



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 9

TO FACILITY OPERATING LICENSE NO. NPF-16

FLORIDA POWER & LIGHT COMPANY, ET AL.

ST. LUCIE PLANT, UNIT NO. 2

DOCKET NO. 50-389

INTRODUCTION

By letter dated November 21, 1984, the Florida Power & Light Company (FP&L) submitted a request to amend Operating License No. NPF-16 for the St. Lucie Plant, Unit No. 2 (Ref. 1). The requested amendment would increase the presently licensed rated core power level of 2560 MWt to 2700 MWt. The NRC has previously approved the FP&L request to reload and operate Unit 2 of the St. Lucie Plant for Cycle 2 (Ref. 2). The staff approval was based on the reload safety analysis report (Ref. 3) and other supporting documents submitted by FP&L.

EVALUATION

The licensee's analysis incorporated and bounded operation for core power levels up to 2700 MWt, though operation at this power was not requested by the licensee at the time of the reload submittal. NRC approval was, therefore, given for operation of Cycle 2 at a continued power level of 2560 MWt, the same core power approved and licensed for the initial fuel cycle operation.

The previously approved reload safety report for Cycle 2 presented analyses (at a core power level of 2700 MWt) for the entire spectrum of anticipated operational occurrences and postulated accidents. The staff reviewed and evaluated these analyses from the standpoint of acceptable safety limits and design criteria. These included specified acceptable fuel design limits (SAFDL), loss of coolant accident (LOCA) criteria specified in 10 CFR 50.46, offsite dose limits, reactor coolant pressure limits, and containment design criteria. The consequences of these events were found to meet all safety limits and criteria. In addition, the analytical methods used were previously found acceptable by the NRC. The staff, therefore, concludes that St. Lucie Plant Unit No. 2 can be operated at a rated thermal power level of 2700 MWt.

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ENVIRONMENTAL CONSIDERATION

In connection with the issuance of this amendment, an "Environmental Assessment and Finding of No Significant Impact" was prepared and published in the Federal Register on (50 FR 7422).

CONCLUSION

We have concluded, based on the considerations discussed above, that (1) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (2) 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.

Date: March 1, 1985

Principal Contributors:

L. Kopp  
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## REFERENCES

1. Letter from J. W. Williams, Jr. to D. G. Eisenhut, L-84-354, St. Lucie Unit No. 2, Docket No. 50-389, Proposed License Amendment, Stretch Power, dated November 21, 1984.
2. St. Lucie Plant Unit 2 Amendment to Facility Operating License; Amendment No. 8; License No. NPF-16; November 9, 1984.
3. Letter from J. W. Williams, Jr. to D. G. Eisenhut, L-84-148, transmitting Reload Safety Report, St. Lucie 2 Cycle 2, Operation at 2560 MWt, June 4, 1984.

UNITED STATES NUCLEAR REGULATORY COMMISSION

FLORIDA POWER & LIGHT COMPANY, ET AL.

DOCKET NO. 50-389

ST. LUCIE PLANT UNIT NO. 2

NOTICE OF ISSUANCE OF AMENDMENT TO FACILITY OPERATING LICENSE

The U. S. Nuclear Regulatory Commission (the Commission) has issued Amendment No. 9 to Facility Operating License No. NPF-16 issued to Florida Power & Light Company, the Orlando Utilities Commission of the City of Orlando, Florida, and the Florida Municipal Power Agency (the licensee), which revised the Technical Specifications for operation of the St. Lucie Plant, Unit No. 2 (the facility), located in St. Lucie County, Florida. The amendment was effective as of the date of its issuance.

The amendment revised the Technical Specifications to allow operation of St. Lucie 2 at a power level of 2700 MWt.

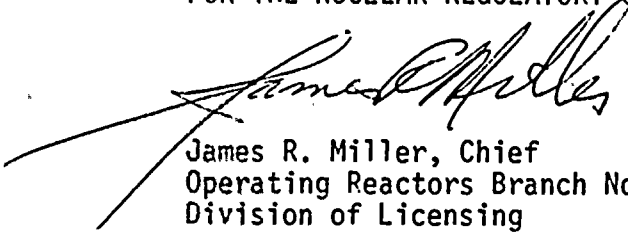
The application for the amendment complies with the standards and requirements of the Atomic Energy Act of 1954, as amended (the Act), and the Commission's rules and regulations. The Commission has made appropriate findings as required by the Act and the Commission's rules and regulations in 10 CFR Chapter I, which are set forth in the license amendment.

Notice of Consideration of Issuance of Amendment and Opportunity for Prior Hearing in connection with this action was published in the FEDERAL REGISTER on December 26, 1984 (49 FR 50131). No request for a hearing or petition for leave to intervene was filed following this notice.

For further details with respect to this action see (1) the application for amendment dated November 21, 1984, (2) Amendment No. 9 to Facility Operating License No. NPF-16, 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, N.W., Washington, D.C. and at the Indian River Junior College Library, 3209 Virginia Avenue, Fort Pierce, 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 1st day of March, 1985.

FOR THE NUCLEAR REGULATORY COMMISSION



James R. Miller, Chief  
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