

50-395

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO:

Mr. Victor Stello

FROM:

Florida Power & Light Company
Miami, Florida
Robert E. Uhrig

DATE OF DOCUMENT

12/19/77

DATE RECEIVED

12/23/77

☒ LETTER

☐ NOTORIZED

PROP

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NUMBER OF COPIES RECEIVED

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3 5/6260

DESCRIPTION

ENCLOSURE

License No. DPR-67 Appl for Amend: tech specs proposed change concerning modification of the incore monitoring alarm setpoints & the excore monitoring power scaling factor to be more conservative than the current tech specs by 1/2%...notorized 12/19/77.....

PLANT NAME : St. Lucie Unit No. 1
RJL 12/27/77

(2-P)

(1-P)+(1-P)

40 ENCL.

SAFETY

FOR ACTION/INFORMATION

ENVIRONMENTAL

ASSIGNED AD:

ASSIGNED AD: V. MOORE (LTR)

BRANCH CHIEF: (7) DAVIS

BRANCH CHIEF:

PROJECT MANAGER:

PROJECT MANAGER:

LIC. ASST:

LIC. ASST:

B. HARLESS

INTERNAL DISTRIBUTION

☒ REG FILES

SYSTEMS SAFETY

PLANT SYSTEMS

SITE SAFETY &

☒ NRC PDR

R. MATTSON

TEDESCO

ENVIRON ANALYSIS

☒ I & E (2)

SCHROEDER

BENAROYA

DENTON & MULLER

☒ OFLD

ENGINEERING

IPPOLITO

CRUTCHFIELD

☒ GOSSICK & STAFF

KNIGHT

F. ROSA

ENVIRON TECH

☒ HANAUER

BOSNAK

OPERATING REACTORS

ERNST

MIPC

SIHWEIL

STELLO

BALLARD

CASE

PAWLICKI

EISENHUT

YOUNGBLOOD

ROYD

PROJECT MANAGEMENT

REACTOR SAFETY

SHAO

SITE TECH

SKOVHOLT

ROSS

BAER

GAMMILL (2)

P. COLLINS

NOVAK

BUTLER

SITE ANALYSIS

HOUSTON

ROSZTOCZY

GRIMES

VOLLMER

MELTZ

CHECK

J. Mc Gough

BUNCH

HELTEMES

AT & I

J. COLLINS

KREGER

SK

SALTZMAN

RUTBERG

EXTERNAL DISTRIBUTION

CONTROL NUMBER

☒ LPDR: FT. PIERCE, FLA.

NAT LAB:

☒ TIC

☒ NSIC

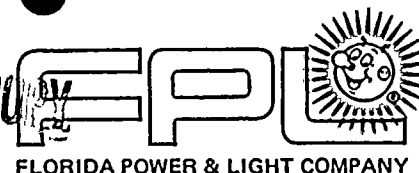
☒ REG V (J. HANCHETT)

☒ 16 CYS SENT CATEGORY

TO ACRS

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GD

REGULATORY DOCKET FILE COPY
REGULATORY DOCKET FILE COPY



December 19, 1977
L-77-386

Director of Nuclear Reactor Regulation
Attention: Mr. Victor Stello, Director
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555



Dear Mr. Stello:

Re: St. Lucie Unit 1
Docket No. 50-335
Proposed Amendment to
Facility Operating License DPR-67

In accordance with 10 CFR 50.30, Florida Power & Light Company (FPL) submits herewith three (3) signed originals and forty (40) copies of a request to amend Appendix A of Facility Operating License DPR-67.

Due to information received from the St. Lucie Nuclear Steam Supply System vendor, FPL proposes to modify the incore monitoring alarm setpoints and the excore monitoring power scaling factor to be more conservative than the current Technical Specification by 1/2%.

The proposed amendment will involve Technical Specification changes as described below and as shown on the accompanying Technical Specification pages bearing the date of this letter in the lower right hand corner.

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Specification 4.2.1.3.c is revised to incorporate additional conservatism of 1/2%. The relationship

$$\frac{L}{17.0} \times M \text{ will become } \frac{L}{17.0(1.005)} \times M = \frac{L}{17.09} \times M$$

Also, new Specification 4.2.1.4.b.6 incorporates the additional conservatism of 1/2% by adding a water hole peaking factor bias of 1.005.

The detailed explanation and safety analysis for this change are contained in the letter from A. D. Scherrer (Combustion Engineering) to K. Kniel (NRC) dated December 15, 1977 and was further described by CE in a meeting with the NRC on December 16, 1977.

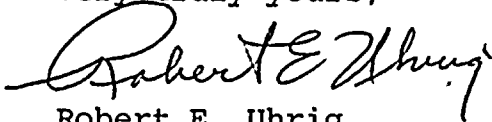
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Mr. Victor Stello, Director
Division of Operating Reactors
Page Two

As these modifications are in the conservative direction, we have implemented them as of December 15, 1977 and will operate St. Lucie Unit 1 under these modified specifications for the remainder of Cycle 1.

The proposed amendment has been reviewed by the FRG and CNRB, and the conclusion reached that it does not involve a significant hazards consideration.

Very truly yours,



Robert E. Uhrig
Vice President

REU/RRJ/MAS/lah

Attachment

cc: Mr. James P. O'Reilly, Region II
Robert Lowenstein, Esquire
Edward Reeves



100-1-10000

100-1-10000

POWER DISTRIBUTION LIMITS

SURVEILLANCE REQUIREMENTS (Continued)

- c. Verifying at least once per 31 days that the THERMAL POWER does not exceed the value determined by the following relationship:

$$\frac{L}{17.09} \times M$$

where:

1. L is the maximum allowable linear heat rate as determined from Figure 3.2-1 and is based on the core average burnup at the time of the latest incore flux map.
2. M is the maximum allowable THERMAL POWER level for the existing Reactor Coolant Pump combination.

4.2.1.4 Incore Detector Monitoring System - The incore detector monitoring system may be used for monitoring the core power distribution by verifying that the incore detector Local Power Density alarms:

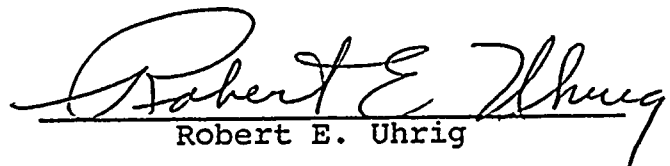
- a. Are adjusted to satisfy the requirements of the core power distribution map which shall be updated at least once per 31 days.
- b. Have their alarm setpoint adjusted to less than or equal to the limits shown on Figure 3.2-1 when the following factors are appropriately included in the setting of these alarms:
 1. Flux peaking augmentation factors as shown in Figure 4.2-1,
 2. A measurement-calculation uncertainty factor of 1.10,
 3. An engineering uncertainty factor of 1.03,
 4. A linear heat rate uncertainty factor of 1.01 due to axial fuel densification and thermal expansion, and
 5. A THERMAL POWER measurement uncertainty factor of 1.02.
 6. A water hole peaking factor bias of 1.005.

STATE OF FLORIDA)
)
COUNTY OF DADE) ss.

Robert E. Uhrig, being first duly sworn, deposes and says:

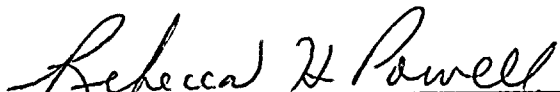
That he is a Vice President of Florida Power & Light Company,
the Licensee herein;

That he has executed the foregoing document; that the state-
ments made in this said document are true and correct to the
best of his knowledge, information, and belief, and that he
is authorized to execute the document on behalf of said
Licensee.


Robert E. Uhrig

Subscribed and sworn to before me this

19 day of December, 1977


NOTARY PUBLIC, in and for the County of Dade,
State of Florida

My commission expires: NOTARY PUBLIC STATE OF FLORIDA
MY COMMISSION EXPIRES APRIL 2, 1980
BONDED THROUGH MAYNARD FIDELITY ASSURANCE

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