



Florida Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT

CERTIFIED MAIL

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

Dear Mr. Pardue:

Re: Pinellas County - AP
Bartow Plant Unit No. 1 Fly Ash System
Permit Amendment
A052-232464

The Department is in receipt of a request dated 9/14/93 from Mr. Scott H. Osbourn, Senior Environmental Engineer, Florida Power Corporation, to amend the above referenced air operation permit which was issued on 8/30/93. The permit has been amended as follows:

DESCRIPTION, Changed to read as follows:

For the operation of Bartow Plant Unit No. 1 Fly Ash System. The design fly ash transfer capacity of the system to the storage silo is 4,000 pounds/hour. Emissions from the storage silo are controlled by a Flakt/Flex Kleen, Inc., Model 90-UKE-16 baghouse having a set of 16 filter bags. Each filter bag has a cloth filtration area of 157.0 square feet. The storage silo operates with a fan vent capacity of 235.0 scfm.

SPECIFIC CONDITION NO. 4, Changed to read as follows:

4. The fly ash system storage silo shall be tested for visible emissions annually within 60 days prior to May 01. The compliance test report shall be submitted within 45 days after completion of the test to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rules 17-297.340(1)(a) and 17-297.450(2), F.A.C.).

REVISED O & M PLAN:

The revised O & M Plan submitted on 9/14/93 for this source is being incorporated into the permit, replacing the existing O & M Plan.

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, Florida 32399-2400 within 14 days of receipt of this permit amendment.

Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative proceeding (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's Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's subsequent interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the department's action or proposed action.

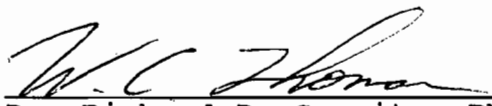
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the permit amendment have a 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 permit amendment, in the Office of General Counsel at the above address of the Department. Failure to petition within the allotted time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

This permit 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 an extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, Florida Administrative Code.

Upon timely filling 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 Appellant 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.

This amendment letter must be attached to and becomes a part of permit number AO52-232464. If you have any questions, please contact George Richardson in the Air Permitting Section at (813)744-6100, Ext. 420.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


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

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

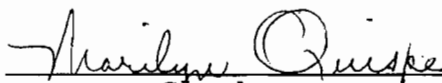
cc: Pinellas County Department of Environmental Management
Albert W. Morneault, P.E., Florida Power Corporation
Scott H. Osbourn, Florida Power Corporation

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this Notice of Permit Amendment and all copies were mailed by certified mail before the close of business on JAN 18 1994 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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


Clerk

JAN 18 1994
Date

P 648 752 160



Certified Mail Receipt

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

MR SCOTT OSBOURN
FLORIDA POWER CORP
PO BOX 14042
ST PETERSBURG FL 33733

Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date JAN 18 1994	

PS Form 3800, June 1990

P 648 752 159



Certified Mail Receipt

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

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Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date JAN 18 1994	

PS Form 3800, June 1990

P 648 752 158



Certified Mail Receipt

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

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Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Address of Delivery	
TOTAL Postage & Fees	\$
Postmark or Date JAN 18 1994	

PS Form 3800, June 1990



Lawton Chiles
Governor

Florida Department Environmental Protection

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

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

DER File No.: A052-232464
County: Pinellas

Enclosed is Permit Number A052-232464 to operate Bartow Plant Unit No. 1 Fly Ash System, issued pursuant to Section 403.087, Florida Statutes and Florida Administrative Code Rules 17-200 through 297 & 17-4.

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

The Petition shall contain the following information:

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

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

Page Two

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

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

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

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

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

This permit 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 in which to file a petition this permit will not be effective until further Order of the Department.

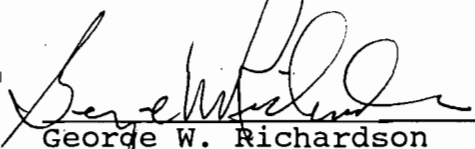
When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of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

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

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Executed in Tampa, Florida

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


George W. Richardson
Air Permitting Engineer
Southwest District

3804 Coconut Palm Drive
Tampa, FL 33619-8318
(813)744-6100, Ext. 420

cc: Albert W. Morneault, P.E., Florida Power Corporation
Pinellas County Department of Environmental Management

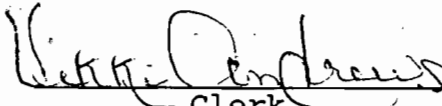
Attachment:

CERTIFICATE OF SERVICE

The undersigned duly designated Deputy Department Clerk hereby certifies that this NOTICE OF PERMIT ISSUANCE and all copies were mailed before the close of business on AUG 30 1993 to the listed persons.

FILING AND ACKNOWLEDGEMENT

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


Clerk

AUG 30 1993
Date

P 149 936 950

RECEIPT FOR CERTIFIED MAIL

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

Sent to JEFFREY PARDUE	
FLORIDA POWER	
PO BX 14042	
ST PETERS 33733	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date 8-30-93	

PS Form 3800, June 1985

P 149 936 888

RECEIPT FOR CERTIFIED MAIL

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

Sent to ALBERT W MORNEAULT	
FLORIDA POWER	
3201-34TH ST S	
ST PETERS 33733	
Postage	S
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt showing to whom and Date Delivered	
Return Receipt showing to whom, Date, and Address of Delivery	
TOTAL Postage and Fees	S
Postmark or Date 8-30-93	

PS Form 3800, June 1985



Florida Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

PERMITTEE:

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

PERMIT/CERTIFICATION

Permit No: AO52-232464
County: Pinellas
Expiration Date: 8-26-98
Project: Bartow Plant Unit
No. 1 Fly Ash System

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rules 17-200 through 299 & 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 Bartow Plant Unit No. 1 Fly Ash System. The design fly ash transfer capacity of the system to the storage silo is 4,000 pounds/hour. Emissions from the storage silo are controlled by a Flakt, Inc. Model 90-UKE-16 Arrangement II baghouse having a set of 16 filter bags. Each filter bag has a cloth filtration area of 157.0 square feet. The storage silo operates with a vent fan capacity of 235.0 scfm.

Location: Weedon Island, St. Petersburg, Pinellas County

UTM: 17-342.3 E 3082.7 N NEDS NO: 0011 Point ID: 09

Replaces Permit No.: AO52-149203

PERMITTEE:
Florida Power Corporation

Permit No.: A052-232464
Project: Bartow Plant Unit
No. 1 Fly Ash System

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. At the request of Florida Power Corporation the maximum allowable emission rate of particulate matter from the fly ash system shall not exceed 1.0 pounds/hour and 0.35 tons/year in order to qualify for the particulate RACT exemption as specified in Rule 17-296.700(2)(c), F.A.C.
3. Due to the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department, pursuant to the authority granted under Rule 17-297.620(4), F.A.C., hereby establishes a visible emission limitation not to exceed an opacity of 5% in lieu of a particulate stack test.
4. The fly ash system storage silo shall be tested for visible emissions annually within 60 days prior to March 16. The test report shall be submitted within 45 days after the test is completed to the Air Section of the Department's Southwest District Office and the Pinellas County Department of Environmental Management, Air Quality Division (Rules 17-297.340(1)(a) and 17-297.450(2), F.A.C.).
5. Compliance with the visible emissions limitation of Specific Condition No. 3 shall be determined using DER Method 9 contained in Rule 17-297, F.A.C. The visible emissions compliance tests shall be conducted by a certified observer and be a minimum of 30 minutes in duration. The fly ash transfer rate to the storage silo during the compliance test shall be specified in the test report. The minimum requirements for source sampling and reporting shall be in accordance with Rule 17-297, F.A.C.
6. Testing of emissions must be conducted within 90-100% of the maximum permitted fly ash system transfer capacity to the storage silo of 4,000 pounds/hour. A compliance test submitted at an operating rate less than 90% of maximum permitted rate will automatically constitute an amended permit at the lesser rate until another test showing compliance at a higher rate, not to exceed 4,000 pounds/hour, is submitted. Failure to submit the fly ash transfer rate to the storage silo and actual operating conditions may invalidate the test (Rule 17-4.070(3), F.A.C.).
7. Florida Power Corporation shall notify the Pinellas County Department of Environmental Management, Air Quality Division at least 15 days prior to the date on which each formal compliance test is to begin (Rule 17-297.340(1)(i), F.A.C.).
8. Bartow Plant Unit No. 1 Fly Ash System is permitted to operate continuously, 8,760 hours/year.

PERMITTEE:
Florida Power Corporation

Permit No.: A052-232464
Project: Bartow Plant Unit
No. 1 Fly Ash System

9. Should the Department or the Pinellas County Department of Environmental Management, Air Quality Division have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standard be demonstrated by testing in accordance with Rule 17-297, F.A.C (Rule 17-297.620(4), F.A.C.).

10. The maximum permitted fly ash transfer capacity to the storage silo shall not exceed 4,000 pounds/hour (permit application dated 6/3/93).

11. 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 year (Rule 17-210.370(2), F.A.C.).

12. Florida Power Corporation shall follow the Operation & Maintenance (O&M) Plan submitted with the renewal application received June 4, 1993 for Bartow Plant Unit No. 1 Fly Ash System, in accordance with Pinellas County Ordinance 89-70, Section 3, Part 2.230(1)&(2), adopted January 2, 1990. The submitted O&M Plan is made a part of this permit. The O&M Plan documentation logs shall be maintained for a minimum of two years. At a minimum the O&M Plan shall include:

- A. The operating parameters of the pollution control device.
- B. Time table for the routine maintenance of the pollution control device as specified by the manufacturer.
- C. Time table for routine weekly, bi-weekly, or monthly observations of the pollution control device.
- D. A list of the type and quantity of the required spare parts for the pollution control device which are stored on the premises.
- E. A record log which will indicate, at a minimum:
 1. When maintenance was performed.
 2. What maintenance was performed.
 3. Who performed the maintenance.

13. All reasonable precautions shall be taken to prevent and control the generation of unconfined emissions of particulate matter in accordance with Rule 17-296.310(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition of wrecking, or industrial related activities such as loading, unloading, storing and handling.


PERMITTEE:
Florida Power Corporation

Permit No.: A052-232464
Project: Bartow Plant Unit
No. 1 Fly Ash System

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

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

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


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

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

Bartow Flyash System
Operation and Maintenance Plan
Permit Number A052-232464

Operating Parameters and Operational Checks

Flyash Air Compressors supply air as the conveying medium for flyash transport to the silo and air for instrumentation. The compressors are Ingersoll-Rand Model SSR-1000 rotary screw type. The air supply system design pressure is 100 psi with air consumption of 92 scfm average and 117 scfm peak.

Design flyash transport capacity is a maximum of 4,000 lb/hr.

The silo operates with a vent fan capacity of 235 scfm. The silo operates at approximately 4" WG vacuum. The silo exhausts to a set of 16 FLAKT/Flex Kleen 90-UKE-16 filter bags. Each filter bag has a cloth area of 157 sq. ft. designed for pressures of + or - 17" WG.

The rotary feeder, dustless unloader and belt conveyor have a design capacity of 5 tons per hour. Water is supplied to the dustless unloader at 40 psig.

Operational checks made every shift are shown below.

Flyash Compressors/Air Supply

- Check oil levels and check for oil leaks
- Check for proper discharge pressures (120-140 psig)
- Check for air dryer and filter operation @ pressure drop less than 10 psi
- Check that backup compressor and dryer are ready for service
- Check for proper pressure from receiver tank to system (80 to 100 psi)
- Check for receiver tank air leaks

Flyash Storage Silo

- Check for continuous operation of silo vent fan and shaker
- Check controls for rotary and dustless unloaders and belt conveyor
- Check for leaks around silo and ash transport lines
- Clean area after operation of system

Maintenance Plan

The maintenance intervals shown below are in accordance with manufacturer's recommendations. It should be noted that manufacturers do not specify exact intervals, but give guidance depending on site-specific variables.

	<u>Mthly</u>	<u>Qrtly</u>	<u>4 mos</u>	<u>6 mos</u>	<u>Annual.</u>
Flyash Compressors					
- Drain oil from separator/refill				X	
- Clean separator				X	
- Replace element inside separator				X	
- Change oil and air filters				X	
- Clean scavenger orifice screen				X	
- Check bolts and condensate trap				X	
-Grease bearings and electrical checks on motors*					
 Receiver Tank					
-Clean inside		X			
-Replace door gasket		X			
 Air Supply System					
-Dig transport lines	X				
-Change in-line filters/air dryers	X				
-Check drain lines/clean as necessary	X				
 Flyash Storage Silo					
-Filter bags (16) inspect and or replace			X		
-Bearings on conveyor - grease		X			
-Bearings on unloader - grease		X			
-Bearings on all motors - grease*					
-Rotary valve bearings - grease					X

*Varies per manufacturer

Spare Parts

The following is a list of major items stocked for critical pieces of equipment. There are many small parts such as switches, small valves, gaskets, fasteners, seals, instrumentation etc., that are too numerous to list. Quantities of spare parts vary with time of the year, determination of need as equipment ages and economic reorder quantities (ie: pricing in quantities).

Fly Ash Compressors (most major replacement parts are stocked)

- Coolant in 5 gallon containers
- Seal Oil
- Air dryer filters
- Orifices
- Pressure regulator
- Separator element
- Scavenge screen
- Moisture trap

Ash Transmitters/Silo/Vent Fan/Unloader/Conveyor

- Transmitter isolation and safety relief valves
- Rotary feeder worm gears, shafts and bearings
- Conveyor belt 109 foot section
- Conveyor drive pulley and roller
- Dustless unloader bearings, bearing housing, drive socket
- Silo filter bags - approximately 80 kept on hand

ATTACHMENT - GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

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

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

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

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

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

14. The permittee shall comply with the following:

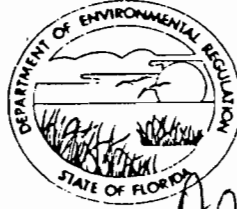
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other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

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

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

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



BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

D.E.R.

JUN 04 1993

A052-232469
APPLICATION FOR RENEWAL OF
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

SOUTHWEST DISTRICT
TAMPA

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

Source Type: Bartow Unit 1 Fly Ash System Renewal of DER Permit No. A052-149203
Company Name: Florida Power Corporation County: Pinellas

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

Fly Ash Storage Silo

Source Location: Street: Weedon Island City: St. Petersburg

UTM: East 17.342.3 North 3082.7

Latitude: 2 7° 5 1' 3 9 "N. Longitude: 8 2° 3 6' 0 3 "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. Yes No
Not applicable-- Title V facility
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%Wt	Rate	lbs/hr
Fly Ash			4,000	

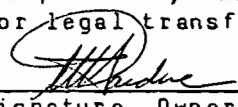
B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	

D. Normal Equipment Operating Time: hrs/day 8,760; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) _____; 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.



Signature, Owner or Authorized Representative
 (Notarization is mandatory)

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

*During actual time of operation.

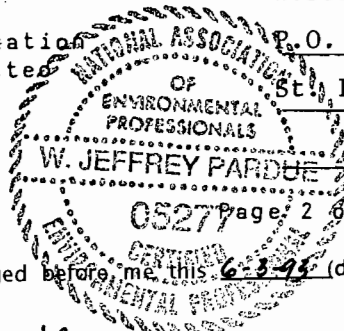
**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted

P.O. Box 14042 Address _____
St. Petersburg, FLA City _____ State _____ Zip 33733

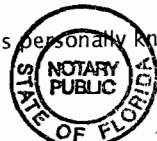
3 JUNE 1993 Date _____ Telephone No. (813) 866-4387

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



State of Florida, County of Pinellas
 The foregoing instrument was acknowledged before me this _____ (date) by _____ who is personally known to me did not take an oath.

Rebecca S. Brown, Notary Public



REBECCA S. BROWN
 My Comm. Exp. 12-23-95
 Bonded By Service Ins. Co.
 # CC 169995

OPERATION PERMIT RENEWAL
Professional Engineer Certification

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

Company Name: FLORIDA POWER CORPORATION

Source Name: BARTOW UNIT 1 FLY ASH SILO

Source Permit No.: AO 52-149203

Source ID: NEDS NO. 0011 POINT ID: 09

County: PINELLAS

D.E.R.
JUN 04 1993
SOUTHWEST DISTRICT
TAMPA

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

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

Albert W. Morneault
Name

Florida Power Corporation
Company Name

3201 - 34th Street South
Street Address

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

Affix Seal

Signed Albert W. Morneault

Florida Registration No. 14054

Date: May 5, 1993

Telephone No. 813/866-5162

Taken From DER Form 17-1.202(1)

BARTOW FLYASH SYSTEM
OPERATION AND MAINTENANCE PLAN
PERMIT NUMBER A052-149203

D.E.R.

JUN 04 1993

SOUTHWEST DISTRICT
TAMPA

OPERATING PARAMETERS AND OPERATIONAL CHECKS

Flyash Air Compressors supply air as the conveying medium for flyash transport to the silo and air for instrumentation. The compressors are Ingersoll-Rand Model SSR-1000 rotary screw type. The air supply system design pressure is 100 psi with air consumption of 92 scfm average and 117 scfm peak.

Design flyash transport capacity is a maximum of 4,000 lb/hr.

The silo operates with a vent fan capacity of 235 scfm. The silo operates at approximately 4"WG vacuum. The silo exhausts to a set of 16 FLAKT/Flex Kleen 90-UKE-16 filter bags. Each filter bag has a cloth area of 157 sq ft. designed for pressures of + or - 17"WG.

The rotary feeder, dustless unloader and belt conveyor have a design capacity of 5 tons per hour. Water is supplied to the dustless unloader at 40 psig.

Operational checks made every shift are shown below.

Flyash Compressors/Air Supply

- Check oil levels and check for oil leaks
- Check for proper discharge pressure (120-140 psig)
- Check for air dryer and filter operation @ pressure drop less than 10 psi
- Check that backup compressor and dryer are ready for service
- Check for proper pressure from receiver tank to system (80 to 100 psi)
- Check for receiver tank air leaks

Flyash Storage Silo

- Check for continuous operation of silo vent fan and shaker
- Check controls for rotary and dustless unloaders and belt conveyor
- Check for leaks around silo and ash transport lines
- Clean area after operation of system.

MAINTENANCE PLAN

The maintenance intervals shown below are in accordance with manufacturer's recommendations. It should be noted that manufacturers do not specify exact intervals, but give guidance depending on site specific variables.

D.E.R.

JUN 04 1993

**SOUTHWEST DISTRICT
TAMPA**

M	Q	4	6	A
O	U	M	M	N
N	A	O	O	N
T	R	N	N	U
H	T	T	T	A
L	E	H	H	L
Y	R	S	S	L
	L			Y
	Y			

Flyash Compressors

Drain oil from separator/refill					X
Clean separator					X
Replace element inside separator					X
Change oil and air filters					X
Clean scavenger orifice screen					X
Check bolts and condensate trap					X
Grease bearings and electrical checks on motors				varies	

Receiver Tank

Clean inside					X
Replace door gasket					X

Air Supply System

Dig transport lines					X
Change in-line filters/air dryers					X
Check drain lines/clean as necessary					X

Flyash Storage Silo

Filter bags (16) inspect and/or replace					X
Bearings on conveyor - grease					X
Bearings on unloader - grease					X
Bearings on all motors - grease				varies per manufacturer	
Rotary valve bearings - grease					X

SPARE PARTS

The following is a list of major items stocked for critical pieces of equipment. There are many more small parts such as switches, small valves, gaskets, fasteners, seals, instrumentation etc., that are too numerous to list. Quantities of spare parts vary with time of year, determination of need as equipment ages and economic reorder quantities (ie: pricing in quantities).

Fly Ash Compressors (most major replacement parts are stocked)

Coolant in 5 gallon containers
Seal Oil
Air dryer filters
Orifices
Pressure regulator
Separator element
Scavenge screen
Moisture trap

D.E.P.
JUN 04 1993

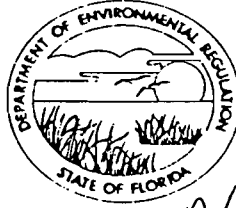
SOUTHWEST DISTRICT
TAMPA

Ash Transmitters/Silo/Vent Fan/ Unloader/Conveyor

Transmitter isolation and safety relief valves
Rotary feeder worm gears, shafts and bearings
Conveyor belt 109 foot section
Conveyor drive pulley and roller
Dustless unloader bearings, bearing housing, drive socket
Silo filter bags - approximately 80 kept on hand

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

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



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

A052 232 726

D.E.R.

JUN 07 1993

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

SOUTHWEST DISTRICT
TAMPA

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

Source Type: Bartow Unit 1 Fly Ash System Renewal of DER Permit No. A052-149203
Company Name: Florida Power Corporation County: Pinellas

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

Fly Ash Storage Silo

Source Location: Street: Weedon Island City: St. Petersburg

UTM: East 17.342.3 North 3082.7

Latitude: 2 7° 5 1' 3 9"N. Longitude: 8 2° 3 6' 0 3"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. Not applicable-- Title V facility
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

8. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr
Fly Ash			4,000	

B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	

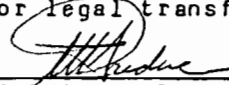
D. Normal Equipment Operating Time: hrs/day 8,760; days/wk _____; wks/yr _____;
 hrs/yr (power plants only) _____; if seasonal, describe _____

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.

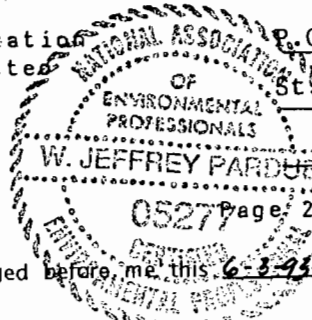
**Units: Natural Gas-MMCF/hr;
 Fuel Oils-barrels/hr; Coal-lbs/hr.

***Attach letter of authorization if not previously submitted.

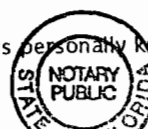

 Signature, Owner or Authorized Representative
 (Notarization is mandatory)
W. Jeffrey Pardue, C.E.P., Manager, Env. Programs
 Typed Name and Title

P.O. Box 14042 Address
St. Petersburg, FLA City State Zip
33733
3-JUNE-1993 Date
(813) 866-4387 Telephone No.

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



State of Florida, County of Pinellas
 The foregoing instrument was acknowledged before me this 6-3-93 (date) by W. Jeffrey Pardue who is personally known to me did not take an oath.
Rebecca S. Brown, Notary Public
 REBECCA S. BROWN
 My Comm. Exp. 12-23-95
 Bonded By Service Ins. Co.



OPERATION PERMIT RENEWAL
Professional Engineer Certification

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

Company Name: FLORIDA POWER CORPORATION

Source Name: BARTOW UNIT 1 FLY ASH SILO

Source Permit No.: AO 52-149203

Source ID: NEDS NO. 0011 POINT ID: 09

County: PINELLAS

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

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

Albert W. Morneault
Name

Florida Power Corporation
Company Name

3201 - 34th Street South
Street Address

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

Affix Seal



Signed Albert W. Morneault

Florida Registration No. 14054

Date: May 5, 1993

Telephone No. 813/866-5162

Taken From DER Form 17-1.202(1)



David L. Miller
Senior Vice President
Corporate Services

February 9, 1993

TO WHOM IT MAY CONCERN

Subject: Letter of Authorization

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

Sincerely,

A handwritten signature in black ink, appearing to read "David L. Miller", with a large, stylized flourish at the end.

David L. Miller

DLM:mlp

**BARTOW FLYASH SYSTEM
OPERATION AND MAINTENANCE PLAN
PERMIT NUMBER A052-149203**

OPERATING PARAMETERS AND OPERATIONAL CHECKS

Flyash Air Compressors supply air as the conveying medium for flyash transport to the silo and air for instrumentation. The compressors are Ingersoll-Rand Model SSR-1000 rotary screw type. The air supply system design pressure is 100 psi with air consumption of 92 scfm average and 117 scfm peak.

Design flyash transport capacity is a maximum of 4,000 lb/hr.

The silo operates with a vent fan capacity of 235 scfm. The silo operates at approximately 4"WG vacuum. The silo exhausts to a set of 16 FLAKT/Flex Kleen 90-UKE-16 filter bags. Each filter bag has a cloth area of 157 sq ft. designed for pressures of + or - 17"WG.

The rotary feeder, dustless unloader and belt conveyor have a design capacity of 5 tons per hour. Water is supplied to the dustless unloader at 40 psig.

Operational checks made every shift are shown below.

Flyash Compressors/Air Supply

- Check oil levels and check for oil leaks
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- Check that backup compressor and dryer are ready for service
- Check for proper pressure from receiver tank to system (80 to 100 psi)
- Check for receiver tank air leaks

Flyash Storage Silo

- Check for continuous operation of silo vent fan and shaker
- Check controls for rotary and dustless unloaders and belt conveyor
- Check for leaks around silo and ash transport lines
- Clean area after operation of system.

MAINTENANCE PLAN

The maintenance intervals shown below are in accordance with manufacturer's recommendations. It should be noted that manufacturers do not specify exact intervals, but give guidance depending on site specific variables.

M	Q	4	6	A
O	U	M	M	N
N	A	O	O	N
T	R	N	N	U
H	T	T	T	A
L	E	H	H	L
Y	R	S	S	L
	L			Y
	Y			

Flyash Compressors

Drain oil from separator/refill				X
Clean separator				X
Replace element inside separator				X
Change oil and air filters				X
Clean scavenger orifice screen				X
Check bolts and condensate trap				X
Grease bearings and electrical checks on motors			varies	

Receiver Tank

Clean inside			X	
Replace door gasket			X	

Air Supply System

Dig transport lines			X	
Change in-line filters/air dryers			X	
Check drain lines/clean as necessary			X	

Flyash Storage Silo

Filter bags (16) inspect and/or replace				X
Bearings on conveyor - grease			X	
Bearings on unloader - grease			X	
Bearings on all motors - grease			varies per manufacturer	
Rotary valve bearings - grease				X

SPARE PARTS

The following is a list of major items stocked for critical pieces of equipment. There are many more small parts such as switches, small valves, gaskets, fasteners, seals, instrumentation etc., that are too numerous to list. Quantities of spare parts vary with time of year, determination of need as equipment ages and economic reorder quantities (ie: pricing in quantities).

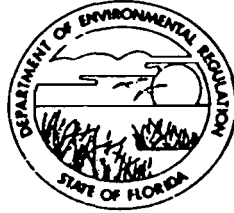
Fly Ash Compressors (most major replacement parts are stocked)

- Coolant in 5 gallon containers
- Seal Oil
- Air dryer filters
- Orifices
- Pressure regulator
- Separator element
- Scavenge screen
- Moisture trap

Ash Transmitters/Silo/Vent Fan/ Unloader/Conveyor

- Transmitter isolation and safety relief valves
- Rotary feeder worm gears, shafts and bearings
- Conveyor belt 109 foot section
- Conveyor drive pulley and roller
- Dustless unloader bearings, bearing housing, drive socket
- Silo filter bags - approximately 80 kept on hand

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-9544

813-623-5561
SunCom—552-7612

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

August 5, 1988

NOTICE OF PERMIT

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

Dear Mr. Hancock:

Re: Pinellas County - AP
A052-149203

Enclosed is Permit Number A052-149203 to operate a fly ash collection and storage system, issued pursuant to Section 403.087, Florida Statutes.

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

Mr. J. A. Hancock
Vice President, Fossil
Operations
St. Petersburg, FL 33733

Page Two

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

Sincerely,



Rama Iyer
Air Permitting Engineer

RI/mbq
Enclosures

cc: PCDEM

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on AUG 5 1988 to the listed persons.

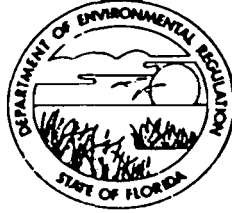
FILING AND ACKNOWLEDGEMENT
FILED, on this date, pursuant
to §120.52(10), Florida
Statutes, with the designated
Department Clerk, receipt of
which is hereby acknowledged.



Clerk

AUG 5 1988
Date

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

4520 OAK FAIR BLVD.
TAMPA, FLORIDA 33610-9544

813-623-5561
SunCom—552-7612

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

DR. RICHARD D. GARRITY
DISTRICT MANAGER

APPLICANT:

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

PERMIT/CERTIFICATION

Permit No. AO52-149203
County: Pinellas
Expiration Date: 08/02/93
Project: Fly Ash System/Silo

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Chapter 17-2, Florida Administrative Code. The above named applicant, hereinafter called Permittee, is hereby authorized to perform the work or operate the facility shown on the approved drawing(s) plans, 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 pneumatic system and silo to collect and store fly ash from an electrostatic precipitator in the stack of a fossil fuel boiler. The design capacity of the system is 4000 lbs./hour. Emissions are controlled with a Flakt, Inc., Model 90-WKE-16 baghouse rated at 5 ACFM.

Location: Weedon Island, St. Petersburg

UTM: 17-342.3E 3082.7N NEDS No.: 0011 Point ID: 09

Replaces Permit No.: AO52-71879

PERMITTEE:
Florida Power Corporation

PERMIT NO.: AO52-149203
PROJECT: Fly Ash System/Silo

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The design capacity of the system is 4000 lbs./hour.
3. At the request of the permittee and in order to qualify for the RACT exemption specified in Subsection 17-2.650(2)(b)(3), F.A.C., the maximum allowable particulate emissions shall not exceed 1.0 lbs./hour and 0.35 tons/year.
4. Visible emissions shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C.
5. Test the emissions for the following pollutant(s) at intervals of 12 months from the date of September 10, 1987 and submit a copy of test data to the Air Sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 45 days of such testing, Chapter 17-2.700(2), Florida Administrative Code.

(X) Particulates
(X) Opacity
6. Compliance with the emission limitations of Specific Conditions No. 3 and 4 shall be determined using EPA Methods 1, 2, 4, 5 and 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.
7. Testing of emissions must be accomplished with the boiler and electrostatic precipitator operating within 10% of design capacity. Failure to submit the input rates or operation at conditions which do not reflect operating conditions may invalidate the data (Subsection 403.161(1)(c), Florida Statutes).
8. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department pursuant to the authority granted under Subsection 17-2.700(3)(d), F.A.C. hereby waives the requirement for a

PERMITTEE:
Florida Power Corporation

PERMIT NO.: AO52-149203
PROJECT: Fly Ash System/Silo

stack test. The alternative standard set forth by this provision establishes a visible emission limitation not to exceed an opacity of 5%.

9. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing in accordance with Section 17-2.700, F.A.C.

10. The Pinellas County Department of Environmental Management shall be notified in writing 15 days prior to compliance testing.

11. 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.

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

12. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Subsection 17-2.610 (3), F.A.C.. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.


PERMITTEE:
Florida Power Corporation

PERMIT NO.: AO52-149203
PROJECT: Fly Ash System/Silo

13. Three applications for an 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 5 day of August
19 88

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



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

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Section 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.712(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefore caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by any order from the department.

GENERAL CONDITIONS (con't):

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credential 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 (17-6.130) 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.

GENERAL CONDITIONS (con't):

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Section 403.73 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

() Determination of Best Available Control Technology (BACT)

() Determination of Prevention of Significant Deterioration (PSD)

() Certification of Compliance with State Water Quality Standards (Section 401. PL 92-500)

() Compliance with New Source Performance Standards

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

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

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.

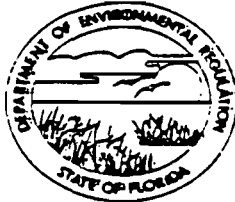
c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or 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.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32301



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

\$ 100.00

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

A052-49120
149203

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

Source Type: Bartow Unit 1 Fly Ash System Renewal of DER Permit No. A052-71879

Company Name: Florida Power Corporation County: Pinellas

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

Fly Ash Storage Silo

Source Location: Street: Weedon Island City: Pinellas County St. Petersburg

UTM: East 17,342.3 North 3082.7

Latitude: 27° 51' 39" N. Longitude: 82° 36' 03" 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. 17-4.050(4)(a)7 = \$100.00
2. Have there been any alterations to the plant since last permitted? Yes No
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to? Yes No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit? Yes No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach.
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department? Yes No
7. Has the annual operating report for the last calendar year been submitted? Yes No If no, please attach.

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

Page 1 of 2

D. E. R.

MAY 09 1988

SOUTH WEST DISTRICT
TAMPA

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Contaminant		Utilization	
	Type	%wt	Rate	lbs/hr
Fly Ash			4,000	→ 2 TPIA

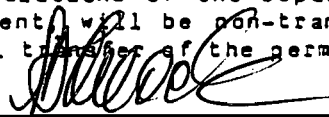
B. Product Weight (lbs/hr): _____

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	

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

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



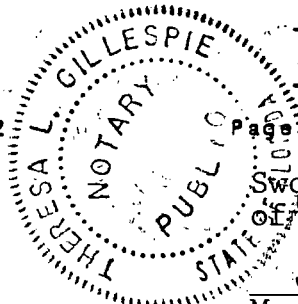
Signature, Owner or Authorized Representative
 (Notarization is mandatory)
J. A. Hancock, Vice President, Fossil Operations
 Typed Name and Title
P. O. Box 14042
 Address:
St. Petersburg, FL 33733
 State Zip
(813)866-4524
 Telephone No.

*During actual time of operation.

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

***Attach letter of authorization if not previously submitted

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



Page 2 of 2

Sworn to and subscribed before me this 6th day of May, 1988.

Theresa L. Gillespie

My Commission Expires: Oct. 21, 1990

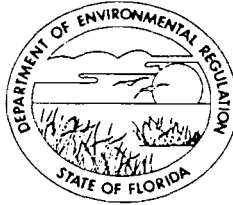
5162
 MORE

AR Morncaudt

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

September 23, 1983

Mr. T. H. Wooten
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

Re: Pinellas County - AP
Florida Power Corporation
Bartow No. 1 - Fly Ash System
A052-71893-79

RECEIVED

OCT 24 1983

AIR AND WATER
QUALITY DIVISION

Dear Mr. Wooten:

In response to your letter of August 22, 1983, requesting a modification of the referenced permit, the following changes are hereby made:

1. Change the Permittee from: Mr. W. S. O'Brien to Mr. J. A. Hancock, Vice President, Fossil Operations

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

If we can be of further assistance, please give us a call.

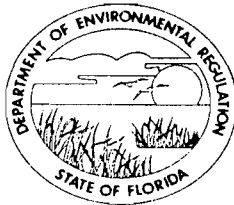
Sincerely,

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

JWE/scm

cc: ✓ PCDEM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION



SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610-9544

Mr. W. S. O'Brien, Director
Environmental & Licensing Affairs
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33516

BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

Dear Mr. O'Brien:

Re: Pinellas County - AP
Bartow Unit One - Fly Ash System

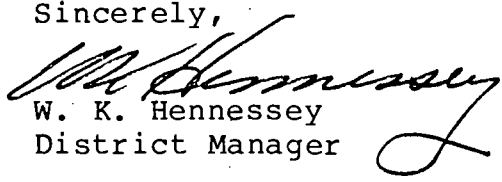
Enclosed is Permit Number A052-71879 dated 8/4/83, to operate the subject pollution source, issued pursuant to Section 403.061(14), Florida Statutes.

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

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

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

Sincerely,


W. K. Hennessey
District Manager

WKH/scm

Enclosures

cc: PCDEM

Rusty Wooten

Thomas W. Reese

DER Form 17-1.201(7)

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

PERMITTEE:

Mr. W. S. O'Brien, Director
Environmental & Licensing Affairs
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

PERMIT/CERTIFICATION

Permit No.: A052-71879
County: Pinellas
Expiration Date: 7/1/88
Project: Florida Power Corp.
Bartow Unit One - Fly Ash
System

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 the fly ash storage silo equipped with a Flakt, Inc. Model 90-WKE-16 dust collector. The control device is designed to be 99.9% efficient.

Location: Weedon Island in Pinellas County

UTM: 17-342.3E 3082.7N NEDS NO: 0011 Point ID: 09

Replaces Permit No.: AC52-36102

PERMITTEE: Permit/Certification No.: A052-71879
Florida Power Corporation Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

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.

PERMITTEE:
Florida Power Corp.

Permit/Certification Number: A052-71879
Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as maybe required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purposes of;

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

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

c. Sampling or monitoring any substances or parameters at any location reasonably necessary to assure compliance with this permit or department rules.

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

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:

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

(b) the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

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

PERMITTEE: Permit/Certification No: A052-71879
Florida Power Corporation Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

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

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

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

PERMITTEE: Permit/Certification No.: A052-71879
Florida Power Corporation Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

14. (con't)

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

c. Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS:

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

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

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

PERMITTEE:

PERMIT/CERTIFICATION NO.: A052-71879

Florida Power Corporation Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

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

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

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

4. The maximum allowable particulate emissions for this baghouse shall not exceed 1.0 lbs/hr. and 0.35 tons/yr. This emission limitation has been requested by the Permittee in order to qualify for the R.A.C.T. exemption specified in Subsection 17-2.650(2)(b)(3), F.A.C.

5. Because of the expense and complexity of conducting a stack test on minor sources of particulate matter, the Department pursuant to the authority granted under Subsection 17-2.700(3)(d), F.A.C. hereby waives the requirement for a stack test. The alternative standards set forth by this provision establishes a visible emission limitation not to exceed an opacity of 5%. Visible emission tests shall be conducted in accordance with EPA Method 9.

6. Should the Department have reason to believe the particulate emission standard is not being met, the Department may require that compliance with the particulate emission standards be demonstrated by testing in accordance with Section 17-2.700, F.A.C.

PERMITTEE:

PERMIT/CERTIFICATION NO.: A052-71879

Florida Power Corporation Project: Florida Power Corporation
Bartow Unit One - Fly Ash System

SPECIFIC CONDITIONS (cont'd)

7. All reasonable precautions shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.

Issued this 4th day of August,
1983.

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION



W. K. Hennessey
District Manager

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

PART II
FORMAL PROCEEDINGS

28-5.201 Initiation of Formal Proceedings.

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

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

MEMORANDUM

TO: FILE *WST 1/14/94*

THROUGH: BILL THOMAS, P.E.

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

FROM: GEORGE RICHARDSON

DATE: January 13, 1994

SUBJECT: Pinellas County - AP
Permit Amendment
Florida Power Corporation
Bartow Plant Unit No. 1 Fly Ash System
AO52-232464

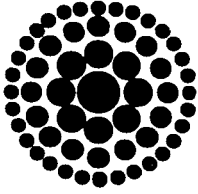
The Department received a request dated 9/14/93 from Florida Power to amend the above referenced air operating permit which was issued on 8/30/93.

The first amendment is to correct the manufacturer's name of the baghouse from: Flakt, Inc. to Flakt/Flex Kleen, Inc.

The second amendment is to change the test date from: test annually within 60 days prior to March 16 to test annually within 60 days prior to May 1.

The third amendment is to replace the existing O & M Plan with the O & M Plan submitted on 9/14/93.

The PCDEM and I recommend this Notice of Permit Amendment be issued.



**Florida
Power**
CORPORATION

September 14, 1993

Dr. Richard Garrity
Florida Department of Environmental Protection
Southwest District
3804 Coconut Palm Dr.
Tampa, Florida 33619

RECEIVED
SEP 17 1993

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

Dear Dr. Garrity:

Re: Renewal of Air Permit for Florida Power Corporation Bartow Unit 1 Fly Ash System
(Permit No. AO52-232464)

On September 1, 1993, Florida Power Corporation (FPC) received from the Department a renewed air permit for the above-referenced facility. This letter serves to transmit FPC's comments on the air operating permit renewal.

On page 1 of 4, the DEP made several changes in the description of the fly ash and storage silo system. Apparently, these changes are reflective of additional information submitted on these systems by FPC in fulfillment of the DEP's RACT O&M requirement. The second paragraph currently reads as follows: "Emissions from the storage silo are controlled by a Flakt, Inc. Model 90-UKE-16 Arrangement II baghouse having a set of 16 filter bags." This sentence should be revised to read: "Emissions from the storage silo are controlled by a Flakt/Flex Kleen, Inc. Model 90-UKE-16 baghouse having a set of 16 filter bags."

Specific Condition 4 currently states that the fly ash system storage silo shall be tested for visible emissions annually within 60 days *prior* to March 16. FPC requests that the wording be changed to state "within 60 days *of* March 16."

Finally, FPC has attached a revised O&M plan for inclusion in the permit. The only changes made were to revise the permit number in the title heading of the O&M Plan and to clean up the tabular format on the maintenance frequency section.

Dr. Garrity
Page 2
September 14, 1993

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

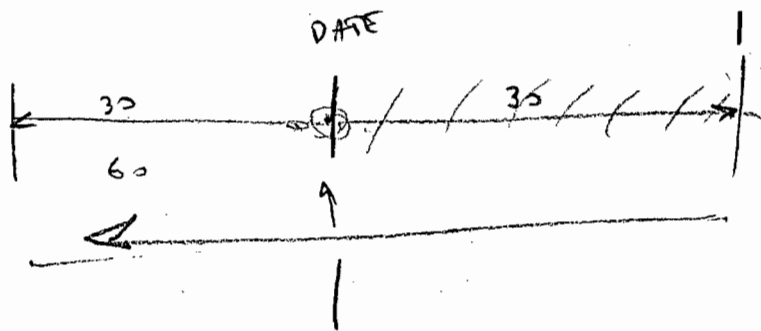
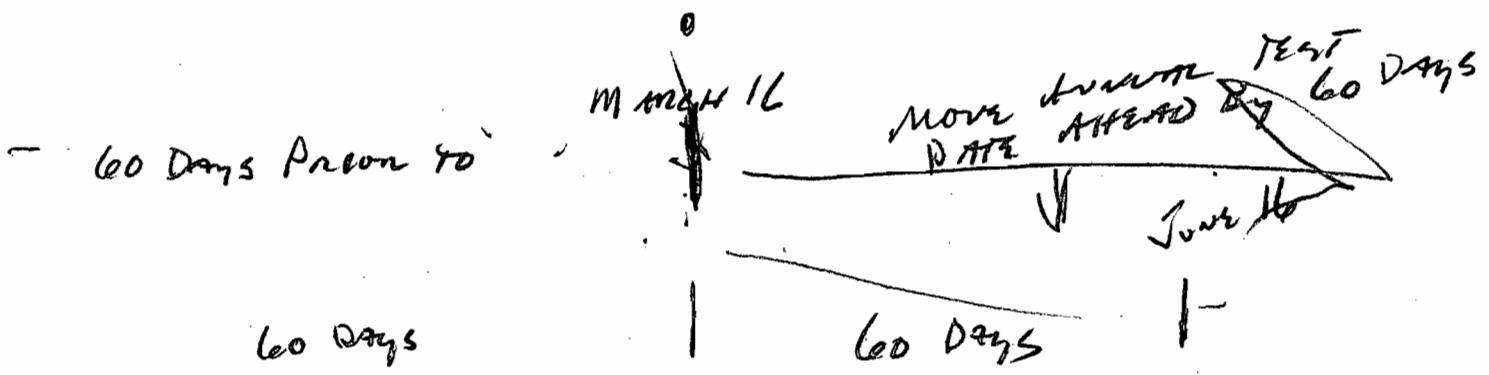
Sincerely,



Scott H. Osbourn
Senior Environmental Engineer

Attachment

cc: George Richardson, Southwest District DEP
Gary Robbins, Pinellas County
Al Morneault, P.E., FPC



MEMORANDUM

TO: FILE

THROUGH: BILL THOMAS, P.E.

THROUGH: HARRY KERNS, P.E.

FROM: GEORGE RICHARDSON *GR*

DATE: August 30, 1993

SUBJECT: Pinellas County - AP
Florida Power Corporation
Bartow Plant Unit No. 1
Fly Ash System
AO52-232464

This permit is for the operation of the Bartow Plant Unit No. 1 Fly Ash System located at Weedon Island, St. Petersburg, Pinellas County.

A maximum of 4,000 pounds per hour of fly ash is transferred from the Electrostatic Precipitator to a fly ash storage silo. Emissions from the silo are controlled by a baghouse.

This source was tested for visible emissions on March 16, 1993 and it was in compliance.

I recommend this permit be issued as conditioned.

Day 0 is Tuesday 8/31/93. I have not received comments from the PCDEM.

APPLICATION TRACKING SYSTEM

AUG 30 1993 06/08/93

APPL NO:232464

APPL RECVD:06/04/93 TYPE CODE:AD SUBCODE:2B LAST UPDATE:06/08/93

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

DER PROCESSOR: *AIR Richardson*

APPL STATUS:AC DATE:06/04/93 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N OGC HEARING REQUESTED LAT/LONG:27.51.39/82.36.03
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:___,___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:_____
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:_____

PROJECT SOURCE NAME:BARTOW UNIT 2 FLY ASH SYSTEM

STREET:WEEDON ISLAND CITY:ST. PETERSBURG

STATE:FL ZIP:_____ PHONE:_____

APPLICATION NAME:FLORIDA POWER CORPORATION

STREET:P.O. BOX 14042 CITY:ST. PETERSBURG

STATE:FL ZIP:33733 PHONE:813-866-4523

AGENT NAME:J.A. HANCOCK

STREET:P.O. BOX 14042 CITY:ST. PETERSBURG

STATE:FL ZIP:33733 PHONE:813-866-4524

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

B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE - - - ___/___/___
C DATE DER SENT DNR APPLICATION/SENT DNR INTENT - - - ___/___/___
D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP. - - - ___/___/___
E DATE #1 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #2 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #3 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #4 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #5 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
E DATE #6 ADDITIONAL INFO REQ--REC FROM APPLICANT - - - ___/___/___
F DATE LAST 45 DAY LETTER WAS SENT - - - ___/___/___
G DATE FIELD REPORT WAS REQ--REC - - - ___/___/___
H DATE DNR REVIEW WAS COMPLETED - - - ___/___/___
I DATE APPLICATION WAS COMPLETE - - - 6/14/93
J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS - - - ___/___/___
K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT - - - ___/___/___
L DATE PUBLIC NOTICE WAS SENT TO APPLICANT - - - ___/___/___
M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED - - - ___/___/___
N WAIVER DATE BEGIN--END (DAY 90) - - - ___/___/___

COMMENTS:

PERMIT APPLICATION FEE/ASSIGNMENT SHEET

APPLICATION TYPE Renewal | FILE/PROCESSING NO. A 052-232464
 COMPANY Florida Power COUNTY Pinellas
 SOURCE DESCRIPTION/COMMENTS Bartow Unit 1 Fly Ash System
 DATE APPL. REC'D (Day 1): 6-4
 CHECK ATTACHED: Y N APPLICATION SUB TYPE CODE 213
 Not Required () No fee req'd - Title U
 FEE SUBMITTED: (correct () incorrect - Should Be \$ zero
 Submitted \$ zero
 Needed/Refund \$ _____
 FEE CHECKED BY: A.K. DATE 6-7
 APPLICATION ASSIGNED TO: _____ DATE _____

*DAM @ 15 8/31/93
 plus ASAP*

PERMIT APPLICATION PROCESSING STATUS

	<u>Completed</u>	<u>Initials</u>
Date PATS Updated With Processor Name:	_____	_____
Date AC Logged By Section Secretary:	_____	_____
Permit Engineer Submit Finished Permit Package & Recommendations to District Air Engineer:	<u>8-30-93</u>	<u>am</u>
Permit Package to District Air Administrator:	<u>8-30-93</u>	<u>AK</u>
Permit Package to Director of District Management:	<u>8/30/93</u>	<u>[Signature]</u>
Permit Package Mailed Out:	<u>AUG 30 1993</u>	<u>VSA</u>

DATA FOLLOW UP

Issue Date Updated on PATS: AUG 30 1993 VSA
 Updated on Wang: _____



**Florida
Power**
CORPORATION

D.E.R.

JUN 07 1993

SOUTHWEST DISTRICT
TAMPA

June 3, 1993

Dr. Richard Garrity
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619-8318

Dear Dr. Garrity:

Re: Renewal of Bartow Plant Fly Ash System Air Operation Permit (No. AO52-149203)

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Air Quality Division, dated April 30, 1993, providing notification that the above-referenced permit is due to expire on August 2, 1993.

Enclosed please find three copies of the air operation permit renewal application, along with a Professional Engineer Certification form. One copy of these forms has also been sent to the Pinellas County Division of Air Quality. In addition, as required by Pinellas County Ordinance 89-70 Section 3 Part 2.230(1)&(2) (adopted January 2, 1990), FPC has drafted and enclosed an Operation and Maintenance (O&M) Plan pertaining to the fly ash system.

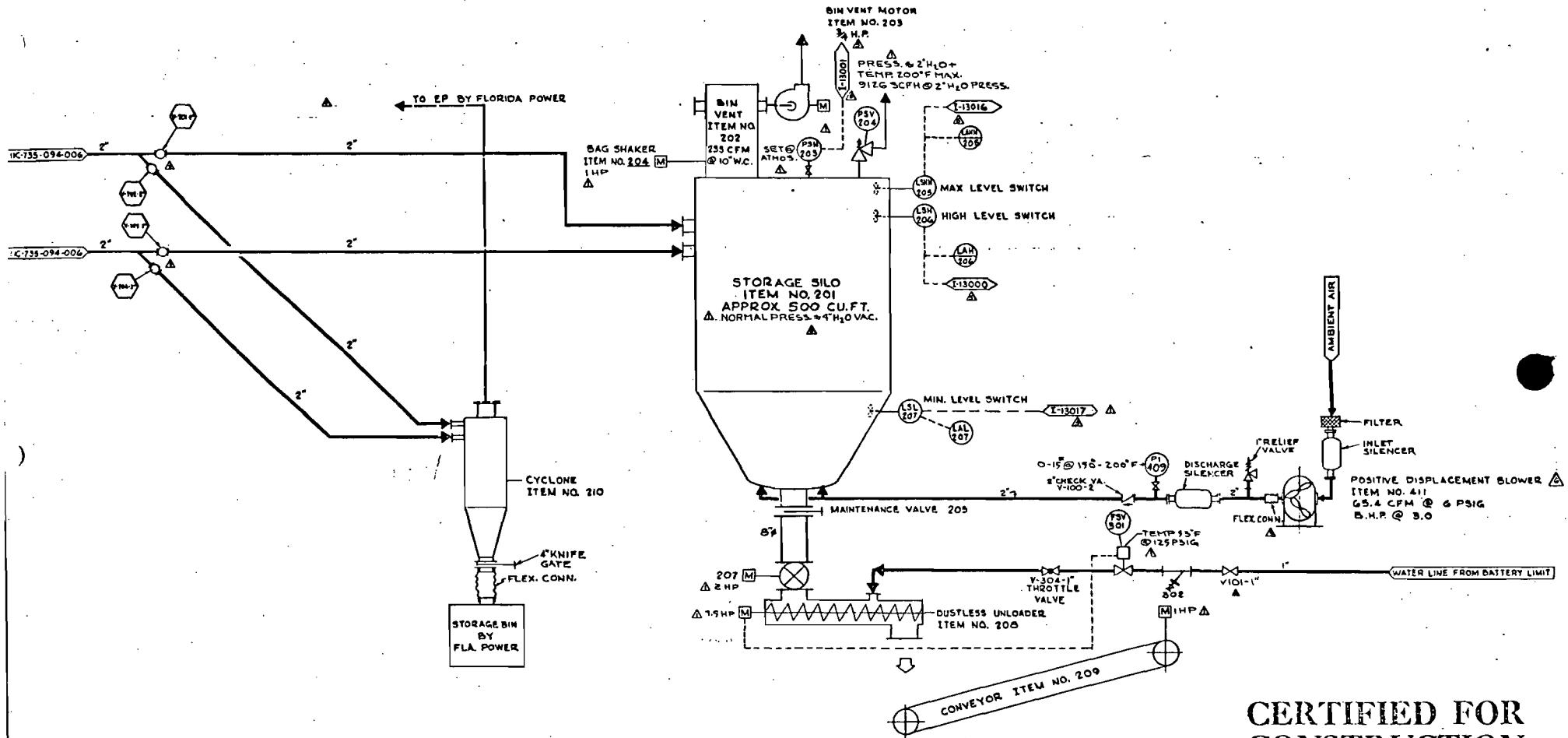
If you should have any questions or need further information, please do not hesitate to contact me at (813)866-5158.

Sincerely,

Scott H. Osbourn
Senior Environmental Engineer

Enclosure

cc: Gary Robbins, Pinellas County Air Quality Division

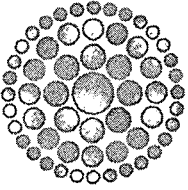


CERTIFIED FOR CONSTRUCTION

NOTE: TO DEPAC CONTROL INTERLOCK SYSTEM

6	BLOWER ITEM NO. WAS 410	7/1/59	JJA
5	ADDED INTERLOCK NET. FROM DEPAC	7/1/59	JJA
4	CHANGED LEVEL SWITCHES	7/1/59	JJA
3	DELIVERED MAT. ITEM NO. 201	7/1/59	JJA
2	REVIEWED BLOWER SYSTEM FROM BLOWER ITEM NO. 411	7/1/59	JJA
1	ISSUED FOR CONSTRUCTION	7/1/59	JJA
0	FOR APPROVAL	7/1/59	JJA
REV	REVISION	DATE	BY

ITEM	QUANTITY	DESCRIPTION	FIG. NO. OR DIM.	MATERIAL	REMARKS
Flakt, INC.					
FLORIDA POWER CORPORATION					
COM PROJECT - BARTOW STA. UNIT NO.					
FLAKT DEPAC™ SYSTEM					
PIPING & INSTRUMENTATION DIAGRAM					
PROJECT NO.	735-094	DATE	7/1/59		
CONTRACT NO.	C-161-735-094	SCALE	1" = 1'-0"		
ORDER NO.	P.O. # 41174	REVISIONS	1		
REFERENCE Dwg.	35-0	REVISED			
NEXT ASSEMBLY		DATE			
AC-11C-735-094-007					6



**Florida
Power**
CORPORATION

September 15, 1988

Mr. Rama Iyer
Florida Department of Environmental Regulation
Southwest District
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Dear Mr. Iyer:

Subject: Comments - Permit A052-149203
Bartow Unit 1 - Fly Ash System

A review of the above subject permit has been made and the following comments rendered:

Page 1 of 4 - second paragraph:

The design capacity of the system is ~~4000~~ 4300 lbs/hour.
Emissions are controlled with a Flakt, Inc., Model ~~90-WKE-16~~
90-UKE-16 Arrangement II baghouse rated at ~~5~~ ACFM-235 CFM.

Reasons for the change:

The Flakt baghouse is designed to handle a higher rate than originally stated in construction. See attached drawing No. AC-11C-735-094-007. The vent has a capacity of 235 CFM.

Page 2 of 4 - Specific Condition No. 2

The design capacity is ~~4000~~ 4300 lbs/hour.

It is requested that the above comments be evaluated and corrections be made on this permit. Should further discussion be necessary, feel free to call me at (813)866-4544 or Mr. A. W. Morneault of my staff at (813)866-5162.

Sincerely,

R. E. Parnelle

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

REP/bm

SEP 16 1988

**SOUTH WEST DISTRICT
TAMPA**



David L. Miller
Senior Vice President
Corporate Services

February 9, 1993

D.E.R.
JUN 04 1993
SOUTHWEST DISTRICT
TAMPA

TO WHOM IT MAY CONCERN

Subject: Letter of Authorization

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

Sincerely,

David L. Miller

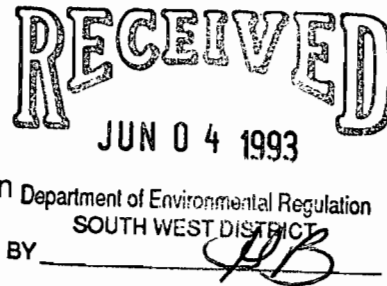
DLM:mlp



**Florida
Power**
CORPORATION

June 3, 1993

Dr. Richard Garrity
Florida Department of Environmental Protection
Southwest District Office
3804 Coconut Palm Drive
Tampa, Florida 33619-8318



Dear Dr. Garrity:

Re: Renewal of Bartow Plant Fly Ash System Air Operation Permit (No. AO52-149203)

Florida Power Corporation (FPC) is in receipt of a letter from the Pinellas County Air Quality Division, dated April 30, 1993, providing notification that the above-referenced permit is due to expire on August 2, 1993.

Enclosed please find three copies of the air operation permit renewal application, along with a Professional Engineer Certification form. One copy of these forms has also been sent to the Pinellas County Division of Air Quality. In addition, as required by Pinellas County Ordinance 89-70 Section 3 Part 2.230(1)&(2) (adopted January 2, 1990), FPC has drafted and enclosed an Operation and Maintenance (O&M) Plan pertaining to the fly ash system.

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

Sincerely,

Scott H. Osbourn
Senior Environmental Engineer

Enclosure

cc: Gary Robbins, Pinellas County Air Quality Division

MEMORANDUM

TO: File

THRU: Harry Kerns
Jim McDonald *gm* 8-3-88

FROM: Rama Iyer *RI*

DATE: August 2, 1988

SUBJECT: Issuance of Permit No. A052-149203 to
Florida Power Corporation

The PCDEM and I have reviewed the information received with respect to the above and recommend the permit be issued.

The source, located on Weedon Island, Pinellas County, is a pneumatic system and silo that collects and stores fly ash coming from an electrostatic precipitator connected to the stack of a fossil fuel boiler. Emissions are controlled with a Flakt, Inc., Model 90-WKE-16 baghouse.

A visible emissions test was conducted on March 16, 1988 and was satisfactory.

This is a renewal and A052-149203 replaces A052-71879.

RI/mbq

PERMIT APPLICATION STATUS SHEET

COMPANY: Florida Power Corporation

PROCESSOR: Rama Iyer

PERMIT NO. A052-149203

DATE RECEIVED: 5/9/88

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

CHECK: Y/N Y

day is 08-05-88 Friday

	DATE TASK COMPLETED	INITIALS
DATE REC'D BY SECTION:	<u>5/12/88</u>	<u>MQ</u>
LOGGING BY SEC'Y	<u>5/13/88</u>	<u>MQ</u>
Permitting Eng'r submit finished permit package & recommendations to supervisor.	<u>08-02-88</u>	<u>RTIyer</u>
Permit Package to Dist. Engr.	<u>8-4-88</u> <u>8-5-88</u>	<u>pm</u> <u>MC</u>
Permit Package to Dist. Mgr.	<u>8/5/88</u>	<u>MQ</u>
Permit Package Mailed out:	<u>AUG 5 1988</u>	<u>MQ</u>

DATA FOLLOW-UP

Issue Date Updated on PATS:	<u>AUG 5 1988</u>	<u>MQ</u>
Updated on WANG:	<u>AUG 5 1988</u>	<u>MQ</u>

APPLICATION TRACKING SYSTEM

AUG 5 1988

05/12/88

APPL NO:149203

APPL RECVD:05/09/88 TYPE CODE:A0 SUBCODE:07

LAST UPDATE:05/11/88

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

DER PROCESSOR:MCDONALD EYER gm

APPL STATUS:AC DATE:05/09/88 (ACTIVE/DENIED/WITHDRAWN/EXEMPT/ISSUED/GENERAL)

RELIEF:___ (SSAC/EXEMPTIONS/VARIANCE)

(Y/N) N MANUAL TRACKING DISTRICT:40 COUNTY:52
(Y/N) N DNR REVIEW REQD? LAT/LONG:27.51.39/82.36.03
(Y/N) N PUBLIC NOTICE REQD? BASIN-SEGMENT:___
(Y/N) N GOV BODY LOCAL APPROVAL REQD? COE #:___
(Y/N) Y LETTER OF INTENT REQD? (I/ISSUE D/DENY) ALT#:___

PROJECT SOURCE NAME:FLY ASH STORAGE SILO

STREET:WEEDON ISLAND CITY:ST. PETERSBURG

STATE:FL ZIP:___ PHONE:___

APPLICATION NAME:FLORIDA POWER CORPORATION

STREET:P.O. BOX 14042 CITY:ST. PETERSBURG

STATE:FL ZIP:33733 PHONE:813-866-4523

AGENT NAME:J.A. HANCOCK

STREET:P.O. BOX 14042 CITY:ST. PETERSBURG

STATE:FL ZIP:33733 PHONE:813-866-4524

FEE #1 DATE PAID:05/09/88 AMOUNT PAID:00100 RECEIPT NUMBER:00122474

Table with columns for event type (B-N), date, and status. Rows include: B DATE APPLICANT INFORMED OF NEED FOR PUBLIC NOTICE, C DATE DER SENT DNR APPLICATION/SENT DNR INTENT, D DATE DER REQ. COMMENTS FROM GOV. BODY FOR LOCAL APP., E DATE #1-6 ADDITIONAL INFO REQ--REC FROM APPLICANT, F DATE GOVERNING BODY REQUESTED SURVEY RESULTS/REPORTS, G DATE FIELD REPORT WAS REQ--REC, H DATE DNR REVIEW WAS COMPLETED, I DATE APPLICATION WAS COMPLETE, J DATE GOVERNING BODY PROVIDED COMMENTS OR OBJECTIONS, K DATE NOTICE OF INTENT WAS SENT--REC TO APPLICANT, L DATE PUBLIC NOTICE WAS SENT TO APPLICANT, M DATE PROOF OF PUBLICATION OF PUBLIC NOTICE RECEIVED, N WAIVER DATE BEGIN--END (DAY 90)

COMMENTS:

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

No 122474

RECEIPT FOR APPLICATION FEES AND MISCELLANEOUS REVENUE

Received from Florida Power Date 5/9/88

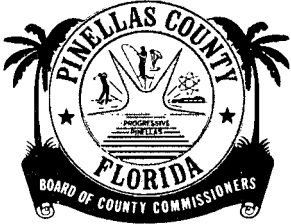
Address PO Box 14042 St Pete Dollars \$ 100.00

Applicant Name & Address Same

Source of Revenue Fossil Fuel Steam Generator Unit 1

Revenue Code 1030 Application Number A050-~~149726~~

cf 997850 By Alvin King 149203



BOARD OF COUNTY COMMISSIONERS

PINELLAS COUNTY, FLORIDA

315 COURT STREET

CLEARWATER, FLORIDA 34616

COMMISSIONERS

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

June 2, 1988

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

RE: Florida Power Corporation, Permit# A052-149203 (Replaces
Permit# A052-71879); Flyash Storage Silo.

Mr. Iyer:

This office has reviewed the APPLICATION FOR RENEWAL OF PERMIT TO OPERATE AIR POLLUTION SOURCE(S) and the permit files for the above mentioned facility. The renewal application is deemed complete. Pinellas County recommends that an operating permit for the fossil fuel steam generator be issued. The recommended permit conditions are attached.

Sincerely,

Gary Robbins, Environmental Engineer
Air Quality Division

GR/0573E *GR*
Info per call

AL MORNEAULT, 866-5162
1) 5 ACFM? is 5 ACFM, (the silo is a small one.)
2) LAT VE? March 16, 1988

APPLICANT:

Florida Power Corporation
Post Office Box 14042
St. Petersburg

PERMIT/CERTIFICATION

No. A052-149203
County: Pinellas
Expiration Date:
Project: Flyash Storage
Silo

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

For the operation of a flyash storage silo equipped with a Flakt, Inc. Model 90-WKE-16 dust collector. The control device is designed to be 99.9% efficient.

Located at Weedon Island, Pinellas County: Florida

UTM: 17-342.3 E 3082.7 N NEDS No.: 0011 Point ID: 09

Replaces Permit No.: A052-71879

SPECIFIC CONDITIONS:

1. A part of this permit is the attached 15 General Conditions.
2. The maximum allowable particulate emissions for this dust collector shall not exceed 1.0 pounds/hour and 0.35 tpms/year. This emission limitation has been requested by the Permittee in order to qualify for the RACT exemption specified in Subsection 17-2.650(2)(b)(3), F.A.C..
3. Visible emissions for pneumatic loading of the cement silo shall not be equal to or greater than 20% opacity in accordance with Subsection 17-2.610(2)(a), F.A.C..
4. Compliance with the emission limitations of Specific Conditions# 2 and 3 shall be determined using EPA Methods 1,2,3,4,5 and 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.
5. Test the emissions for the following pollutant(s) at intervals of 12 months from the date of 3/10/88 and submit a copy of test data to the Air sections of the Southwest District of the Department of Environmental Regulation and Pinellas County Environmental Management within 15 days of such testing, Chapter 17-2.700 (2), Florida Administrative Code (F.A.C.).

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

6. The maximum allowable emission rate for particulate matter for this source is set by the Process Weight Table contained in Section 17-2.610(1), F.A.C.. Because of the expense and complexity of conduction a stack test on minor sources of particulate matter, the Department pursuant to the authority granted under Subsection 17-2.700(3)(d), F.A.C. hereby waives the requirement for a stack test. The alternative standard set forth by this provision establishes a visible emission limitation not to exceed an opacity of 0% (5%) for pneumatic loading of the cement silo.
7. Testing of emissions must be accomplished while Bartow Unit# 1 and the Electrostatic precipitator are operating at $\pm 10\%$ of design capacity. 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.]. *alteration plus? ambiguity*
8. Should the Department or the Pinellas County Department of Environmental Management have reason to believe the particulate emission standard is not being met, the Department or the Pinellas County Department of Environmental Management may require that compliance with the particulate emission standards be demonstrated by testing in accordance with Section 17-2.700, F.A.C..

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

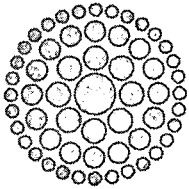
A copy of this report shall be submitted to the Air Section of the Southwest District Office and Pinellas County Department of Environmental Management.

11. All reasonable precaution shall be taken to prevent and control generation of unconfined emissions of particulate matter in accordance with the provision in Section 17-2.610(3), F.A.C.. These provisions are applicable to any source, including, but not limited to, vehicular movement, transportation of materials, construction, alteration, demolition or wrecking, or industrial related activities such as loading, unloading, storing and handling.
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 ____ day of _____
19 ____

STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL REGULATION

Richard D. Garrity, Ph.D.
District Manager



**Florida
Power**
CORPORATION

May 5, 1988

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

Dear Dr. Garrity:

Re: Bartow Unit 1, Permit No. A052-63210
Bartow Unit 1 Fly Ash System; Permit No. A052-71879

Enclosed are three copies of applications to renew the above cited permits. Also enclosed are two checks for the filing fees as set forth in FAC 17-4.05.

If you have any questions, please contact Mr. Al Morneault at (813)866-5162.

Sincerely,

R. E. Parnelle, P.E.
Environmental and Licensing Affairs

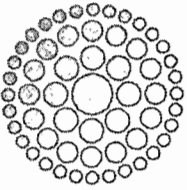
REP/bm
Attachments

cc: Mr. Peter Hessling

D. E. R.

MAY 09 1988

**SOUTH WEST DISTRICT
TAMPA**



**Florida
Power**
CORPORATION

August 4, 1988

Mr. Rama Iyer
Florida Department of Environmental Regulation
4520 Oak Fair Boulevard
Tampa, Florida 33610-7347

Dear Mr. Iyer:

Subject: Source Test Report - Bartow Plant

Enclosed please find, per your request, a copy of the Source Test Report for Bartow Plant prepared for Florida Power Corporation March 16, 1988.

If you need any further assistance, please let me know. I can be reached at (813)866-4544.

Sincerely,

R. E. Parnelle, P.E.
Environmental and Licensing Affairs

REP/bm
Enclosure

RECEIVED
AUG 05 1988
SOUTH WEST DISTRICT
TAMPA

ESE ENVIRONMENTAL SCIENCE AND ENGINEERING, INC.

VISIBLE EMISSION OBSERVATION FORM

SOURCE NAME FPC Fly Ash System			OBSERVATION DATE 3-16-88				START TIME 0825		STOP TIME 0855										
ADDRESS FPC BARNOW PLANT Weeden Drive on Weeden Island P.O. Box 14042			MIN	SEC	0	15	30	45	MIN	SEC	0	15	30	45					
CITY St. Pete		STATE Fl.	ZIP 33733		1	0	0	0	0	31									
PHONE 813-576-1405		SOURCE ID NUMBER Fly Ash - BAW			2	0	0	0	0	32									
PROCESS EQUIPMENT Barnowse System		OPERATING MODE N/A			3	0	0	0	0	33									
CONTROL EQUIPMENT Barnowse		OPERATING MODE N/A			4	0	0	0	0	34									
DESCRIBE EMISSION POINT START 2'x2' Metal Stack STOP ✓				5	0	0	0	0	0	35									
HEIGHT ABOVE GROUND LEVEL START ~30' STOP ✓		HEIGHT RELATIVE TO OBSERVER START ~30' STOP ✓		6	0	0	0	0	0	36									
DISTANCE FROM OBSERVER START ~150' STOP ✓		DIRECTION FROM OBSERVER START SSW STOP ✓		7	0	0	0	0	0	37									
DESCRIBE EMISSIONS START NONE STOP ✓				8	0	0	0	0	0	38									
EMISSION COLOR START NONE STOP ✓		PLUME TYPE: CONTINUOUS <input type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>		9	0	0	0	0	0	39									
WATER DROPLETS PRESENT: NO <input type="checkbox"/> YES <input type="checkbox"/>		IF WATER DROPLET PLUME: ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>		10	0	0	0	0	0	40									
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START 2' after stack exit STOP ✓				11	0	0	0	0	0	41									
DESCRIBE BACKGROUND START Sky STOP ✓				12	0	0	0	0	0	42									
BACKGROUND COLOR START Blue STOP ✓		SKY CONDITIONS START Clear STOP ✓		13	0	0	0	0	0	43									
WIND SPEED START 3-5 mph STOP ✓		WIND DIRECTION START NNE STOP ✓		14	0	0	0	0	0	44									
AMBIENT TEMP. START 52 STOP 53		WET BULB TEMP. RH. percent		15	0	0	0	0	0	45									
<p>Source Layout Sketch Draw North Arrow</p> <p>Sun → Wind → Plume and Stack</p> <p>Observers Position</p> <p>Sun Location Line</p> <p>140°</p> <p>Emission Point</p>				16	0	0	0	0	0	46									
				17	0	0	0	0	0	0	47								
				18	0	0	0	0	0	0	48								
				19	0	0	0	0	0	0	49								
				20	0	0	0	0	0	0	50								
				21	0	0	0	0	0	0	51								
				22	0	0	0	0	0	0	52								
				23	0	0	0	0	0	0	53								
				24	0	0	0	0	0	0	54								
				25	0	0	0	0	0	0	55								
26	0	0	0	0	0	0	56												
27	0	0	0	0	0	0	57												
28	0	0	0	0	0	0	58												
29	0	0	0	0	0	0	59												
30	0	0	0	0	0	0	60												
AVERAGE OPACITY FOR HIGHEST PERIOD				0				NUMBER OF READINGS ABOVE % WERE				0							
RANGE OF OPACITY READINGS				MINIMUM				0				MAXIMUM				0			
OBSERVER'S NAME (PRINT)				Charles Reshard															
COMMENTS				OBSERVER'S SIGNATURE						DATE									
				Charles Reshard						3-16-88									
				ORGANIZATION															
				Env. Sci. + Eng															
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS				CERTIFIED BY				DATE											
SIGNATURE				Eastern Technical Assoc				3-8-88											
TITLE				DATE				VERIFIED BY				DATE							
								J.W. King				3-1-88							

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

D. E. R.

FACILITY: Florida Power Corporation		DISTRICT: FEB 9 1987 SOUTHWEST SOUTH WEST DISTRICT	COUNTY: PINELLAS
ADDRESS: Paul Bartow Plant - Weedon Island St. Petersburg, FL 33733		CONTACT: TAMPA Mr. Ken Roy	
APIS NO.: 40TPA52001109	PERMIT NO.: AO52-71879	EXPIRATION DATE: 7/1/88	

SOURCE DESCRIPTION:
Steam Boiler #1 Fly Ash handling system, silo and dust collector.

INSPECTION DATE: 1/7/87	AUDIT TYPE: 2 - Major	COMPLIANCE STATUS: In Compliance
----------------------------	--------------------------	-------------------------------------

INSPECTION COMMENTS/RECOMMENDATIONS:

AO52-71879 - Fly ash handling system for steam boiler No. 1. Emissions controlled by a Flakt Inc. Model 90 WKE 1B dust collector.

Unit was tested for visible emissions during transfer of Fly Ash (6 min. intervals) from Steam Boiler No. 1.

Average opacity during the worst six minutes of operation was 0%.

Unit is in compliance.

INSPECTOR(S) NAME(S):
ERIC FEHRMANN, Pinellas County Air Quality Division

SIGNATURE(S):
Eric Fehrmann

DATE:
1/8/87

(0034) (h)

APIS UPDATED? 9.7

Visible Emission Observation Form

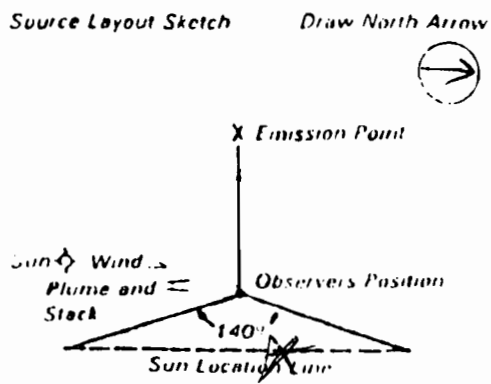
SOURCE NAME			OBSERVATION DATE				START TIME		STOP TIME			
Florida Power Corp			11/7/87				11:15		11:45			
ADDRESS			STC		MIN		STC		MIN		MIN	
Bartow Plant -			0		15		0		0		45	
Weedon Is.			1		0		31					
CITY		STATE	ZIP		2		32					
St. Petersburg		FL	33733		3		33					
PHONE		SOURCE ID NUMBER		4		34						
228-1000		A052-71879		5		35						
PROCESS EQUIPMENT		OPERATING MODE		6		36						
Fly Ash Silo		Continuous		7		37						
CONTROL EQUIPMENT		OPERATING MODE		8		38						
Baghouse		Continuous		9		39						
DESCRIBE EMISSION POINT			10		40							
START Baghouse vent STOP Same			11		41							
HEIGHT ABOVE GROUND LEVEL		HEIGHT RELATIVE TO OBSERVER		12		42						
START 30' STOP 30'		START 30' STOP 30'		13		43						
DISTANCE FROM OBSERVER		DIRECTION FROM OBSERVER		14		44						
START 120' STOP 120'		START W STOP W		15		45						
DESCRIBE EMISSIONS			16		46							
START None STOP			17		47							
EMISSION COLOR		PLUME TYPE		18		48						
START N/A STOP		CONTINUOUS (X) PULSING () INTERMITTENT ()		19		49						
WATER DROPLETS PRESENT		IF WATER DROPLET PLUME		20		50						
NONE () YES (X)		ATTACHED () DETACHED (X)		21		51						
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED			22		52							
START 2' from vent STOP Same			23		53							
DESCRIBE BACKGROUND			24		54							
START Clouds STOP Clouds			25		55							
BACKGROUND COLOR		SKY CONDITIONS		26		56						
START Gray/white STOP		START 100% CC STOP		27		57						
WIND SPEED		WIND DIRECTION		28		58						
START 0-3 STOP		START NE STOP		29		59						
AMBIENT TEMP		WET BULB TEMP		30		60						
START 75° STOP				31		61						
<p>Source Layout Sketch Draw North Arrow</p>			32		62							
			33		63							
			34		64							
			35		65							
			36		66							
AVERAGE OPACITY FOR 6" HIGHEST PERIOD			37		67		NUMBER OF READINGS ABOVE		38			
0%			38		68		5% WHEE		39			
RANGE OF OPACITY READINGS			39		69		MINIMUM		40			
MINIMUM 0%			40		70		MAXIMUM		41			
MAXIMUM 0%			41		71		OBSERVER'S NAME (PRINT)		42			
ERIC FEHRMANN			42		72		OBSERVER'S SIGNATURE		43			
DATE			43		73		DATE		44			
11/7/87			44		74		ORGANIZATION		45			
PINELLAS COUNTY AIR QUALITY DIVISION			45		75		CERTIFIED BY		46			
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS			46		76		DATE		47			
SIGNATURE			47		77		VERIFIED BY		48			
ETA/DER			48		78		DATE		49			
9/86			49		79		TITLE		50			
DATE			50		80		DATE		51			
			51		81				52			

BEST AVAILABLE COPY
INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

FACILITY FLORIDA POWER CORP. Paul Bartow Plant		DISTRICT Southwest	COUNTY Pinellas
ADDRESS weelon Is. St. Petersburg		CONTACT Phil Watkins	
APIS # 40TPA52001109	PERMIT # A052-71879	EXPIRATION DATE 7/1/88	
SOURCE DESCRIPTION Steam unit #1 Fly Ash Handling System, silo and dust collector			
INSPECTION DATE 7/11/86	AUDIT TYPE 2-Major	COMPLIANCE STATUS In Compliance	
INSPECTION COMMENTS/RECOMMENDATIONS			
<p>A052-71879 - Fly ash handling system for steam boiler #1. Fly Ash storage silo controlled by Flakt, Inc. Model 90WKE 16 Bag dust collector.</p> <p>The unit was tested for visible emissions by EPA method 9.</p> <p>Average opacity during the worst six minutes of operation was 0%.</p>			
INSPECTOR(S) NAME(S) E. Fehrmann			
SIGNATURE(S) E. Fehrmann		DATE 7/11/86	

Visible Emission Observation Form

SOURCE NAME		OBSERVATION DATE				START TIME		STOP TIME			
Florid Power - Barton Plant		7/11/86				10:20		10:50			
ADDRESS		SEC				SEC					
Weedan Is.		MIN	0	15	30	45	MIN	0	15	30	45
		1	0	0	0	0	31				
		2	0	0	0	0	32				
		3	0	0	0	0	33				
		4	0	0	0	0	34				
		5	0	0	0	0	35				
		6	0	0	0	0	36				
		7	0	0	0	0	37				
		8	0	0	0	0	38				
		9	0	0	0	0	39				
		10	0	0	0	0	40				
		11	0	0	0	0	41				
		12	0	0	0	0	42				
		13	0	0	0	0	43				
		14	0	0	0	0	44				
		15	0	0	0	0	45				
		16	0	0	0	0	46				
		17	0	0	0	0	47				
		18	0	0	0	0	48				
		19	0	0	0	0	49				
		20	0	0	0	0	50				
		21	0	0	0	0	51				
		22	0	0	0	0	52				
		23	0	0	0	0	53				
		24	0	0	0	0	54				
		25	0	0	0	0	55				
		26	0	0	0	0	56				
		27	0	0	0	0	57				
		28	0	0	0	0	58				
		29	0	0	0	0	59				
		30	0	0	0	0	60				
AVERAGE OPACITY FOR 6' HIGHEST PERIOD 0%						NUMBER OF READINGS ABOVE 5% WERE 0					
RANGE OF OPACITY READINGS MINIMUM 0%						MAXIMUM 0%					
OBSERVER'S NAME (PRINT) E. Fehrmann											
OBSERVER'S SIGNATURE E. Fehrmann						DATE 7/11/86					
ORGANIZATION Pinellas County Dept. of Air Quality											
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE						CERTIFIED BY ETA					
TITLE						DATE					
DATE						DATE					





**Florida
Power**
CORPORATION

D.F.E. R.
JUL 16 1986
SOUTH WEST DISTRICT
TAMPA

July 14, 1986

Mr. Pete Hessling
Pinellas County Division of Air Quality
16100 Fairchild Drive
Building V101
Clearwater, FL 33520

Subject: Visual Emission Test
Permit AO-52-71879
Bartow Plant Fly Ash Silo Baghouse

Dear Mr. Hessling:

On July 11, 1986, a visual emission test was performed on the above unit in the presence of Mr. Eric Fehrman of your staff.

Enclosed is our report.

Sincerely,

A W Morneault

A. W. Morneault
Air Programs

AWM:dr

Enclosure

cc: Mr. Garrity, FDER

AO52-71879

I HAVE REVIEWED THIS REPORT AND IT (DOES DOES NOT) INDICATE COMPLIANCE WITH THE PERMIT FOR THIS SOURCE

DATE 10-27-86 BY *[Signature]*

D. E. R. P.

JUL 16 1986

307 WEST DISTRICT
TALLAHASSEE, FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION
State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

THIS IS TO CERTIFY THAT

Philip M. Watkins has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on *Sept. 15, 1984*

Judi Sears Certification Officer
Philip M. Watkins Observer's Signature
DER Form PERM 5-9 (10/85)



RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION	<i>BARTOW - Flyash silo</i>	HOURS OF OBSERVATION	<i>10:23 - 10:52</i>
PERMIT NUMBER	<i>A052-71879</i>	OBSERVER	<i>Philip Watkins</i>
DATE	<i>7-11-86</i>	OBSERVER CERTIFICATION DATE	<i>March 1986</i>
TYPE FACILITY	<i>Fly ash Silo</i>	POINT OF EMISSIONS	<i>Top of bag house</i>
CONTROL DEVICE	<i>Bag house</i>	HEIGHT OF DISCHARGE POINT	<i>- 30 ft.</i>

CLOCK TIME	Initial <i>10:23</i>		Final <i>10:52</i>
OBSERVER LOCATION	<i>100 ft</i>		
Distance to Discharge	<i>E</i>		
Direction from Discharge	<i>ground</i>		
Height of Observation Point	<i>blue sky</i>		
BACKGROUND DESCRIPTION	<i>S</i>		
WEATHER CONDITIONS	<i>5-8</i>		
Wind Direction	<i>85°F</i>		
Wind Speed	<i>10% clds</i>		
Ambient Temperature	<i>Clear</i>		
SKY CONDITIONS (Clear, overcast % clouds, etc.)			
PLUME DESCRIPTION			
Color			
Distance Visible			
Generation Load in Megawatts	<i>N/A</i>		

SUMMARY OF AVERAGE OPACITY

SET NUMBER	TIME		OPACITY	
	START	END	SUM	AVERAGE
	<i>10:23</i>	<i>10:52</i>	<i>0</i>	<i>0</i>

Readings ranged from 0 to 0 opacity.
 The source was was not in compliance with 0% at the time evaluation was made
 Highest 6 minute average 0

SOURCE LAYOUT SKETCH

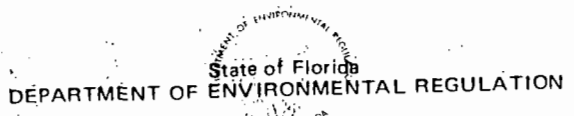
DRAW NORTH ARROW

250114 25011

D. ESTER

JUL 16 1986

SOUTH WEST DISTRICT
TAMPA



THIS IS TO CERTIFY THAT

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Judi Sears Certification Officer
Philip M. Watkins Observer's Signature
DER Form PERM 5-9 (10/85)



RECORD OF VISUAL DETERMINATION OF OPACITY

LOCATION	BARTOW - Flyash silo	HOURS OF OBSERVATION	10:23 - 10:52
PERMIT NUMBER	A052-71879	OBSERVER	Philip Watkins
DATE	7-11-86	OBSERVER CERTIFICATION DATE	March 1986
TYPE FACILITY	Fly ash Silo	POINT OF EMISSIONS	Top of bag house
CONTROL DEVICE	Bag house	HEIGHT OF DISCHARGE POINT	- 30 ft.

CLOCK TIME	Initial 10:23			Final 10:52
OBSERVER LOCATION	Distance to Discharge 100 ft			}
Direction from Discharge	E			
Height of Observation Point	ground			
BACKGROUND DESCRIPTION	blue sky			
WEATHER CONDITIONS	Wind Direction S			
Wind Speed	5-8			
Ambient Temperature	85°F			
SKY CONDITIONS	(Clear, overcast % clouds, etc.) 10% clds			
PLUME DESCRIPTION	Color Clear			
Distance Visible				
Generation Load in Megawatts	N/A			

SUMMARY OF AVERAGE OPACITY

SET NUMBER	TIME		OPACITY	
	START	END	SUM	AVERAGE
	10:23	10:52	0	0

Readings ranged from 0 to 0 opacity.
The source was was not in compliance with 0% at the time evaluation was made.
Highest 6 minute average 0

SOURCE LAYOUT SKETCH DRAW NORTH ARROW

EMISSION POINT (X) OBSERVER'S POSITION (X)

SUN SHADOW LINE

70° 70°

25014-2501

IDA, D, RA

JUL 16 1986

SOUTH WEST

DEPARTMENT OF ENVIRONMENTAL REGULATION
State of Florida
ENVIRONMENTAL REGULATION
STATE OF FLORIDA



RECORD OF VISUAL DETERMINATION OF OPACITY

THIS IS TO CERTIFY THAT

Philip M. Watkins completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on *Sept. 15, 1984*

Judi Sears Certification Officer
Philip M. Watkins Observer's Signature.
DER Form PERM 5-9 (10/85)

LOCATION	<i>BARTOW - Flyash silo</i>	HOURS OF OBSERVATION	<i>10:23 - 10:52</i>
PERMIT NUMBER	<i>A052-71879</i>	OBSERVER	<i>Philip Watkins</i>
DATE	<i>7-11-86</i>	OBSERVER CERTIFICATION DATE	<i>March 1986</i>
TYPE FACILITY	<i>Fly ash Silo</i>	POINT OF EMISSIONS	<i>Top of bag house</i>
CONTROL DEVICE	<i>Bag house</i>	HEIGHT OF DISCHARGE POINT	<i>- 30 ft.</i>

CLOCK TIME	Initial <i>10:23</i>	Final <i>10:52</i>
OBSERVER LOCATION	<i>100 ft</i>	
Distance to Discharge	<i>E</i>	
Direction from Discharge	<i>ground</i>	
Height of Observation Point	<i>blue sky</i>	
BACKGROUND DESCRIPTION	<i>S</i>	
WEATHER CONDITIONS	<i>5-8</i>	
Wind Direction	<i>85°F</i>	
Wind Speed	<i>10% clds</i>	
Ambient Temperature	<i>Clear</i>	
SKY CONDITIONS (Clear, overcast % clouds, etc.)		
PLUME DESCRIPTION		
Color		
Distance Visible		
Generation Load in Megawatts	<i>N/A</i>	

SUMMARY OF AVERAGE OPACITY				
SET NUMBER	TIME		OPACITY	
	START	END	SUM	AVERAGE
	<i>10:23</i>	<i>10:52</i>	<i>0</i>	<i>0</i>
Readings ranged from <i>0</i> to <i>0</i> opacity.				
The source <input checked="" type="checkbox"/> was <input type="checkbox"/> was not in compliance with <i>0%</i> at the time evaluation was made				
Highest 6 minute average <i>0</i>				
SOURCE LAYOUT SKETCH			DRAW NORTH ARROW	

25044-25001

INSPECTION REPORT FORM
AIR POLLUTANT EMISSION SOURCES

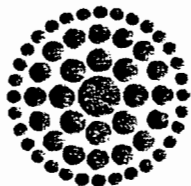
D. E. R.

FEB 18 1986

FACILITY FLORIDA POWER CORPORATION PAUL L. BARTOW PLANT		DISTRICT SOUTHWEST	COUNTY <small>WEST DISTRICT</small> TINELLAS
ADDRESS WEEDON ISLAND ST. PETERSBURG, FL.		CONTACT MR. DON TURNER OPERATIONS SUPERINTENDENT	
APIS # 40TPA5200(109)	PERMIT # A052-71879	EXPIRATION DATE 7/1/88	
SOURCE DESCRIPTION STEAM UNIT NO. 1 FLY ASH HANDLING SYSTEM. SILO AND DUST COLLECTOR			
INSPECTION DATE 12/30/85	AUDIT TYPE 2 - MINOR	COMPLIANCE STATUS IN COMPLIANCE	
INSPECTION COMMENTS/RECOMMENDATIONS			
<p>A052-71879 . - FLY ASH HANDLING SYSTEM FOR STEAM BOILER NO. 1 . FLY ASH STORAGE SILO CONTROLLED BY A FLAKT, INC. MODEL 90-WKE, 16 BAG DUST COLLECTOR . THE UNIT WAS TESTED FOR VISIBLE EMISSIONS BY EPA METHOD 9 . AVERAGE OPACITY DURING THE WORST SIX MIN. OF OPERATION WAS 0% .</p>			
INSPECTOR(S) NAME(S) RAMON SOLIS			
SIGNATURE(S) <i>Ramon Solis</i>		DATE 12/31/85	

Visible Emission Observation Form

SOURCE NAME			OBSERVATION DATE				START TIME		STOP TIME					
FLORIDA POWER CORPORATION			12/30/85				12:50		13:40					
ADDRESS			SEC				SEC							
PAUL L. BARTOW PLANT			MIN	0	15	30	45	MIN	0	15	30	45		
WEEDON ISLAND			1	0	0	0	0	31	0	0	0	0		
CITY	STATE	ZIP	2	0	0	0	0	32	0	0	0	0		
ST. PETERSBURG	FLORIDA		3	0	0	0	0	33	0	0	0	0		
PHONE	SOURCE ID NUMBER		4	0	0	0	0	34	0	0	0	0		
866-5700	A052-71879		5	0	0	0	0	35	0	0	0	0		
PROCESS EQUIPMENT UNIT #1	OPERATING MODE		6	0	0	0	0	36	0	0	0	0		
FLY ASH SILO	FULL LOAD		7	0	0	0	0	37	0	0	0	0		
CONTROL EQUIPMENT BAGHOUSE	OPERATING MODE		8	0	0	0	0	38	0	0	0	0		
FLAKT INC. - 90.WKE	CONTINUOUS		9	0	0	0	0	39	0	0	0	0		
DESCRIBE EMISSION POINT			10	0	0	0	0	40	0	0	0	0		
START BAGHOUSE VENT STOP			11	0	0	0	0	41	0	0	0	0		
HEIGHT ABOVE GROUND LEVEL	HEIGHT RELATIVE TO OBSERVER		12	0	0	0	0	42	0	0	0	0		
START 25' STOP	START 25' STOP		13	0	0	0	0	43	0	0	0	0		
DISTANCE FROM OBSERVER	DIRECTION FROM OBSERVER		14	0	0	0	0	44	0	0	0	0		
START 70' STOP	START 50° STOP		15	0	0	0	0	45	0	0	0	0		
DESCRIBE EMISSIONS			16	0	0	0	0	46	0	0	0	0		
START NONE VISIBLE STOP			17	0	0	0	0	47	0	0	0	0		
EMISSION COLOR	PLUME TYPE CONTINUOUS <input checked="" type="checkbox"/>		18	0	0	0	0	48	0	0	0	0		
START N/A STOP	FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>		19	0	0	0	0	49	0	0	0	0		
WATER DROPLETS PRESENT	IF WATER DROPLET PLUME		20	0	0	0	0	50	0	0	0	0		
NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>		21	0	0	0	0	51	0					
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED			22	0	0	0	0	52						
START 4 FT SW OF OUTLET STOP			23	0	0	0	0	53						
DESCRIBE BACKGROUND			24	0	0	0	0	54						
START SKY STOP			25	0	0	0	0	55						
BACKGROUND COLOR	SKY CONDITIONS		26	0	0	0	0	56						
START BLUE STOP	START CLEAR STOP		27	0	0	0	0	57						
WIND SPEED	WIND DIRECTION		28	0	0	0	0	58						
START 5 MPH STOP	START NE STOP		29	0	0	0	0	59						
AMBIENT TEMP.	WET BULB TEMP	RH, percent	30	0	0	0	0	60						
START 68°F STOP			Source Layout Sketch			Draw North Arrow			AVERAGE OPACITY FOR HIGHEST PERIOD 0%			NUMBER OF READINGS ABOVE 5% WERE 0		
						RANGE OF OPACITY READINGS MINIMUM 0% MAXIMUM 0%			OBSERVER'S NAME (PRINT) RAMON SOLIS					
						OBSERVER'S SIGNATURE Ramon Solis			DATE 12/30/85					
COMMENTS						ORGANIZATION PINELLAS COUNTY DIV. OF AIR QTY			CERTIFIED BY ETO/DER			DATE 9/10		
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE						VERIFIED BY			DATE					
TITLE			DATE			DATE			DATE					



**Florida
Power**
CORPORATION

January 2, 1986

Mr. Peter A. Hessling
Division of Air Quality
16100 Fairchild Drive
Bldg. V, #101
Clearwater, FL 33520

Dear Mr. Hessling:

Attached are the Visible Emission Reports for the following sources:

Bartow-Anclote Pipeline Heater (A052-15188)
Bartow Dry Ash System (A052-71879)

Should you have any questions concerning this information, please call me at (813) 866-4281.

Sincerely,

Dennis A. Shantz
Supervisor
Environmental Services

Shantz(Hessling)D12

cc: Dan Williams, DER, Tampa
G. L. Petersen
R. W. Reed
T. L. Brouette
Readers
File: ENVIRON 5-1

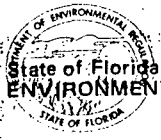
D. E. R.
JAN - 3 1986
SOUTH WEST DISTRICT
TAMPA

D. E. R.

JAN 3 1986

SOUTH WEST DISTRICT
TAMPA

RECORD OF VISUAL DETERMINATION OF OPACITY



DEPARTMENT OF ENVIRONMENTAL REGULATION
State of Florida
ENVIRONMENTAL REGULATION
STATE OF FLORIDA

THIS IS TO CERTIFY THAT

Kenneth E. Roy has completed the STATE OF FLORIDA visible emissions evaluation training and is a qualified observer of visible emissions as specified by EPA reference method 9. This certificate expires on March 15, 1986

Judi Sears Certification Officer
Kenneth E. Roy Bearer's Signature
DER Form PERM 5-9 (10/85)



Location <u>Bartow Plant</u>	Hours of Observation <u>15:10 - 15:39</u>
Permit Number <u>A052-71879</u>	Observer <u>K.E. Roy</u>
Date <u>12-30-85</u>	Observer Certification Date <u>Sept-85</u>
Type Facility <u>EN ASH SYSTEM</u>	Point of Emissions <u>STACK</u>
Control Device <u>Boiler House</u>	Height of Discharge Point <u>~ 30'</u>

	Initial	Final
CLOCK TIME	<u>15:10</u>	<u>15:39</u>
OBSERVER LOCATION Distance to Discharge	<u>~ 100 yds</u>	
Direction from Discharge	<u>W</u>	
Height of Observation Point	<u>Ground</u>	
BACKGROUND DESCRIPTION	<u>Blue sky</u>	
WEATHER CONDITIONS Wind Direction	<u>W</u>	
Wind Speed	<u>5</u>	
Ambient Temperature	<u>65°F</u>	
SKY CONDITIONS (Clear, overcast % clouds, etc.)	<u>0 clouds</u>	
PLUME DESCRIPTION Color	<u>Lt Brown</u>	
Distance Visible		
Other Information		

SUMMARY OF AVERAGE OPACITY				
SET NUMBER	TIME		OPACITY	
	START	END	SUM	AVERAGE
<u>1</u>	<u>15:10</u>	<u>15:39</u>	<u>1055</u>	<u>8.8</u>
Readings ranged from <u>0</u> to <u>30</u> opacity.				
The source <input checked="" type="checkbox"/> was <input type="checkbox"/> was not in compliance with at the time evaluation was made. <u>92</u>				

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

MECHANICAL SYSTEM

OBSERVATION RECORD

HOUR	MINUTE	SECONDS				STEAM PLUME (Check if applicable)		COMMENTS
		0	15	30	45	ATTACHED	DETACHED	
15:10	0	20	20	20	20			
	1	10	10	10	10			
	2	0	0	0	0			
	3	0	0	0	0			
	4	0	0	0	0			
	5	0	0	0	0			
	6	0	0	0	0			
	7	5	10	10	10			
	8	5	5	5	5			
	9	5	5	5	5			
	10	10	10	10	10			
	11	10	10	10	30			17/20
	12	30	30	20	10			54 @ 10
	13	10	10	10	10			12 @ 5 ✓
	14	10	10	10	10			10 @ 5 ✓
	15	10	10	10	10			3 @ 30
	16	10	10	10	10			
	17	10	10	10	10			
	18	10	10	10	10			
	19	10	10	10	10			10 5 5
	20	15	15	15	15			
	21	20	20	20	20			
	22	20	20	20	20			
	23	20	20	20	20			
	24	10	10	10	10			
	25	10	10	10	10			
	26	5	5	5	5			
	27	0	0	0	0			
	28	0	0	0	0			
	29	0	0	0	0			
	30							
	31							
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	59							

INSPECTION REPORT FORM
FOR POLLUTANT EMISSION SOURCES

FACILITY PAUL L. BARTOW PLANT FLORIDA POWER CORPORATION		DISTRICT SOUTHWEST	COUNTY PINELLAS
ADDRESS WEEDON ISLAND ST. PETERSBURG, FLORIDA		CONTACT MR. JOHN A. MEYER ELECTRICAL & CONTROL ENGINEER	
APIS # 40TPA52001109	PERMIT # A052-71879	EXPIRATION DATE 7/1/88	
SOURCE DESCRIPTION BARTOW STEAM UNIT NO. 1 FLY ASH HANDLING SYSTEM, SILO AND DUST COLLECTOR			
INSPECTION DATE 8/12/85	AUDIT TYPE MAJOR 2. MAJOR	COMPLIANCE STATUS IN COMPLIANCE	
INSPECTION COMMENTS/RECOMMENDATIONS			
<p>A052-71879 . FLY ASH HANDLING SYSTEM WITH A FLY ASH STORAGE SILO AND A FLAKT, INC. MODEL 90 WKE, 16 BAG DUST COLLECTOR</p> <p>THE UNIT WAS TESTED FOR VISIBLE EMISSIONS.</p> <p>AVERAGE OPACITY DURING THE WORST SIX MINUTES OF OPERATION WAS 0%</p>			
INSPECTOR(S) NAME(S) RAMON SOLIS			
SIGNATURE(S) <i>Ramon Solis</i>		DATE 8/14/85	

Visible Emission Observation Form

SOURCE NAME FLORIDA POWER CORPORATION		OBSERVATION DATE 8/12/85				START TIME 11:40		STOP TIME 12:40								
ADDRESS PAUL L. BARTOW PLANT		SEC	0	15	30	45	SEC	0	15	30	45					
WEEDON ISLAND		MIN	0	0	0	0	31	0	0	0	0					
CITY ST PETERSBURG	STATE FL.	ZIP	2	0	0	0	0	32	0	0	0					
PHONE 866-5700	SOURCE ID NUMBER A052-71879		3	0	0	0	0	33	0	0	0					
PROCESS EQUIPMENT UNIT NO. 1 FLY ASH SILO	OPERATING MODE INTERMITTENT		4	0	0	0	0	34	0	0	0					
CONTROL EQUIPMENT FLAKT, INC. MODEL 90-WKE-16 BAGHOUSE	OPERATING MODE CONTINUOUS		5	0	0	0	0	35	0	0	0					
DESCRIBE EMISSION POINT START BAGHOUSE STOP VENT		6	0	0	0	0	0	36	0	0	0					
HEIGHT ABOVE GROUND LEVEL START 25' STOP	HEIGHT RELATIVE TO OBSERVER START 25' STOP		7	0	0	0	0	37	0	0	0					
DISTANCE FROM OBSERVER START 85 STOP	DIRECTION FROM OBSERVER START 175° STOP		8	0	0	0	0	38	0	0	0					
DESCRIBE EMISSIONS START NOW VISIBLE STOP		9	0	0	0	0	0	39	0	0	0					
EMISSION COLOR VISIBLE START NONE STOP	PLUME TYPE: CONTINUOUS <input checked="" type="checkbox"/> FUGITIVE <input type="checkbox"/> INTERMITTENT <input type="checkbox"/>		10	0	0	0	0	40	0	0	0					
WATER DROPLETS PRESENT: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	IF WATER DROPLET PLUME ATTACHED <input type="checkbox"/> DETACHED <input type="checkbox"/>		11	0	0	0	0	41	0	0	0					
POINT IN THE PLUME AT WHICH OPACITY WAS DETERMINED START 4 FT NW OF OUTLET STOP		12	0	0	0	0	0	42	0	0	0					
DESCRIBE BACKGROUND START SKY STOP		13	0	0	0	0	0	43	0	0	0					
BACKGROUND COLOR START BLUE STOP	SKY CONDITIONS c c START 35% STOP		14	0	0	0	0	44	0	0	0					
WIND SPEED START 5 MPH STOP	WIND DIRECTION START SE STOP		15	0	0	0	0	45	0	0	0					
AMBIENT TEMP START 92°F STOP	WET BULB TEMP.	RH, percent	16	0	0	0	0	46	0	0	0					
<p>Source Layout Sketch Draw North Arrow</p>		17	0	0	0	0	0	47	0	0	0					
		18	0	0	0	0	0	0	48	0	0	0				
		19	0	0	0	0	0	0	49	0	0	0				
		20	0	0	0	0	0	0	50	0	0	0				
		21	0	0	0	0	0	0	51	0	0	0				
		22	0	0	0	0	0	0	52	0	0	0				
		23	0	0	0	0	0	0	53	0	0	0				
		24	0	0	0	0	0	0	54	0	0	0				
		25	0	0	0	0	0	0	55	0	0	0				
		26	0	0	0	0	0	0	56	0	0	0				
AVERAGE OPACITY FOR HIGHEST PERIOD 0%		NUMBER OF READINGS ABOVE 5% WERE 0		27	0	0	0	0	57	0	0	0				
RANGE OF OPACITY READINGS MINIMUM 0% MAXIMUM 0%		OBSERVER'S NAME (PRINT) RAMON SOLIS		28	0	0	0	0	58	0	0	0				
COMMENTS		OBSERVER'S SIGNATURE Ramon Solis		DATE 8/12/85		29	0	0	0	0	59	0	0	0		
I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS SIGNATURE		ORGANIZATION PINELANDS COUNTY DIV. OF AIR BY		CERTIFIED BY ETA/DER		DATE 3/13/85		30	0	0	0	0	60	0	0	0
TITLE	DATE	VERIFIED BY		DATE												

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

ANNUAL OPERATIONS REPORT FORM
FOR AIR EMISSIONS SOURCES

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

I. GENERAL INFORMATION:

1. Source Name: Florida Power Corp. (Bartow Plant)
2. Permit Number: A052-71879
3. Source Address: Weedon Island
St. Petersburg, FL 33702
4. Description of Source: Fly Ash Handling System - Unit 1

II. OPERATING SCHEDULE: 24 hrs/day 7 day/wk 52 wks/yr

III. RAW MATERIAL INPUT PROCESS WEIGHT:

Raw Material	Input Process Weight	
<u>Fly Ash</u>	<u>3,209</u>	<u>tons/yr</u>
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
_____	_____	tons/yr
Product Output (tons/yr - cubic feet/yr)		_____

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

_____ 10^6 Cu. Ft. Natural Gas	_____ 10^3 gallons No. <u>Oil</u> , _____ %S
_____ 10^3 gallons Propane	_____ 10^3 gallons No. <u>Oil</u> , _____ %S
_____ tons Coal	_____ tons Refuse
_____ tons Carbonaceous	
Other (Specify type and units) _____	

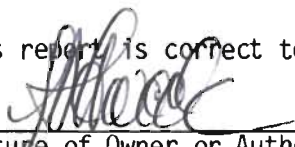
V. EMISSION LEVEL (tons/yr):

A. <u>0.032</u> Particulates	_____ Carbon Monoxide
_____ Nitrogen Oxide	_____ Total Reduced Sulfur
_____ Hydrocarbon	_____ Fluoride
_____ Sulfur Dioxide	
Other (Specify type and units) _____	

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

VI. CERTIFICATION:

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



Signature of Owner or Authorized Representative

J. A. Hancock
Vice President, Fossil Operations

DER

COMPLIANCE VERIFICATION INSPECTION

FLORIDA POWER CORPORATION
PAUL L. BARTOW PLANT
FLY ASH SYSTEM FOR STEAM UNIT NO. 1
PINELLAS COUNTY
NEDS NUMBER: 052-0011-09
PERMIT NUMBER: A052-71879
DATE OF INSPECTION: MARCH 6, 1984

D. E. R.
APR 09 1984
SOUTH WEST DISTRICT
TAMPA

The Florida Power Corporation Paul L. Bartow Plant is located in Weedon Island, St. Petersburg, Florida.

Plant contact persons were Mr. Don Turner, Operations Superintendent and Mr. John A. Meyer, Electrical and Control Engineer. Ramon Solis of the Pinellas County Division of Air Quality, D.E.M., performed the inspection.

Object of the inspection was to verify the operation of the fly ash handling system, particularly the fly ash storage silo and the Flakt, Inc. Model 90 - WKE - 16 dust collector. The system collects and stores fly ash from the electrostatic precipitator which controls emissions from Unit No. 1.

There is a pneumatic conveyer system under ground to remove fly ash from the electrostatic precipitator hoppers by means of 12 transporters and a pressurized fly ash conveyor system which is 1500 feet long. The fly ash silo has a cyclone separator to remove the fly ash from the air stream. The dust collector control device prevents emissions through the baghouse vent. The silo's pressure relief valve is set to open at a pressure of 10 inches of water.

The 12 transporters of the system can be triggered into operation in three modes: manually, by fill override or by time lapse of 6 minutes. The ash collected in the storage silo is discharged twice per shift into a wet mixer and then it is deposited in a pond. From the pond it is taken out and stored in a cemented mound outside the pond. So far, the company has been unable to sell the material as a cementing product, because of its fineness. No ashes have been disposed of outside the Bartow Plant perimeter.

A visible emissions test was performed during the inspection of the storage silo. No visible emissions were detected. Average opacity during the worst six minutes of operation was 0%. No discharging operation from the silo into the wet mixer was observed.

This source is considered to be in compliance with Chapters 17-2 and 17-4, Florida Administrative Code.

RS/wn
3/8/84

BEST AVAILABLE COPY

SOURCE NAME
BARTOW PLANT FLORIDA POWER CORP

ADDRESS
WEEDON ISLAND
ST. PETERSBURG

STATE **FLORIDA** ZIP **866-5700** PHONE **866-5700**

SOURCE ID NUMBER
A09-71879

OBSERVATION DATE
3/6/84

OBSERVER'S NAME (PRINT)
RAMON SOLIS

ORGANIZATION
PINELLAS COUNTY DIVISION OF AIR QTY

CERTIFIED BY
ETA/DER

BEST AVAILABLE COPY



DATE
9/15/83

PROCESS **UNLOADING FLY ASH** OPERATING MODE
INTERMITTENT

START TIME **11:55** STOP TIME **12:25**

	0	15	30	45	0	15	30
--	---	----	----	----	---	----	----

CONTROL EQUIPMENT **FLAKT, INC** OPERATING MODE
INTERMITTENT

MODEL **90-WKE-16 BAGHOUSE**

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

SCRIBE EMISSION POINT

EMISSION POINT HEIGHT ABOVE GROUND LEVEL **25'**

EMISSION POINT HEIGHT RELATIVE TO OBSERVER **25'**

DISTANCE TO EMISSION POINT **80'**

DIRECTION TO EMISSION POINT **170°**

SCRIBE EMISSIONS
NONE VISIBLE

CHARACTER OF EMISSIONS
NONE VISIBLE

CONTINUOUS FUGITIVE
 INTERMITTENT

WATER VAPOR PRESENT
 YES

IF YES, IS PLUME ATTACHED N/A DETACHED

AT WHAT POINT WAS OPACITY DETERMINED
4 FT NW OF BAGHOUSE VENT

SCRIBE BACKGROUND
SKY

COLOR OF BACKGROUND
BLUE

SKY CONDITIONS
35-40% CC

WIND SPEED
10 MPH

WIND DIRECTION
SE

AMBIENT TEMPERATURE
75°F

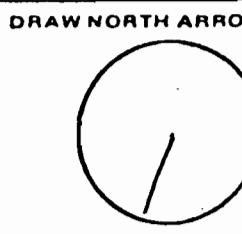
RELATIVE HUMIDITY
65%

REMARKS

AVERAGE OPACITY WORST SIX MINUTES **0%**

NUMBER OF READINGS ABOVE _____ % WERE **0**

RANGE OF OPACITY READINGS FROM **0** TO **0%**



OBSERVER'S SIGNATURE
Ramon Solis

DATE
3/6/84

I HAVE RECEIVED A COPY OF THESE OPACITY OBSERVATIONS.

SIGNATURE

TITLE

DATE

CERTIFIED BY

12/27/83

PLANT 0011 FLORIDA POWER CORPORATION
WEEDON ISLAND
SAINT PETERSBURG
W P STEWART
P O BOX 14042
ST PETERSBURG . 33733
BARTOW.

UTILITY FILE STATUS NEW ADD
POWER PLANT
FL. 33733
AQCR=052 SIC=4911
LAT=28:20:30N LON=82:19:17W
UTM ZONE 17 342.4KM E. 3032.8KM N.

POINT 09 CONST PATS# OPER PATS# A052-71879
ISS= / / EXP= / / ISS=02/04/83 EXP=07/01/88

FLYASH STORAGE SILO WITH BAGHOUSE
SOURCE= IPP=00 NEW ECAP=? COMM.PNTS.
STACK HT= 25FT DIAM= .9FT TEMP= 77F FLOW= 5CFM PLUME= 0FT
BOILER CAP= 0MBTU/HR FUEL FOR SPACE HEAT= .0%
OPERATING PROCESS RATES YOR=83 RAW MATERIAL= 4000 LB/PRD
PRODUCT 0 OTHER FUEL 0 OTHER
NORMAL COND. DEC-FEB=25% MAR-MAY=25% JUN-AUG=25% SEP-NOV=25%
PERMIT SCHEDULE 24HRS/DAY 7DAYS/WK 52WKS/YR
AOR FOR / / HRS/DAY DAYS/WK WKS/YR
FLAKT, INC MODEL 90-UKE-13 DUST COLLECTOR
COMPLIANCE NEDS=1 QRC=4 UPDATE / SCHED. / UPDATED / /
PERMIT=1 YOR=83 INSPECTED 11/11/11 NEXT DUE 11/11/12

*2 TANK ?
low flow #/hr*

SCC'S S

3-05-999-99 YOR=83 SOURCE=P RATE= 17472 MAX= 2.000 TN/PRC.
FUEL CONT SO2= . % ASH= . % METU FYCR= CONFID=2
FLYASH STORAGE SILO

POLLUTANTS MONITORED

VE 11204 NORM= . EST/METH= / MAX.ALW= TNS/YR.
CTLS.PRI= 13 SEC= 0 EFF=99.9% NEXT DUE 01/17/84 TEST/FREQ=1
TESTED 01/17/83 AGENCY=3 REG=700 COMPLIANCE=1
EMITTED= 300.00 ALLOWED= 300.05LBS/HR OP-RATE= 4000 LB/PRD

07/83

DER PERMIT APPLICATION TRACKING SYSTEM MASTER RECORD

FILE#000000071079 CONF# DER PROCESSOR:ESTLER DER OFFICE:TPA
FILE NAME:FLORIDA POWER CORP DATE FIRST REC: 12/04/82 APPLICATION TYPE:A0
APPL NAME:FLORIDA POWER CORP APPL PHONE:(813)866-4523 PROJECT COUNTY:52
ADDR:P O BOX 14042 CITY:ST PETE ST:FL ZIP:33733
AGNT NAME: AGNT PHONE:() - ST: ZIP:
ADDR: CITY:

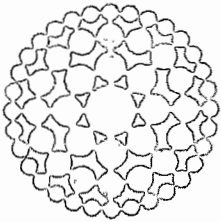
ADDITIONAL INFO REC:04/05/83 03/17/83 / / REC:02/15/83 04/12/83 05/12/83
APPL COMPLETE DATE: 05/12/83 COMMENTS REC:N DATE REC: / / DATE REC: / /
LETTER OF INTENT REC:Y DATE WHEN INTENT ISSUED: / / MATUR DATE: / /

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

*** RECORD HAS BEEN SUCCESSFULLY UPDATED *** 08/04/83 11:34:35

FEE PD DATE#1: / / \$ RECEIPT# REFUND DATE: / / REFUND \$
FEE PD DATE#2: / / \$ RECEIPT# REFUND DATE: / / REFUND \$
APPL:ACTIVE/INACTIVE/DENIED/WITHDRAWN/TRANSFERRED/EXEMPT/ISSUED:IS DATE:08/04/83
REMARKS:FLY ASH HANDLING SYSTEM AT BARTOW UNIT 4

Air
Estler
2007



**Florida
Power**
CORPORATION

May 12, 1983

Mr. Jim Estler
Southwest District
Department of Environmental Regulation
7601 Highway 301 North
Tampa, Florida 33610

Subject: Bartow Unit 1 Fly Ash System

Dear Mr. Estler:

Attached is the completed form you requested in your letter of March 9, 1983, concerning a separate permit for the fly ash handling system at Bartow Unit 1. Please review and let me know if this meets your needs.

Sincerely,

T. H. Wooten
T. H. Wooten

THW/gr

Attachment

D.E.R.
MAY 19 1983
SOUTHWEST DISTRICT
TAMPA

Fly Ash Handling System - Bartow Unit 1 Additional Information

(1) Manufacture's name, model number & specification for baghouse (and cyclone): * Flakt, Inc. 90-UKE-16

99.9% efficiency (design specification)

(2) Hours of operation: 24 hrs/day; 7 days/wk; 52 wks/yr

(3) Fly Ash Production Rate: 4000 lbs/hr or _____ tons/hr

(4) Actual Emissions: n/a lbs/hr; n/a tons/year**

(5) Uncontrolled Emissions: n/a lbs/hr; n/a tons/year**

2 TPH

(6) Efficiencies:

Baghouse; 99.9 %
Cyclone; n/a % *

(7) Stack geometry and Flow Characteristics:

Stack Height; 24 ft
Gas Flow Rate; 5 ACFM
Water Vapor Content; 0 %
Stack Diameter; (11) inches
Gas Exit Temperature; Ambient °F
Velocity; 0.13 FPS

(8) Size of fly ash storage silo: 500 cu.ft.

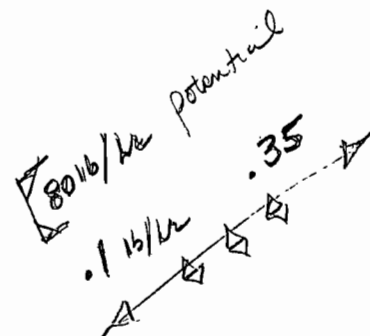
(9) Ultimate use or disposal of stored fly ash: It is planned to sell ash for use in concrete, etc. Ash stored on site is placed in a storage ash with no discharge to surface waters.

*The cyclone is used in the process as a material separator, not a pollution control device. It is internal to the system.

**The baghouse is permitted only under the opacity regulations. It has been tested for opacity and had an opacity of 0%.

$$A = \pi r^2 \quad \frac{5.25}{12} \quad 0.4375 \quad 0.19$$

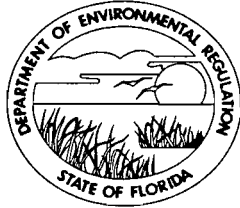
$$0.13 \frac{ft}{sec} \times \frac{60 sec}{1 min} \times 0.60 ft^2 = 4.68 \frac{ft^3}{min}$$



STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL REGULATION

SOUTHWEST DISTRICT

7601 HIGHWAY 301 NORTH
TAMPA, FLORIDA 33610



BOB GRAHAM
GOVERNOR

VICTORIA J. TSCHINKEL
SECRETARY

WILLIAM K. HENNESSEY
DISTRICT MANAGER

March 9, 1983

Mr. T. A. Wooten
Florida Power Corporation
Post Office Box 14042
St. Petersburg, FL 33733

RE: Pinellas County - AP
Florida Power Corporation
Bartow Unit One Fly Ash System

Dear Mr. Wooten:

As discussed earlier this year, the Department intends to separate the fly ash handling system from the operating permit for Bartow Unit One. An additional application fee will not be required for this permit, however information is needed in order to prepare the permit. The attached sheet lists the necessary information.

Your attention to this request is appreciated. Should you have any question please give me a call at 985-7402

Sincerely,

Jim Estler,
Air Engineer

JE/rm

cc: PCDEM

ROUTING AND TRANSMITTAL SLIP	ACTION NO.
	ACTION DUE DATE

1. TO: (NAME, OFFICE, LOCATION) <i>Bill -</i>	INITIAL
	DATE
2. <i>RE: Snellas Co - AP</i>	INITIAL
	DATE
3. <i>Florida Power Corp.</i>	INITIAL
	DATE
4. <i>Bartow Unit One</i>	INITIAL
	DATE

REMARKS:

Rusty Wooten is to provide a letter committing Florida Power to emissions less than one ton/yr for their Bartow Unit One Fly Ash Permit. Letter should be rec'd before we issue the permit. Check to make sure the permitted emission levels are the same as those in the letter. (He should also adjust the ACFM rates.)

I'll do the APIS forms when I return

INFORMATION
<input type="checkbox"/> REVIEW & RETURN
<input type="checkbox"/> REVIEW & FILE
<input type="checkbox"/> INITIAL & FORWARD
DISPOSITION
<input type="checkbox"/> REVIEW & RESPOND
<input type="checkbox"/> PREPARE RESPONSE
<input type="checkbox"/> FOR MY SIGNATURE
<input type="checkbox"/> FOR YOUR SIGNATURE
<input type="checkbox"/> LET'S DISCUSS
<input type="checkbox"/> SET UP MEETING
<input type="checkbox"/> INVESTIGATE & REPT
<input type="checkbox"/> INITIAL & FORWARD
<input type="checkbox"/> DISTRIBUTE
<input type="checkbox"/> CONCURRENCE
<input type="checkbox"/> FOR PROCESSING
<input type="checkbox"/> INITIAL & RETURN

FROM: <i>[Signature]</i>	DATE
	PHONE

Fly Ash Handling System - Bartow Unit 1 Additional Information

(1) Manufacture's name, model number & specification for baghouse (and cyclone): _____

(2) Hours of operation: _____ hrs/day; _____ days/wk; _____ wks/yr

(3) Fly Ash Production Rate: _____ lbs/hr or _____ tons/hr

(4) Actual Emissions: _____ lbs/hr; _____ tons/year

(5) Uncontrolled Emissions: _____ lbs/hr; _____ tons/year

(6) Efficiencies:
Baghouse; _____ %
Cyclone; _____ %

(7) Stack geometry and Flow Characteristics:
Stack Height; _____ ft
Gas Flow Rate; _____ ACFM
Water Vapor Content; _____ %
Stack Diameter; _____ ft
Gas Exit Temperature; _____ °F
Velocity; _____ FPS

(8) Size of fly ash storage silo: _____.

(9) Ultimate use or disposal of stored fly ash: _____

Jim Ester
7-15-83
4:50

Mr Rusty Wooten, of
FL Power Called.
He & Mr. Shantz, will
be gone the week of
the 18th. The info.
you want for Barton
Plant, will be sent
to you, the week of
the 25th

JM