \$ REFUND DATE: / / REFUND \$ FEE PD DATE#2: / / \$ RECEIPT# APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE: 10/23/79 REMARKS: BARTOW PEAKING UNIT P-3

File Number 19052 - 22554

#### PERMIT APPLICATION STATUS SHEET

	Type of permit applied for $$	Ju Opera	llen	-
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<b>5</b>	Review by Sec. head and transfer to permitting Engineer	9-6.79	7	21
28	Completeness Review	·		
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*	information received *			
	Public Notice Published * (for Air Construction only)	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
55	Letter of Intent sent to * Supervisor		· · · · · · · · · · · · · · · · · · ·	
60	Letter of Intent submitted * to District Manager			. · ·
75	Intent to issue/deny mailed *			
80	Permitting Eng'r submit finished permit package & recommendations to supervisor			
83	Permit Package to Dist. Engr.		and the second s	
85	Permit Package to Dist. Manager	10-23-	79	20
90	Final Assuance/denial	10/23/	79	CRS

<sup>\*</sup>If needed, If not indicate by N/A

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STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

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Rev. 4/77

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# DEPARTMENT OF ENTRONMENTAL RECEATION 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.

<ol> <li>Source Address: weedon Island, St. Petersburg</li> <li>Description of Source: Gas Turbine Peaking Un</li> </ol>	MAR 7 1978  SOUTHWEST DISTRICT
<ol> <li>Permit Number: A052-2572</li> <li>Source Address: weedon Island, St. Petersburg</li> <li>Description of Source: Gas Turbine Peaking Un</li> </ol>	MAR 7 1978  SOUTHWEST DISTRICE
Source Address: weedon Island, St. Petersburg     Description of Source: Gas Turbine Peaking Un	MAR 7 1978  SOUTHWEST DISTRICE
4. Description of Source: Gas Turbine Peaking Un	it SOUTHWEST DISTRICT
	TAMPA
Operated 480.8 hrs in 1	7 days/wk <u>52</u> wks/yr
II RAW MATERIAL INPUT PROCESS WEIGHT:	
N/A	out Process Weight
	tons/yr
,	tons/yi
	tons/yi
	tons/yr
•	
IV TOTAL FUEL USAGE, including standby fuels. If fuel is oil,	, specify weight and sulfur content (e.g., No. 6 oil with 1%S).
10 <sup>6</sup> cubic feet Natural Gas	2062.28 10 <sup>3</sup> gallons No. 2 Oil 0.2 %S
	10 <sup>3</sup> gallons Kerosene
	10 <sup>6</sup> lb Black Liquor Solids
· · · · · · · · · · · · · · · · · · ·	tons Refuse
Other (Specify type and units)	<u> </u>
•	
V EMISSION LEVEL (tons/yr):	
2.51 A. Particulates —	Carbon Monoxide
CF CC	Fotal Reduced Sulfur
Hydrocarbon —	Flouride
19.06 Sulfur Dioxide	
Other (Specify type and units)	1 11
B. Method of calculating emission rates (e.g., use of fuel analysi Actual test data	s and materials balance, emission factors drawn from AP 42, etc.
VI CERTIFICATION:	Λ.
I hereby certify that the information given in this report is corr	oct to the bost of the knowledge.
	ignature of Owner or Authorized Representative
	V. P. Stewart, Director, Power Production
	yped Name and Title
	March 3, 1978

# STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL REGULATION

Nº 32554

#### RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

	wer Corp. Date 8-6-79
Address P. S. Bart 14042,	St. Petersburg Dollars \$ 20.00
	C. Moore, trame address!
	Deaking Unit P-3
Revenue Code O/O/	Application Number A 052-22554
	By Florelle Brarion
344539	By ANUXXE TOWN

State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

Anna	Routing To District Offices To Other Than The Addresses
To:	Loctn.:
To:	Loctn.:
To:	Loctn.:
From:	Date:

INTEROFFICE MEMORANDUM

TO:

Paul Parks/File

FROM:

DATE:

May 12, 1978

2

S. K. Nayak May

SOUTHWEST DISTRICT.

JUN 16 1978

TAMPA

SUBJECT:

FPC - Inspection conducted on 5/11/78; Bartow and Higgins

Facilities - issues related to compliance.

Based en(the memos dated May 8, 1978, and May 2, 1978,) on the detailed inspection conducted yesterday, I have to report that the controversial issues surrounding the compliance status of both the facilities at Bartow and Higgins are primarily related to the system load demand and load dispatch system operated and controlled by FPC. This system is primarily dictated by economic constraints and does not take into consideration the environmental requirements. By this, I mean the most economical units will be operated most often and at most stable load situations. This pushes the burden of handling most of the fluctuating load demand on the older - less economical - smaller units such as those located at Bartow-Higgins-Suwannee, etc.

The subject units were tested at steady full load (which is one of the normal requirements of stack testing) and they met compliance requirements. However, in my opinion, the units may not meet compliance requirements while operating at the normal fluctuating load situations. Thus, it is my determination that the units are unable to maintain compliance requirements during the present normal operating conditions. Such violations can occur during each of peaking load demands which occur at least twice a day.

The recommended solution to the problem is as follows:

- 1. The fluctuation in the load demand should be shared by the units consistent with the capability of each unit.
- 2. The FPC's computerized load dispatch system should be forced to accommodate environmental requirements.
- 3. The case should not be closed.

SKN:ac

# State of Florida DEPARTMENT OF ENVIRONMENTAL REGULATION

#### INTEROFFICE MEMORANDUM

For Routing To District Offices. And/Or To Other Than The Addressee		
To:	Loctn.:	
То:	Loctn.:	
То:	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<sub>X</sub>, and 8314 T/yr. SO<sub>2</sub>. 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<sub>X</sub>, and 2677 T/yr. SO<sub>2</sub>, 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<sub>X</sub> and 10429 T/yr. SO<sub>2</sub>, 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 < 20%. Plant seems to be in compliance.

#### RECORD OF VISUAL DETERMINATION OF OPACITY

#### STATE OF FLORIDA DE

LOCATION Barton P-3
PERMIT NUMBER AO 52-2572
DATE $\frac{6/29/77}{}$
TYPE FACILITY Das Turbine
CONTROL DEVICE - Home

EPARTMENT OF	ENVIRONMENTAL	REGULATION
• .		

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12	(3)
1: (A.T.	<b>1</b> [4
	):]
	<i>!</i> ./

Dennis A. Shantz

OBSERVER CERTIFICATION DATE

HOURS OF OBSERVATION OBSERVER\_ DA

the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9.

This certificate expires on...... Oct. 13, 1977

POINT OF EMISSIONS HEIGHT OF DISCHARGE POINT

Bearer's Signature

#### CLOCK TIME

**OBSERVER LOCATION** Distance to Discharge

Direction from Discharge

Height of Observation Point

BACKGROUND DESCRIPTION

WEATHER CONDITIONS Wind Direction

Wind Speed

Ambient Temperature

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

PLUME DESCRIPTION Color

Distance Visible

Other Information

Initial		Final
200		
West		
Gound		
Calm		
	·	
. 95°	 	
30%		÷
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They	 ·	
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#### SUMMARY OF AVERAGE OPACITY

Set	Time	Opacity :			
Number	StartEnd	Sum	Average		
1	1630-1636	240	10		
		-			
	• •		. :		
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·					
	,				

Readings ranged from 10 to 10 % opacity.

The source was/was-not in compliance with..... 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.

	•
•	

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

SECTION 1	1:	General SOURCE NAME: BARTOW P-3									
		MAILING ADDRESS: FLORIDA POWER CORPORATION									
			2, St. Petersburg, FL 33733								
		TELEPHONE NO: 813/866-4544	7								
		OPERATING PERMIT NO: A052-25	'2	WAR 10 1977							
		SOURCE DESCRIPTION: Gas Turbi	ne	SOUTH WEST DISTRICT							
SECTION :	2:	FROCESS OPERATIONS:	649.3 hours (1976)	OI: PETERSBURG							
	a.	DURATION OF OPERATION AND FREQUE.g. 8 hrs perday, 5 dys per wk	ENCY: 24 hrs/dy 7 dys/	/wk 52 wk/yr							
7	b.	DESIGN CRITERIA: MAXIMUM QUTPUT e.g. 850 MW, 750 tons/dy		Generation							
	C.	NORMAL (AVERAGE) OUTPUT 42.5 : e.g. 424 MW, 670 tons/dy.		Hours Operated							
1	d.	MAXIMUM PEAK THAT OCCURED DURING ANY ONE DAY 55.7 MW e.g. 910 MW, 810 tons/dy.									
SECTION 1	3:	TOTAL AMOUNT OF MATERIALS USED/ PROCESS WEIGHT: TYPE(MATERIAL)	PROCESSED, COMPUTED ON THE SA								
	-	n/A	N/A	tons/yr							
٠			<u> </u>	tons/yr							
				tons/yr							
				tons/yr							
SECTION	4:	TOTAL AMOUNT OF FUEL USED. IF FUEL IS OIL, SPECIFY WEIGHT, e.g. NO 2, and % sulfur by weight. INCLUDE STANDBY FUELS.									
		10 <sup>6</sup> cu ft	2620.7 10 <sup>3</sup> gal NO. 2	OILO.18 SULFUR							
	_	10 <sup>3</sup> gal PROPANE	10 gal KEROSEI	NE							
		tons COAL	10 <sup>6</sup> lb black li	IQUOR SOLIDS							
		OTHER, specify type and units									
SECTION	5:	EMISSION: ESTIMATED/TESTED EMIS	SIONS(TONS PER YEAR)								
	a.	Not tested tons of particulates	33.4 tons of sul	lfur dioxide							
		Not tons of nitrogen diox		rbon monoxide							
		Tested tons of hydrocarbon	tons	(other)							
	ъ.	STATE METHOD OF CALULATIONS USE $ \left(\frac{\text{Lbs Oil}}{\text{Gas Oil}}\right) \left(\frac{42 \text{ Gal}}{\text{BBL}}\right) \left(\frac{\text{Z S}}{\text{Lb}}\right) $	bs $SO_2$ (BBLS) (Ton	TES = Tons SO <sub>2</sub>							

UNKNOV

-···	ANNUAL OPERATING REPORT calendar year 1976
CTION 5(cont't)	

ECTION	5(c	ont't)
	c.	STACK TESTED: NONE date
		STACK TEST CONDITIONS: PROCESS RATE DURING TEST
		STACK TEST CONDUCTED BY:
		STACK TEST WITNESSED BY:
ECTION	6:.	OPERATIONAL PROBLEMS, IF ANY: NORMAL
٠		
	a.	IMPROVEMENTS MADE TO PROCESS/POLLUTION CONTROL EQUIPMENT: NONE
•		
	b.	TYPE OF MAINTENANCE PERFORMED: ROUTINE
	c.	NUMBER OF UPSETS LASTING MORE THAN FOUR HOURS DURING THE YEAR: UNKNOWN
	d.	NUMBER OF UPSETS LASTING MORE THAN ONE HOUR BUT NOT MORE THAN FOUR HOURS:
	e.	NUMBER OF UPSETS LASTING LESS THAN ONE HOUR: UNKNOWN
		en de la companya de La companya de la co
CERTIFI	CATI	ON:
	ΙH	EREBY CERTIFY THAT THE INFORMATION GIVEN IN THIS REPORT IS CORRECT TO THE
	BES	T OF MY KNOWLEDGE.
		Eustice arnelle_
		Signature of owner or authorized representative
		R. E. Parnelle, Jr., Manager, Environmental Operations
		Typed name and title
		March 4, 1977
		Date

# VISITE EMISSION FIELD REPORT

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

DATE 23 July 76

			1:							11ME
PERMIT	NUMBE	R	10	<u> 52 - </u>	257	<u>Z_</u>				TY Genellas
SOURC	E NAM	ES	Dan	Der-	P	3	<del>,</del>		COUN	TY Theellas
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SOURC	E DES	CRIPTIC	ON (T	YPE) _		as	YU	uibr	-5	
POINT	OF OF	SERVA	NOITA		Son	北	<u> </u>			
DISTA	NCE T	o sou	RCE _		504	1				. M
					0					(x) #
		SECO	NDS		1		SECO	NDS	$\overline{}$	DIRECTION OF OBSERVER FROM SOURCE
MIN	o	15	30	45	MIN	٥	15	30	45	DIRECTION OF OBSERVER FROM SOURCE
0	10	1	10		30					WEST CAURO
ı	1		i		31				1	SUSSETION OF WIND FROM SOUTH WELERSDU
2					32		<u> </u>			DIRECTION OF WIND FROM SOUNCE
3			1		33					
4	<del></del>				34				· · · · ·	WIND VELOCITY
5					35					WIII 1220111
6					36					
7			1		37					DIRECTION OF SUN FROM SOURCE / M
8					36					DIRECTION OF SUN FROM SOURCE West
9					39					
10					40			_	•	
11					41					CLOUD COVERAGE (IN %)
12	<u> </u>				42					CZO 16
13					43		-			
14	1				44					
15					4.5					NOTE:
16					46					I MINIMUM OF 25 READINGS MUST BE TAKEN.
17					47		·	_		2. READINGS ARE TO BE TAKEN EVERY 15-30 SECONDS
18	1		-+		48				ļ. —	TO THE NEAREST 5 % OPACITY.
19			$\rightarrow$		50		-		<del>                                     </del>	
20					51		1			
22					52				<del>  -</del>	SUM OF OPACITY READINGS 600
23			<del>-</del>		53		<del>                                     </del>		<del>  </del>	
24					54	<u> </u>			<del> </del>	
25					55				<del>                                     </del>	
26	1				56				<del>                                     </del>	TOTAL NUMBER OF READINGS
27					57			_		60
28	+		1		58				<del>  </del> .	STATE OF FLORIDA
29	10		10		59				<del>                                     </del>	STATE OF FLORIDA  DEPARTMENT OF ENVIRONMENTAL REGULATION
		LI	10		П		<u> </u>	1		DEPARTMENT OF ENVIRONMENTAL REGULATION
OPACIT	y _ SUL	OF OPA	CITY R	READINGS			109	_		
OFACTI	' TO1	TAL NUR	ABER OF	READIN	es //	7	, 0	<u> </u>		
00050	(C.D.	No	w	$\mathcal{M}$	J/Lx	N S	1			
OBSER					/ _	- (	7			Dennis Shantz has completed
NOTES	•						C/			the STATE OF FLORIDA visible emissions evaluation training
										and is a qualified observer of visible emissions as specified by
										EPA reference method 9.  This equificate expires on November 5, 1976
										$\mathcal{L}$
										Kohun Son Denne U Mante
THIS FIL	ELD REP	ORT SH	EET IS	DRAWN	IN ACC	ORDA	NCE W	итн т	HE REQL	IREME Certification Officer Bearer's Signature
				) EPA	STANDAR	RDS (	F PE	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

Mr. W. P. Stewart Florida Power Corporation P.O. Box 14042 St. Petersburg, Florida 33733 Bartow P-3

Dear Mr. Stewart:

RE: 1974 Operations and Emission Inventory AC52-2100, AO52-2568, AO52-2571, AO52-2572, AO52-2573, AO52-2569,

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.

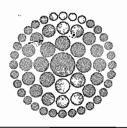
Please use actual figures for items such as process weight, fuel consumption operating time and emission factors.

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





## Florida Power

July 15, 1977

Florida Department of Environmental Regulation 9721 Executive Center Drive North St. Petersburg, FL 33742

SUBJECT:

Stipulation for Consent Order

Dated June 24, 1976

#### Gentlemen:

In regard to the above-cited document, we are hereby transmitting, in accordance with Stipulation 3, the results of "Hi-Vol" sampling conducted adjacent to Bartow Unit 3 during the second quarter of 1977.

If you have questions concerning this report, please contact the undersigned at (813) 866-4660 or write to the address shown.

Sincerely,

√J.B. Clardy

Supervisor, Chemical and

Environmental Services

**Enclosure** 

JBC/sac 870-P

JUL 18 1977
SOUTH WEST DISTRICT
ST. PETERSBURG



# ENVIRONMENTAL & FUEL OIL

## **LABORATORY**

Tel: 866-5723

REPORT NO.:

138

**SAMPLE DESCRIPTIONS:** 

DATE:

July 11, 1977

Refer to results.

PLANT:

Bartow

ANALYSIS:

Air Particulate Matter

#### LABORATORY RESULTS

The month of June had five (5) faulty sampling periods. These were due to faulty motor, improper operation of timer and faulty chart recordings.

B. P. Shout you

B. P. Hunt, M.A. Environmental Chemist



# ENVIRONMENTAL Pruel OIL

#### LABORATORY

Tel: 866-5723

**REPORT NO.:** 

139

**SAMPLE DESCRIPTIONS:** 

**DATE**: July 11, 1977

Refer to results

PLANT:

Bartow

ANALYSIS:

Air Particulate Matter

#### LABORATORY RESULTS

This report is the Quarterly ambient air particulate concentration

Description	Geo. Mean Mg/m3	No. of Samplings	No. of Good Samplings	
2nd. Quarter	 37.06	15	8	25.38 47.05

D. E. R.

JUL 18 197,

SOUTH WEST DISTRICE ST. PETERSBURG

B. P. Hunt, M.A. **Environmental Chemist** 

#### **BEST AVAILABLE COPY**





#### STATE OF FLORIDA



#### DEPARTMENT OF POLLUTION CONTROL

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

W.D. FREDERICK..JR.

PETER P. BALJET EXECUTIVE DIRECTOR

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

Florida: Power Corporation

P. O. Box 14042

St. Petersburg, Florida 33733

Re: A052-2568

A052-2573

A052-2569

A052-2574

A052-2571

A052-2575

A052-2572 A052-2576

Dear Sir:

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

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

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

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

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

If you have any questions, please contact this office.

Sincerely,

J. H. Kerns, P.E.

Regional Engineer

West Central Region

JHK/JLT/pm

## OBSERVATION RECORD

,			SECO	NDS		STEAM (check if a	•	IIII 6 1977
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	2	10	10	10	10			
	3	10	10	10	10			
ļ	4	10	10	10	10.			
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