

May 02, 1991

Docket No. 50-389

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Mr. J. H. Goldberg  
President - Nuclear Division  
Florida Power and Light Company  
P.O. Box 14000  
Juno Beach, Florida 33408-0420

Dear Mr. Goldberg:

SUBJECT: ST. LUCIE UNIT 2 - ISSUANCE OF AMENDMENT RE: INDEPENDENT SAFETY  
ENGINEERING GROUP (TAC NO. 77521)

The Commission has issued the enclosed Amendment No. 49 to Facility Operating License No. NPF-16 for the St. Lucie Plant, Unit No. 2. This amendment consists of changes to the Technical Specifications in response to your application dated August 16, 1990.

This amendment revises the Independent Safety Engineering Group (ISEG) reporting and administrative requirements needed as a result of organizational changes within the Nuclear Energy Department.

A copy of the Safety Evaluation is also enclosed. The Notice of Issuance will be included in the Commission's biweekly Federal Register notice.

Sincerely,

(Original Signed By)

Jan A. Norris, Senior Project Manager  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Enclosures:

- 1. Amendment No. 49 to NPF-16
- 2. Safety Evaluation

cc w/enclosures:  
See next page

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DATED: May 02, 1991

AMENDMENT NO. 49 TO FACILITY OPERATING LICENSE NO. NPF-16 - ST. LUCIE, UNIT 2

Docket File

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Florida Power & Light Company

St. Lucie Plant

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

FLORIDA POWER & LIGHT COMPANY

ORLANDO UTILITIES COMMISSION OF

THE CITY OF ORLANDO, FLORIDA

AND

FLORIDA MUNICIPAL POWER AGENCY

DOCKET NO. 50-389

ST. LUCIE PLANT UNIT NO. 2

AMENDMENT TO FACILITY OPERATING LICENSE

Amendment No. 49  
License No. NPF-16

1. The Nuclear Regulatory Commission (the Commission) has found that:
  - A. The application for amendment by Florida Power & Light Company, et al. (the licensee), dated August 16, 1990, 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.

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2. Accordingly, Facility Operating License No. NPF-16 is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and by amending paragraph 2.C.2 to read as follows:

2. Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 49 , are hereby incorporated in the license. The licensee 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



Herbert N. Berkow, Director  
Project Directorate II-2  
Division of Reactor Projects - I/II  
Office of Nuclear Reactor Regulation

Attachment:  
Changes to the Technical  
Specifications

Date of Issuance: May 02, 1991

ATTACHMENT TO LICENSE AMENDMENT NO. 49  
TO FACILITY OPERATING LICENSE NO. NPF-16  
DOCKET NO. 50-389

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

Remove Page

6-6

Insert Page

6-6

**Table 6.2-1**  
**MINIMUM SHIFT CREW COMPOSITION**  
**TWO UNITS WITH TWO SEPARATE CONTROL ROOMS**

WITH UNIT 1 IN MODE 5 OR 6 OR DEFUELED		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3, or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	2 <sup>b</sup>
STA	1	None

WITH UNIT 1 IN MODE 1, 2, 3 OR 4		
POSITION	NUMBER OF INDIVIDUALS REQUIRED TO FILL POSITION	
	MODE 1, 2, 3, or 4	MODE 5 or 6
SS (SRO)	1 <sup>a</sup>	1 <sup>a</sup>
SRO	1	None
RO	2	1
AO	2	1
STA	1 <sup>a</sup>	None

- SS - Shift Supervisor with a Senior Reactor Operator's License on Unit 2
- SRO - Individual with a Senior Reactor Operator's License on Unit 2
- RO - Individual with a Reactor Operator's License on Unit 2
- AO - Auxiliary Operator
- STA - Shift Technical Advisor

Except for the Shift Supervisor, the Shift Crew Composition may be one less than the minimum requirements of Table 6.2-1 for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the Shift Crew Composition to within the minimum requirements of Table 6.2-1. This provision does not permit any shift crew position to be unmanned upon shift change due to an oncoming shift crewman being late or absent.

During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 1, 2, 3 or 4, an individual (other than the Shift Technical Advisor) with a valid SRO license shall be designated to assume the Control Room command function. During any absence of the Shift Supervisor from the Control Room while the unit is in MODE 5 or 6, an individual with a valid SRO or RO license shall be designated to assume the Control Room command function.

a/ Individual may fill the same position on Unit 1

b/ One of the two required individuals may fill the same position on Unit 1.

6.2.3 INDEPENDENT SAFETY ENGINEERING GROUP (ISEG)

FUNCTION

6.2.3.1 The ISEG shall function to examine plant operating characteristics, NRC issuances, industry advisories, Licensee Event Reports and other sources of plant design and operating experience information, including plants of similar design, which may indicate areas for improving plant safety.

COMPOSITION

6.2.3.2 The ISEG shall be composed of five dedicated, full-time members with varied backgrounds and disciplines related to nuclear power plants. Three or more of the members shall be engineers with a bachelor degree in engineering or a related science, with at least 2 years of professional level experience in the nuclear field. Any nondegreed ISEG members will either be licensed as a Reactor Operator or Senior Reactor Operator, or will have been previously licensed as a Reactor Operator or Senior Reactor Operator within the last year at the St. Lucie Plant site; or they will meet the qualifications of a department head as specified in Specification 6.3.1 of the St. Lucie Unit 2 Technical Specifications. The qualifications of each nondegreed candidate for the ISEG shall be approved by the Chairman, Company Nuclear Review Board (CNRB) prior to joining the group.

RESPONSIBILITIES

6.2.3.3 The ISEG shall be responsible for maintaining surveillance of selected plant activities to provide independent verification\* that these activities are performed correctly and that human errors are reduced as much as practical. The ISEG shall make detailed recommendations for revised procedures, equipment modifications, maintenance activities, operations activities, or other means of improving plant safety to the Chairman, CNRB.

AUTHORITY

6.2.3.4 The ISEG is an onsite independent technical review group that reports offsite to the Chairman, CNRB. The ISEG shall have the authority necessary to perform the functions and responsibilities as delineated above.

RECORDS

6.2.3.5 Records of activities performed by the ISEG shall be prepared, maintained and a report of the activities forwarded each calendar month to the Chairman, CNRB.

6.2.4 SHIFT TECHNICAL ADVISOR

The Shift Technical Advisor function is to provide on shift advisory technical support in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit.

6.3 UNIT STAFF QUALIFICATIONS

6.3.1 Each member of the unit staff shall meet or exceed the minimum qualifications of ANSI/ANS-3.1-1978 as endorsed by Regulatory Guide 1.8, September 1975 (reissued May 1977), except for the (1) Health Physics Supervisor who shall meet

\*Not responsible for sign-off function.





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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

RELATED TO AMENDMENT NO. 49

TO FACILITY OPERATING LICENSE NO. NPF-16

FLORIDA POWER & LIGHT COMPANY, ET AL.

ST. LUCIE PLANT, UNIT NO. 2

DOCKET NO. 50-389

1.0 INTRODUCTION

By application dated August 16, 1990, Florida Power & Light Company (FPL, the licensee) requested changes to the Technical Specifications (TS) for the St. Lucie Plant, Unit No. 2. The licensee proposed to make administrative changes to reflect organizational changes in the FPL corporate structure.

2.0 EVALUATION

2.1 Reporting Requirements

The licensee has proposed to change Section 6.2.3 of the St. Lucie Unit 2 TS which requires that the Independent Safety Engineering Group (ISEG) report to the Assistant Chief Engineer - Power Plant Engineering. Instead, the licensee proposes that the ISEG report to the Chairman, Company Nuclear Review Board (CNRB). Similarly, the qualifications of each nondegreed candidate for the ISEG would be approved by the Chairman, Company Nuclear Review Board (CNRB), instead of the Assistant Chief Engineer - Power Plant Engineering.

FPL implemented organizational changes to include the nuclear plant engineering staff within the Nuclear Energy Department. As a result of these organizational changes, the position of Assistant Chief Engineer - Power Plant Engineering was eliminated from the nuclear organization. The ISEG currently reports to the Manager Nuclear Engineering Technical, the Nuclear Energy Department position most closely resembling the level of responsibility of the prior Assistant Chief Engineer - Power Plant Engineering position.

The ISEG is responsible for independent review of a variety of topics, not all of which are under the direct control of the nuclear engineering corporate staff organization, e.g., plant operations, maintenance, operational analysis, etc. As a result, the oversight responsibility of the ISEG deals with more broadly based issues than purely "engineering" related issues and encompasses diverse nuclear topics ranging from maintenance to operations to chemistry and

radiation controls. Therefore, it is preferable that the ISEG report to the corporate officer who has broader responsibility and authority than just engineering.

FPL's newly established Nuclear Division maintains control of, and responsibility for, nuclear power plant design, preoperational and start-up testing, operation, maintenance, refueling, and modification of FPL's nuclear power plants in accordance with written approved procedures. The President, Nuclear Division, has overall responsibility for the Nuclear Division's activities.

The CNRB reports to and advises the President, Nuclear Division, in those areas of responsibility specified in Sections 6.5.2.7 and 6.5.2.8 of the TS. The CNRB is composed of executive level members of management who are responsible for the execution of the Quality Assurance Program. The CNRB reviews, or directs, the performance of reviews of activities concerning the technical aspects of the operating nuclear power plant insofar as they impact plant safety, the health and safety of the public, and laws, regulations and licensing commitments. In addition, audits of these areas are performed under the cognizance of the CNRB.

As a result of the organizational placement, authority, and qualifications of the Chairman, CNRB, he is uniquely qualified to review the reports of the ISEG. His day-to-day activities put him in the best position to appreciate all aspects of the independent examination of plant operating characteristics, NRC issuances, and other appropriate sources of plant design and operating experience information that may indicate opportunities for further enhancing plant safety. Therefore, the NRC staff agrees that the ISEG should report to the Chairman, CNRB.

The staff has reviewed the organizational structure of FPL's Nuclear Division and agrees with the licensee's conclusions that the Chairman of the CNRB is the appropriate position to which the ISEG should report and that the Chairman should also approve the qualifications of the nondegreed ISEG candidates. Therefore, the staff finds that the above changes are acceptable.

## 2.2 Composition of ISEG

Section 6.2.3.2 of the TS currently requires that, for the ISEG, "No more than two members shall be assigned from any one department." This requirement was based on the fact that ISEG members were temporarily assigned to the ISEG from other FPL departments for fixed periods of time (i.e., 1 year) on a rotational assignment basis. The licensee proposes to delete that sentence.

In the new organizational structure, the ISEG is administratively a part of the Nuclear Assurance Department, and its members are organizationally and permanently assigned to that department. Deletion of the requirement that "No more than two members shall be assigned from any one department" only reflects the new organizational structure and does not alter the substance of ISEG's composition. For these reasons, the staff finds that change acceptable.

### 3.0 STATE CONSULTATION

Based upon the written notice of the proposed amendment, the Florida State official had no comments.

### 4.0 ENVIRONMENTAL CONSIDERATION

This amendment relates to changes in administrative procedures. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(10). Pursuant 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of the amendment.

### 5.0 CONCLUSION

The Commission has concluded, based on the considerations discussed above, that (1) there is a reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, (2) such activities will be conducted in compliance with the Commission's regulations, and (3) the issuance of the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Principal Contributor: J. Norris

Date: May 02, 1991