

December 10, 1981

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Docket No. 50-302

Mr. J. A. Hancock  
 Assistant Vice President - Nuclear  
 Operations  
 Florida Power Corporation  
 P. O. Box 14042, M.A.C.H.2.  
 St. Petersburg, Florida 33733



Dear Mr. Hancock:

The Commission has issued the enclosed Amendment No. 47 to Facility Operating License No. DPR-72 for the Crystal River Unit No. 3 Nuclear Generating Plant (CR-3). The amendment consists of changes to the Technical Specifications (TSs) in response to your application dated December 8, 1981 (TS Change Request No. 88).

This amendment revises Figure 3.1-7 of the TSs to be consistent with the operational Cycle 4 analysis that was provided by your application dated November 16, 1981. As stated in your December 8, 1981 application, your proposed TSs for Cycle 4 failed to include Figure 3.1-7 through an oversight, but your analysis of November 16, 1981, did include it. Subsequently, our approval of December 4, 1981, did not include the revised Figure 3.1-7. This amendment, an administrative change, corrects that deficiency.

Copies of the Safety Evaluation and the Notice of Issuance are also enclosed.

Sincerely,

~~XXXXXXXXXX~~ SIGNED BY

CP  
1

Peter B. Erickson, Project Manager  
 Operating Reactors Branch #4  
 Division of Licensing

Enclosures:

1. Amendment No. 47
2. Safety Evaluation
3. Notice

cc w/enclosures:  
 See next page

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 P PDR

\*SEE PREVIOUS WHITE FOR CONCURRENCES

OFFICE	ORB#4:DL Ringram;cf	ORB#4:DL Perickson*	C-ORB#4:DL JStolz*	AD:OR:DL INovak*	OELD*		
SURNAME							
DATE	12/10/81	12/9/81	12/9/81	12/ /81	12/ /81		

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Sincerely,

Peter B. Erickson, Project Manager  
 Operating Reactors Branch #4  
 Division of Licensing

Enclosures:

1. Amendment No.
2. Safety Evaluation
3. Notice

cc w/enclosures;  
 See next page

*FR NOTICE + AMENDMENT*

OFFICE	ORB#4:DL/RIngram;cf	ORB#4:DL/PERickson	C-ORB#4:DL/JStoiz	AD-OR:DL/Tivoyak	OEL/		
SURNAME					M. Korman		
DATE	12/9/81	12/9/81	12/9/81	12/16/81	12/10/81		

Crystal River Unit No. 3  
Florida Power Corporation

50-302

cc w/enclosure(s):

Mr. S. A. Brandimore  
Vice President and General Counsel  
P. O. Box 14042  
St. Petersburg, Florida 33733

Mr. Wilbur Langely, Chairman  
Board of County Commissioners  
Citrus County  
Iverness, Florida 32650

Regional Radiation Representative  
EPA Region IV  
345 Courtland Street, N.E.  
Atlanta, Georgia 30308

Crystal River Public Library  
668 N. W. First Avenue  
Crystal River, Florida 32629

Administrator  
Department of Environmental Regulation  
Power Plant Siting Section  
State of Florida  
2600 Blair Stone Road  
Tallahassee, Florida 32301

Attorney General  
Department of Legal Affairs  
The Capitol  
Tallahassee, Florida 32304

Mr. Robert B. Borsum  
Babcock & Wilcox  
Nuclear Power Generation Division  
Suite 220, 7910 Woodmont Avenue  
Bethesda, Maryland 20814

Mr. Tom Stetka, Resident Inspector  
U.S. Nuclear Regulatory Commission  
Route #3, Box 717  
Crystal River, Florida 32629

Mr. Dan C. Poole  
Nuclear Plant Manager  
Florida Power Corporation  
P. O. Box 219  
Crystal River, Florida 32629

cc w/enclosure(s) & incoming dtd.:  
12/8/81

Bureau of Intergovernmental Relations  
660 Apalachee Parkway  
Tallahassee, Florida 32304



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

FLORIDA POWER CORPORATION  
CITY OF ALACHUA  
CITY OF BUSHNELL  
CITY OF GAINESVILLE  
CITY OF KISSIMMEE  
CITY OF LEESBURG  
CITY OF NEW SMYRNA BEACH AND UTILITIES COMMISSION, CITY OF NEW SMYRNA BEACH  
CITY OF OCALA  
ORLANDO UTILITIES COMMISSION AND CITY OF ORLANDO  
SEBRING UTILITIES COMMISSION  
SEMINOLE ELECTRIC COOPERATIVE, INC.  
CITY OF TALLAHASSEE

DOCKET NO. 50-302

CRYSTAL RIVER UNIT 3 NUCLEAR GENERATING PLANT

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 47  
License No. DPR-72

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Florida Power Corporation, et al (the licensees) dated December 8, 1981, complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, the provisions of the Act, and the rules and regulations of the Commission;
  - C. There is reasonable assurance (i) that the activities authorized by this amendment can be conducted without endangering the health and safety of the public, and (ii) that such activities will be conducted in compliance with the Commission's regulations;
  - D. The issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public; and
  - E. The issuance of this amendment is in accordance with 10 CFR Part 51 of the Commission's regulations and all applicable requirements have been satisfied.

2. Accordingly, the license is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and paragraph 2.C.(2) of Facility Operating License No. DPR-72 is hereby amended to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 47, are hereby incorporated in the license. Florida Power Corporation shall operate the facility in accordance with the Technical Specifications.

3. This license amendment is effective as of the date of its issuance.

FOR THE NUCLEAR REGULATORY COMMISSION

*Morton B. Fairtle for*

John F. Stolz, Chief  
Operating Reactors Branch #4  
Division of Licensing

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: December 10, 1981

ATTACHMENT TO LICENSE AMENDMENT NO. 47

FACILITY OPERATING LICENSE NO. DPR-72

DOCKET NO. 50-302

Replace the following page of Appendix "A" Technical Specifications with the enclosed page. The revised page is identified by Amendment number and contains a vertical line indicating the area of change. The corresponding overleaf page is also provided to maintain document completeness.

3/4 1-34

## REACTIVITY CONTROL SYSTEMS

### ROD PROGRAM

#### LIMITING CONDITION FOR OPERATION

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3.1.3.7 Each control rod (safety, regulating and APSR) shall be programmed to operate in the core position and rod group specified in Figure 3.1-7.

APPLICABILITY: MODES 1\* and 2\*.

#### ACTION:

With any control rod not programmed to operate as specified above, be in HOT STANDBY within 1 hour.

#### SURVEILLANCE REQUIREMENTS

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##### 4.1.3.7

- a. Each control rod shall be demonstrated to be programmed to operate in the specified core position and rod group by:
  1. Selection and actuation from the control room and verification of movement of the proper rod as indicated by both the absolute and relative position indicators:
    - a) For all control rods, after the control rod drive patches are locked subsequent to test, reprogramming or maintenance within the panels.
    - b) For specifically affected individual rods, following maintenance, test, reconnection or modification of power or instrumentation cables from the control rod drive control system to the control rod drive.
  2. Verifying that each cable that has been disconnected has been properly matched and reconnected to the specified control rod drive.
- b. At least once each 7 days, verify that the control rod drive patch panels are locked.

\*See Special Test Exceptions 3.10.1 and 3.10.2.







UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION  
SUPPORTING AMENDMENT NO. 47 TO FACILITY OPERATING LICENSE NO. DPR-72  
FLORIDA POWER CORPORATION, ET AL  
CRYSTAL RIVER UNIT NO. 3 NUCLEAR GENERATING PLANT  
DOCKET NO. 50-302

Introduction

By application dated December 8, 1981, Florida Power Corporation (FPC) requested an amendment to Facility Operating License No. DPR-72 for Crystal River Unit No. 3 (CR-3). The amendment would revise Figure 3.1-7 of the Technical Specifications (TSs) to be consistent with the operational Cycle 4 application of November 16, 1981. FPC failed to include this Figure in their proposed TSs for Cycle 4 and, subsequently, our approval of December 4, 1981, of Cycle 4 did not include Figure 3.1-7.

Discussion and Evaluation

Figure 3.1-7 of the TSs shows control rod group assignments. The proposed change in this Figure involves an interchange of the designations of which safety rods are Group 1 and which are Group 2. This means an interchange in which safety rods are moved to their outer limits first. There is no change in the operating characteristics of the reactor with this change in group designation, however, because the reactor will operate with both Group 1 and Group 2 rods in their fully withdrawn position.

The change in the rod designations was proposed by FPC in the Cycle 4 application to reduce the amount of boration needed to maintain the required shutdown margins during certain modes of operation. During Hot Standby, trippable negative reactivity is maintained by withdrawing Group 1 rods. Since the proposed Group 1 rods are less reactive, less boron is needed to maintain shutdown margin. Reducing the amount of boration reduces the amount of waste generated during de-boration on a return to power operation.

Environmental Consideration

We have determined that the amendment does not authorize a change in effluent types or total amounts nor an increase in power level and will not result in any significant environmental impact. Having made this determination, we have further concluded that the amendment involves an action which is insignificant from the standpoint of environmental impact and, pursuant to 10 CFR §51.5(d)(4), that an environmental impact statement, or negative declaration and environmental impact appraisal need not be prepared in connection with the issuance of this amendment.

Conclusion

We have concluded, based on the considerations discussed above, that: (1) because the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin, the amendment does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

Dated: December 10, 1981

UNITED STATES NUCLEAR REGULATORY COMMISSIONDOCKET NO. 50-302FLORIDA POWER CORPORATION, ET ALNOTICE OF ISSUANCE OF AMENDMENT TO FACILITY  
OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 47 to Facility Operating License No. DPR-72, issued to the Florida Power Corporation, City of Alachua, City of Bushnell, City of Gainesville, City of Kissimmee, City of Leesburg, City of New Smyrna Beach and Utilities Commission, City of New Smyrna Beach, City of Ocala, Orlando Utilities Commission and City of Orlando, Sebring Utilities Commission, Seminole Electric Cooperative, Inc., and the City of Tallahassee (the licensees) which revised the Technical Specifications (TSs) for operation for the Crystal River Unit No. 3 Nuclear Generating Plant (the facility) located in Citrus County, Florida. The amendment is effective as of the date of issuance.

The amendment revises Figure 3.1-7 of the TSs to be consistent with operational Cycle 4 application. The licensee failed to include this figure in their proposed TSs for Cycle 4 and subsequently, our approval of December 4, 1981, of Cycle 4 did not include Figure 3.1-7. This amendment, an administrative change, corrects that deficiency.

The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of this amendment was not required since the amendment does not involve a significant hazards consideration.

-2-

The Commission has determined that the issuance of this amendment will not result in any significant environmental impact and that pursuant to 10 CFR §51.5(d)(4) an environmental impact statement or negative declaration and environmental impact appraisal need not be prepared in connection with issuance of this amendment.

For further details with respect to this action, see (1) the application for amendment dated December 8, 1981, (2) Amendment No. 47 to License No. DPR-72, and (3) the Commission's related Safety Evaluation. All of these items are available for public inspection at the Commission's Public Document Room, 1717 H Street, NW, Washington, D.C., and at the Crystal River Public Library, 668 N.W. First Avenue, Crystal River, Florida. A copy of items (2) and (3) may be obtained upon request addressed to the U.S. Nuclear Regulatory Commission, Washington, D.C. 20555, Attention: Director, Division of Licensing.

Dated at Bethesda, Maryland, this 10th day of December 1981.

FOR THE NUCLEAR REGULATORY COMMISSION

*Morton B. Fairtile*

Morton B. Fairtile, Acting Chief  
Operating Reactors Branch #4  
Division of Licensing