

JUN 10 1983

Docket No.: 50-389

Dr. Robert E. Uhrig, Vice President  
Advanced Systems and Technology  
Florida Power & Light Company  
Post Office Box 14000  
Juno Beach, Florida 33408

Dear Dr. Uhrig:

Subject: Issuance of Amendment No. 2 to Facility Operating License NPF-16  
St. Lucie Plant, Unit 2 and Issuance of Supplement No. 4 to the  
Safety Evaluation Report

The U. S. Nuclear Regulatory Commission has issued the enclosed Amendment  
No. 2 to Facility Operating License No. NPF-16 for the St. Lucie Plant, Unit  
2 located in St. Lucie County, Florida. This amendment authorizes operation  
at power levels up to 100 percent of full rated power, 2560 megawatts thermal.  
A copy of the related Supplement No. 4 to the Safety Evaluation Report is  
also enclosed. Additional copies will be forwarded to you following printing.

Sincerely,

Original signed by  
George W. Knighton

George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

Enclosures:

- 1. Amendment No. 2
- 2. Supplement No. 4 to SER (NUREG-0843)

cc w/encls.: See next page

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| DATE    | 6/10/83  | 6/10/83  | 6/1/83 | 6/10/83       |  |  |  |

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FLORIDA POWER AND LIGHT COMPANY

ORLANDO UTILITIES COMMISSION OF THE CITY OF ORLANDO, FLORIDA

AND

FLORIDA MUNICIPAL POWER AGENCY

DOCKET NO. 50-389

ST. LUCIE PLANT, UNIT 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 2  
License No. NPF-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for license filed by the Florida Power and Light Company, on behalf of itself and Orlando Utilities Commission of the City of Orlando, Florida and Florida Municipal Power Agency (licensees) complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations set forth in 10 CFR Chapter I;
  - B. The facility will operate in conformity with the application, as amended, the provisions of the Act, and the 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 set forth in 10 CFR Chapter I;
  - D. The Florida Power & Light Company\* is technically qualified to engage in the activities authorized by this amendment in accordance with the Commission's regulations set forth in 10 CFR Chapter I.
  - E. 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

\*Florida Power & Light Company is authorized to act as agent for the Orlando Utilities Commission of the City of Orlando, Florida and Florida Municipal Power Agency and has exclusive responsibility and control over the physical construction, operation and maintenance of the facility.

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F. 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. Facility Operating License No. NPF-16 is amended as follows:

A. Paragraph 2.C.(1) is hereby modified to read as follows:

1. Maximum Power Level

Florida Power and Light Company is authorized to operate the facility at reactor core power levels not in excess of 2560 megawatts thermal (100% power).

B. Paragraph 2.C.(2) is hereby modified to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendix A and the Environmental Protection Plan contained in Appendix B, as revised through Amendment No. 2, are hereby incorporated in this license. Florida Power and Light Company shall operate the facility in accordance with the Technical Specifications and the Environmental Protection Plan.

C. Paragraph 2.C.(4) is hereby modified to read as follows:

4. Environmental Qualification of Mechanical and Electrical Equipment (Section 3.11, SSER 4)

Prior to startup following the first refueling outage but not later than March, 1985 the licensee shall environmentally qualify all electrical equipment as required by 10 CFR 50.49.

D. Paragraph 2.C.(17)(a)(1) is hereby modified to read as follows:

a. Emergency Response Capability (I.C.9, I.D.1, I. D.2, 7.5.4, 13.3.2.8, SSER 4)

1) The licensee shall implement the requirements of Generic Letter No. 82-33 on the following schedule:

a) Prior to startup following the first refueling outage, the Safety Parameter Display System (SPDS) shall be operable, including training of operators.

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- b) By September 30, 1983 the licensee shall submit for NRC review and approval a detailed control room design review summary report.
- c) By November 30, 1983 the licensee shall submit for NRC review and approval a Regulatory Guide 1.97 Evaluation Report describing how Regulatory Guide 1.97 has been met and justifications for any deviations.
- d) By November 1, 1983 the licensee shall submit for NRC review and approval plant specific Emergency Operating Procedures descriptions. By July 1, 1984, the licensee shall implement the upgraded Emergency Operating Procedures including SPDS and control room upgrades.
- e) By October 1983, the permanent Emergency Operating Facility shall be operational.

E. Paragraph 2.C.7 is hereby modified to read as follows:

7. Natural Circulation Cooldown and Boron Mixing Test (Section 5.4.3, SSER 4)

Prior to completing the startup test program, the licensees shall either a) provide a report of the San Onofre Unit 2 test justifying that the test data is applicable to St. Lucie 2 assuring adequate boron mixing during natural circulation cooldown or b) perform the test to demonstrate adequate boron mixing during natural circulation cooldown.

F. Paragraph 2.C.18 is hereby added as follows:

18. Reactor Trip Breakers Post-Trip Review Procedures (Section 7.2.3.1, SSER 4)

Within 60 days of issuance of this amendment, the licensee shall provide the upgraded post-trip review procedures for NRC staff review.

G. Control Room Design Review (Section 22.1.D.1, SSER 4)

Item A.1.3 of Appendix E has been modified. The revised Appendix E is attached.

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

FOR THE NUCLEAR REGULATORY COMMISSION

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Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Attachment:  
Appendix E (Revised)

Date of Issuance: JUN 10 1983

|         |           |             |            |                  |          |            |  |
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| DATE    | 6/10/83   | 6/10/83     | 6/10/83    | 6/10/83          | 6/16/83  | 6/10/83    |  |

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Appendix E  
Human Engineering Discrepancies  
License No. NPF-16

- A.1.3 Key storage will be provided as well as the necessary key access control procedures for those keys used in the Control Room and Remote Shutdown Panel.
- A.1.6 A re-evaluation of the glare problem will be performed after the diffusing grid has been installed. Those items then still found to have glare problems will have suitable backfits implemented.
- A.1.9 The Remote Control Transfer Panels will have a security seal for security purposes. Operations of any control transfer switch is annunciated in the control room.
- A.2.1 The SL-2 communications system is currently under design. The system will be reviewed in accordance with the communications section of NUREG-0700.
- A.3.3 Multiple input annunciator windows will undergo assessment as to reflash capability. Any that do not "reflash" and require the function will be provided with the "reflash" and "readable" function.
- A.3.9 Blank annunciator tiles will be extinguished.
- A.5.6 Glare and potential face plate scratching will be addressed through display shielding to reduce incident light to the display surface and protect face plates.
- A.5.12 A lighting color convention will be established.
- A.5.18 This item will be addressed as part of the ongoing labeling and demarcation program.
- A.5.23 The boron concentration recorder will use lined unscaled paper. Recorder Panel 201 will have proper scales. Recorder Panel 202 will have proper scales.
- A.6.1 All labels will be reviewed as part of the labeling study. Those missing labels will be installed and those incorrect labels will be corrected.

UNITED STATES NUCLEAR REGULATORY COMMISSION

DOCKET NO. 50-389

ST. LUCIE PLANT, UNIT 2

FLORIDA POWER & LIGHT COMPANY, ET AL

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE NPF-16

Pursuant to the Commission meeting held on June 10, 1983, the U. S. Nuclear Regulatory Commission (the Commission), has issued Amendment No. 2 to Facility Operating License No. NPF-16, issued to Florida Power & Light Company, Orlando Utilities Commission of the City of Orlando and Florida Municipal Power Agency (licensees) for the St. Lucie Plant, Unit 2 (facility) located at the licensees' site on Hutchinson Island in St. Lucie County, Florida. This amendment is effective as of the date of issuance.

This amendment authorizes operation at power levels up to 100% of full rated power, 2560 megawatts thermal, in accordance with the provisions of the License as amended, the Technical Specifications as amended, and the Environmental Protection Plan.

Issuance of the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's regulations. The Commission has made appropriate findings as required by the Act and the Commission regulations in 10 CFR Chapter I, which are set forth in the license amendment. Prior public notice of the overall action involving the proposed issuance of an operating license authorizing full power operation was published in the FEDERAL REGISTER on March 9, 1981 (46 F.R. 15831).

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The Commission has determined that the issuance of this amendment will not result in any environmental impacts other than those evaluated in the Final Environmental Statement since the activity authorized by this amendment is encompassed by the overall action evaluated in the Final Environmental Statement.

For further details with respect to this action, see (1) Amendment No. 2 to Facility Operating License No. NPF-16 and (2) the Commission's Supplement no. 4 to the Safety Evaluation Report (NUREG-0843). These items are available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C., and the Indian River Community College Library, 3209 Virginia Avenue, Ft. Pierce, Florida 33450. A copy of the above item (1) may be obtained upon request addressed to the U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, Attention: Director, Division of Licensing. Copies of the Safety Evaluation Report and its Supplement 1 through 4 (NUREG-0843) may be purchased at current rates from the National Technical Information Service, U. S. Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161.

Dated at Bethesda, Maryland, the 10<sup>th</sup> day of June 10, 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by  
George W. Knighton

George W. Knighton, Chief  
Licensing Branch No. 3  
Division of Licensing

*Handwritten signature and date: J. W. Knighton 6/10/83*

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ISSUANCE OF AMENDMENT NO. 2 TO FACILITY OPERATING LICENSE NPF-16 ST. LUCIE  
PLANT, UNIT 2 AND ISSUANCE OF SUPPLEMENT NO. 4 TO THE SAFETY EVALUATION  
REPORT

DISTRIBUTION

June 10, 1983

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