



# Department of Environmental Protection

Lawton Chiles  
Governor

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

Virginia B. Wetherell  
Secretary

August 10, 1995

## CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. W. Jeffrey Pardue, Director  
Environmental Services Department H2G  
Florida Power Corporation  
Post Office Box 14042  
St. Petersburg, Florida 33733

Dear Mr. Pardue:

RE: Intercession City-DEP Permit No. AC 49-203114 and PSD-F1-180  
Request to Burn Natural Gas in Units P7 through P11

The Department is in receipt of your April 28, May 31, and July 7, 1995, letters requesting a permit modification to burn natural gas as a supplemental fuel in combustion turbines P7 through P11. The Bureau of Air Regulation has evaluated your request and approves the burning of natural gas for these turbines since there will not be an increase in either lb/hr/unit or tons/yr/unit of the permitted emission rates. Consequently, the following new condition will be added:

### SPECIFIC CONDITION No. 1

These emission units are allowed to burn natural gas. Emissions of each pollutant while burning natural gas shall not exceed the following limits:

GE PG7111(EA), 4 units

	<u>lb/hr/unit</u>	<u>tons/yr/unit</u>
PM	7.50	12.71
SO <sub>2</sub>	2.99	5.06
CO	21.30	36.10
NO <sub>x</sub>	107.00	181.37 and 25 ppmvd at 15% oxygen
VOC	3.00	5.08
H <sub>2</sub> SO <sub>4</sub>	0.44	0.75

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**SIEMENS V84.3, 1 unit**

	<u>lb/hr</u>	<u>ton/yr</u>	
PM	7.5	12.71	
SO2	4.22	7.15	
CO	30.9	52.37	
NOx	149	252.56	and 25 ppmvd at 15% oxygen
VOC	5.3	8.98	
H2SO4	0.64	1.08	

<u>GE Frame 7EA Units (P7-P10)</u>	<u>Temp. (F)</u>	<u>Heat Input (MMBtu/hr)</u>
	20	1,159
	59	1,048
	90	955
<u>Siemens Unit (P11)</u>	20	1,609
	59	1,477
	95	1,355

Allowable emissions are calculated at 59°F. Annual emissions rates are based on 3390 hours per year.

BACT Determination

The BACT determination is hereby revised to include the burning of natural gas at a NOx emission standard of 25 ppmvd at 15%O<sub>2</sub>.

It is the Department's understanding that natural gas is available on an interruptible basis at this time. In the future, if natural gas becomes available on a non-interruptible basis, the Department may reassess the BACT and may require stricter NOx control over a reasonable period of time.

A copy of this amendment letter shall be attached to and shall become a part of Air Construction Permit AC49-203114, PSD-FL-180.

Sincerely,



Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/th/t

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August 10, 1995  
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CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this **PERMIT AMENDMENT** and all copies were mailed by certified mail before the close of business on 8-11-95 to the listed persons.

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

Kurt Jaker      8-11-95  
Clerk                      Date

Copies to be furnished to:

cc: Charles Collins, CD  
Mike Kennedy, FPC

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1.  Addressee's Address
- 2.  Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:  
 W. Jeffrey Pardue, Director  
 Fla. Power Corp  
 PO Box 14042  
 St. Pete, FL 33733

4a. Article Number  
 2 392 979 024

4b. Service Type  
 Registered     Insured  
 Certified     COD  
 Express Mail     Return Receipt for Merchandise

7. Date of Delivery  
 AUG 17 1995

5. Signature (Addressee)  
 Brian Williams

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

Thank you for using Return Receipt

2 392 979 024



**Receipt for Certified Mail**

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

PS Form 3800, March 1993

Sent to	W. Jeffrey Pardue
City and Co.	Fla. Power Corp
State and ZIP Code	St. Pete, FL
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	AC49-203114 E-11-95
	PSD-FI-180

AC49-270739

PSD-FI-180

Final Determination

Florida Power Corporation  
Intercession City  
AC 49-203114  
PSD-FL-180A

Department of Environmental Protection  
Division of Air Resources Management  
Bureau of Air Regulation

August 10, 1995

Final Determination  
Florida Power Corporation  
Intercession City Facility  
PSD-FL-180A  
AC49-203114

The Permit Amendment for the Florida Power Corporation (FPC) Intercession City facility was distributed on July 17, 1995. The amendment will allow the use of natural gas as a supplemental fuel for electrical peaking units P7 through P11. When using natural gas, actual and allowable emissions will be lower than when burning fuel oil. This permit amendment does not change the intent of the previously issued PSD permit nor does it result in an emissions increase.

The Notice of Intent to Issue was published in the Orlando Sentinel on July 21, 1995. Copies of the permit amendment evaluation were available for inspection at the Department of Environmental Protection's offices in Orlando and Tallahassee.

No comments were submitted during the public notice period.

The final action of the Department is to issue the permit amendment as noted during the public notice period.

Florida Department of  
**Environmental Protection**

Memorandum

TO: Howard L. Rhodes  
FROM: *JC* Clair Fancy *JCF*  
DATE: August 10, 1995  
SUBJECT: Approval of Construction Permit Amendment  
Florida Power Corporation - Intercession City  
AC 49-203114, PSD-FL-180A

Attached is a letter prepared by the Bureau of Air Regulation that will amend the PSD permit for the Intercession City facility. The amendment will approve the burning of natural gas as a supplemental fuel in combustion turbines P7 through P11.

This permit amendment is not controversial. I recommend your approval and signature.

AAL/th/t

RECEIVED

AUG 11 1995

Bureau of  
Air Regulation