



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
100 ALABAMA STREET, S.W.
ATLANTA, GEORGIA 30303-3104

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BUREAU OF
AIR REGULATION

Mr. W. Jeffrey Pardue
Designated Representative
Florida Power Corporation
3201 Thirty-fourth Street South
P.O. Box 14042
St. Petersburg, Florida 33733

Dear Mr. Pardue:

Enclosed you will find the draft Phase I Acid Rain permit issued by the U.S. Environmental Protection Agency on March 27, 1997, for the affected sources in your nitrogen oxides early election compliance plan. This permitting action will become final 40 days after a notice is published in the Federal Register or local newspaper, whichever is later, unless adverse comment is received within 30 days after publication. Notice of this permitting action is scheduled for publication on April 11, 1997.

Your cooperation has been appreciated. If you have any questions or comments, please contact Mr. Scott Davis of my staff at (404) 562-9127.

Sincerely,


for R. Douglas Neeley
Chief

Air and Radiation Technology Branch
Air, Pesticides and Toxics
Management Division

Enclosure

cc: Mike Kennedy, Florida Power
Tom Cascio, Florida DEP



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REGION 4
ATLANTA FEDERAL CENTER
100 ALABAMA STREET, S.W.
ATLANTA, GEORGIA 30303-3104

PHASE I ACID RAIN PERMIT For NO_x Early Election

Issued to: Crystal River Plant
Operated by: Florida Power Corporation
Effective: January 1, 1997 through December 31, 1999

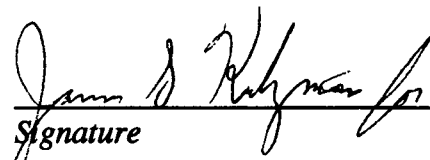
This page will be replaced to document new EPA actions each time a new action is taken by the Agency. This is the initial permitting action:

Summary of Previous Actions

None.

Present Action

1. Permit, including the NO_x early election compliance plan, issued as a direct final permit for Units 2, 4, and 5. This action will become final 40 days after notice in the Federal Register or local newspaper, whichever is later, unless adverse comment is received within 30 days after publication. (See page 1)



Signature

3/27/97

Date

Winston A. Smith
Director, Air, Pesticides and Toxics Management Division
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, S.W.
Atlanta, Georgia 30303
Telephone: (404) 562-9077

Facsimile: (404) 562-9095



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PHASE I ACID RAIN PERMIT For NO_x Early Election

Issued to: Crystal River Plant
Operated by: Florida Power Corporation
Effective: January 1, 1997 through December 31, 1999

The Acid Rain Permit comprises the following:

1. The statement of basis containing:

Part A, with references to statutory and regulatory authorities, and comments, notes and justifications that apply to the source in general; and

Part B, for each Early Election unit at this source:

- a NO_x compliance plan; and,
 - comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements.
2. The permit application forms that this source submitted, as corrected by EPA. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

Statement of Basis. Part A

Page 2

Plant Name: Crystal River Plant
State: Florida
ORIS Code: 0628

Statutory and Regulatory Authorities. In accordance with Title IV of the Clean Air Act Amendments of 1990, the U. S. Environmental Protection Agency issues this permit pursuant to 40 CFR part 72, subparts E and F, and part 76.

For further information contact:

Scott Davis, Acid Rain Contact
U.S. EPA, Region 4
Air, Pesticides and Toxics Management Division
Telephone: (404) 562-9127
Facsimile: (404) 562-9095

Comments, notes and justifications that apply to the source in general:

None.

R. SCOTT DAVIS

Permit Reviewer

R. Scott Davis

Signature

3/24/97

Date

Plant Name: Crystal River Plant

State: Florida

ORIS Code: 0628

Boiler ID#: 2

NO_x Compliance Plan

EPA approves a nitrogen oxides early election plan for this unit for 1997-2007 under which this unit's annual average NO_x emission rate for each year, determined using the methods and procedures specified in 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.5(a), of 0.45 lbs/mmBtu for tangentially fired units. If this unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to any revised NO_x emission limitation for Group 1 boilers that the Administrator may issue pursuant to section 407(b)(2) of the Act, until January 1, 2008.

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

None.

R. SCOTT DAVIS

Permit Reviewer



Signature

3/24/97

Date

Statement of Basis. Part B

Page 4

Plant Name: Crystal River Plant

State: Florida

ORIS Code: 0628

Boiler ID#: 4

NO_x Compliance Plan

EPA approves a nitrogen oxides early election plan for this unit for 1997-2007 under which this unit's annual average NO_x emission rate for each year, determined using the methods and procedures specified in 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.5(a), of 0.50 lbs/mmBtu for dry bottom wall-fired units. If this unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to any revised NO_x emission limitation for Group 1 boilers that the Administrator may issue pursuant to section 407(b)(2) of the Act, until January 1, 2008.

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

None.

R. SCOTT DAVIS

Permit Reviewer



Signature

3/24/97

Date

Statement of Basis. Part B

Page 5

Plant Name: Crystal River Plant

State: Florida

ORIS Code: 0628

Boiler ID#: 5

NO_x Compliance Plan

EPA approves a nitrogen oxides early election plan for this unit for 1997-2007 under which this unit's annual average NO_x emission rate for each year, determined using the methods and procedures specified in 40 CFR part 75, shall not exceed the applicable emission limitation under 40 CFR 76.5(a), of 0.50 lbs/mmBtu for dry bottom wall-fired units. If this unit is in compliance with its applicable emission limitation for each year of the plan, then the unit shall not be subject to any revised NO_x emission limitation for Group 1 boilers that the Administrator may issue pursuant to section 407(b)(2) of the Act, until January 1, 2008.

Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process:

None.

R. SCOTT DAVIS

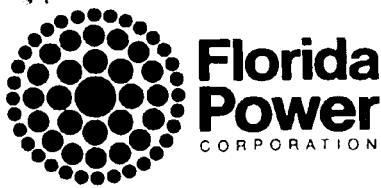
Permit Reviewer

R. Scott Davis

Signature

3/24/97

Date



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**DIVISION OF AIR
RESOURCES MANAGEMENT**

December 19, 1997

Mr. Howard Rhodes
Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399

Dear Mr. Rhodes:

Re: Phase II NOx Compliance Plan

As required by 40 CFR 76.9, Florida Power Corporation (FPC) submits the attached Phase II NOx compliance plan for Crystal River Units 1, 2, 4, and 5. All four units are Group 1 boilers, and Units 2, 4, and 5 are early election units.

Please contact Mr. Mike Kennedy at (813) 866-4344 if you have any questions.

Sincerely,

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

Attachment

cc: Mr. James R. Stitt, Alternate Designated Representative
Mr. Brian McLean, USEPA Acid Rain Division

Florida Department of Environmental Protection

Phase II NO_x Compliance Plan

For more information, see instructions and refer to 40 CFR 76.9

This submission is: ☒ New ☐ Revised

Page 1 of 3

STEP 1 Indicate plant name, state, and ORIS code from NADB, if applicable.	Plant Name Crystal River	FL State	ORIS Code 628
STEP 2	Identify each affected Group 1 and Group 2 boiler using the boiler ID# from NADB, if applicable. Indicate boiler type: "CB" for cell burner, "CY" for cyclone, "DBW" for dry bottom wall-fired, "T" for tangentially fired, "V" for vertically fired, and "WB" for wet bottom. Indicate the compliance option selected for each unit.		

ID#	ID#	ID#	ID#	ID#	ID#
1	2	4	5		
Type	Type	Type	Type	Type	Type
T	T	DBW	DBW		

(a) Standard annual average emission limitation of 0.50 lb/mmBtu (for Phase I dry bottom wall-fired boilers)

☐ ☐ ☒ ☒ ☐ ☐

(b) Standard annual average emission limitation of 0.45 lb/mmBtu (for Phase I tangentially fired boilers)

☐ ☒ ☐ ☐ ☐ ☐

(c) EPA-approved early election plan under 40 CFR 76.8 through 12/31/07 (also indicate above emission limit specified in plan)

☐ ☒ ☒ ☒ ☐ ☐

(d) Standard annual average emission limitation of 0.46 lb/mmBtu (for Phase II dry bottom wall-fired boilers)

☐ ☐ ☐ ☐ ☐ ☐

(e) Standard annual average emission limitation of 0.40 lb/mmBtu (for Phase II tangentially fired boilers)

☒ ☐ ☐ ☐ ☐ ☐

(f) Standard annual average emission limitation of 0.68 lb/mmBtu (for cell burner boilers)

☐ ☐ ☐ ☐ ☐ ☐

(g) Standard annual average emission limitation of 0.86 lb/mmBtu (for cyclone boilers)

☐ ☐ ☐ ☐ ☐ ☐

(h) Standard annual average emission limitation of 0.80 lb/mmBtu (for vertically fired boilers)

☐ ☐ ☐ ☐ ☐ ☐

(i) Standard annual average emission limitation of 0.84 lb/mmBtu (for wet bottom boilers)

☐ ☐ ☐ ☐ ☐ ☐

(j) NO_x Averaging Plan (include NO_x Averaging form)

☐ ☐ ☐ ☐ ☐ ☐

(k) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(A) (check the standard emission limitation box above for most stringent limitation applicable to any unit utilizing stack)

☐ ☐ ☐ ☐ ☐ ☐

Plant Name (from Step 1)

Crystal River

Page 2 of 3

STEP 2, cont'd.

ID#	ID#	ID#	ID#	ID#	ID#
Type	Type	Type	Type	Type	Type

(l) Common stack pursuant to 40 CFR 75.17(a)(2)(i)(B) with NO_x Averaging (check the NO_x Averaging Plan box and include NO_x Averaging Form)

☐ ☐ ☐ ☐ ☐ ☐

(m) EPA-approved common stack apportionment method pursuant to 40 CFR 75.17 (a)(2)(i)(C), (a)(2)(iii)(B), or (b)(2)

☐ ☐ ☐ ☐ ☐ ☐

(n) AEL (include Phase II AEL Demonstration Period, Final AEL Petition, or AEL Renewal form as appropriate)

☐ ☐ ☐ ☐ ☐ ☐

(o) Petition for AEL demonstration period or final AEL under review by U.S. EPA or demonstration period ongoing

☐ ☐ ☐ ☐ ☐ ☐

(p) Repowering extension plan approved or under review

☐ ☐ ☐ ☐ ☐ ☐

STEP 3

Read the standard requirements and certification, enter the name of the designated representative, sign and date.

Standard Requirements

General. This source is subject to the standard requirements in 40 CFR 72.9 (consistent with 40 CFR 76.8(e)(1)(i)). These requirements are listed in this source's Acid Rain Part of its Title V permit.

Special Provisions for Early Election Units

Nitrogen Oxides. A unit that is governed by an approved early election plan shall be subject to an emissions limitation for NO_x as provided under 40 CFR 76.8(a)(2) except as provided under 40 CFR 76.8(e)(3)(iii).


Liability. The owners and operators of a unit governed by an approved early election plan shall be liable for any violation of the plan or 40 CFR 76.8 at that unit. The owners and operators shall be liable, beginning January 1, 2000, for fulfilling the obligations specified in 40 CFR Part 77.

Termination. An approved early election plan shall be in effect only until the earlier of January 1, 2008 or January 1 of the calendar year for which a termination of the plan takes effect. If the designated representative of the unit under an approved early election plan fails to demonstrate compliance with the applicable emissions limitation under 40 CFR 76.5 for any year during the period beginning January 1 of the first year the early election takes effect and ending December 31, 2007, the permitting authority will terminate the plan. The termination will take effect beginning January 1 of the year after the year for which there is a failure to demonstrate compliance, and the designated representative may not submit a new early election plan. The designated representative of the unit under an approved early election plan may terminate the plan any year prior to 2008 but may not submit a new early election plan. In order to terminate the plan, the designated representative must submit a notice under 40 CFR 72.40(d) by January 1 of the year for which the termination is to take effect. If an early election plan is terminated any year prior to 2000, the unit shall meet, beginning January 1, 2000, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7. If an early election plan is terminated on or after 2000, the unit shall meet, beginning on the effective date of the termination, the applicable emissions limitation for NO_x for Phase II units with Group 1 boilers under 40 CFR 76.7.

STEP 3, cont'd.

Certification

I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name W. Jeffrey Pardue, C.E.P.	
Signature 	Date 12/19/97

