

AUG 10 1984

Docket No. 50-389

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Mr. J. W. Williams, Jr.
Vice President
Nuclear Energy Department
Florida Power & Light Company
P. O. Box 14000
Juno Beach, Florida 33408

Dear Mr. Williams:

SUBJECT: ISSUANCE OF AMENDMENT NO. 6 TO FACILITY OPERATING LICENSE
NPF-16, ST. LUCIE PLANT, UNIT NO. 2

The U.S. Nuclear Regulatory Commission has issued the enclosed Amendment No. 6 to Facility Operating License No. NPF-16 for the St. Lucie Plant, Unit No. 2 located in St. Lucie County, Florida. The amendment consists of changes to the Technical Specifications (TS) in response to your application dated December 22, 1983.

The amendment changes Axial Shape Index Figures 3.2-2 and 3.2-4 to reflect the fact that the Limiting Conditions for Operation are not needed below 30% of rated thermal power.

A copy of the Safety Evaluation is also enclosed. The notice of issuance will be included in the Commission's next regular monthly Federal Register notice.

Sincerely,

Original signed by:

Donald E. Sells, Project Manager
Operating Reactors Branch #3
Division of Licensing

Enclosure:

1. Amendment No. 6 to NPF-16
2. Safety Evaluation

cc: See next page

ORB#3:DL
PKreutzer
7/16/84

ORB#3:DL
DEsells:dd
7/16/84

ORB#3:DL
JRMiller
7/16/84

OELD
W.D. Peters
7/31/84

AD:OR:DL
GCLatnas
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Handwritten notes and signatures:
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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. 6
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 December 22, 1983 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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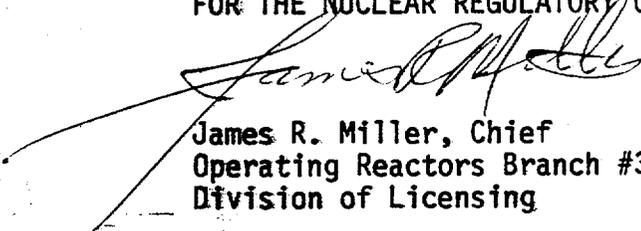
2. Accordingly, Facility Operating License No. NPF-16 is amended by changes to the Technical Specifications as indicated in the attachment to this license amendment, and by amending paragraph 2.C.(2) to read as follows:

(2) Technical Specifications

The Technical Specifications contained in Appendices A and B, as revised through Amendment No. 6, 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



James R. Miller, Chief
Operating Reactors Branch #3
Division of Licensing

Attachment:
Changes to the Technical
Specifications

Date of Issuance: August 10, 1984

ATTACHMENT TO LICENSE AMENDMENT NO. 6
TO FACILITY OPERATING LICENSE NO. NPF-16
DOCKET NO. 50-389

Replace the following pages of the Appendix "A" Technical Specifications with the enclosed pages. The revised pages are identified by amendment number and contain vertical lines indicating the area of change. The corresponding overleaf pages are also provided to maintain document completeness.

Pages

3/4 2-4
3/4 2-12

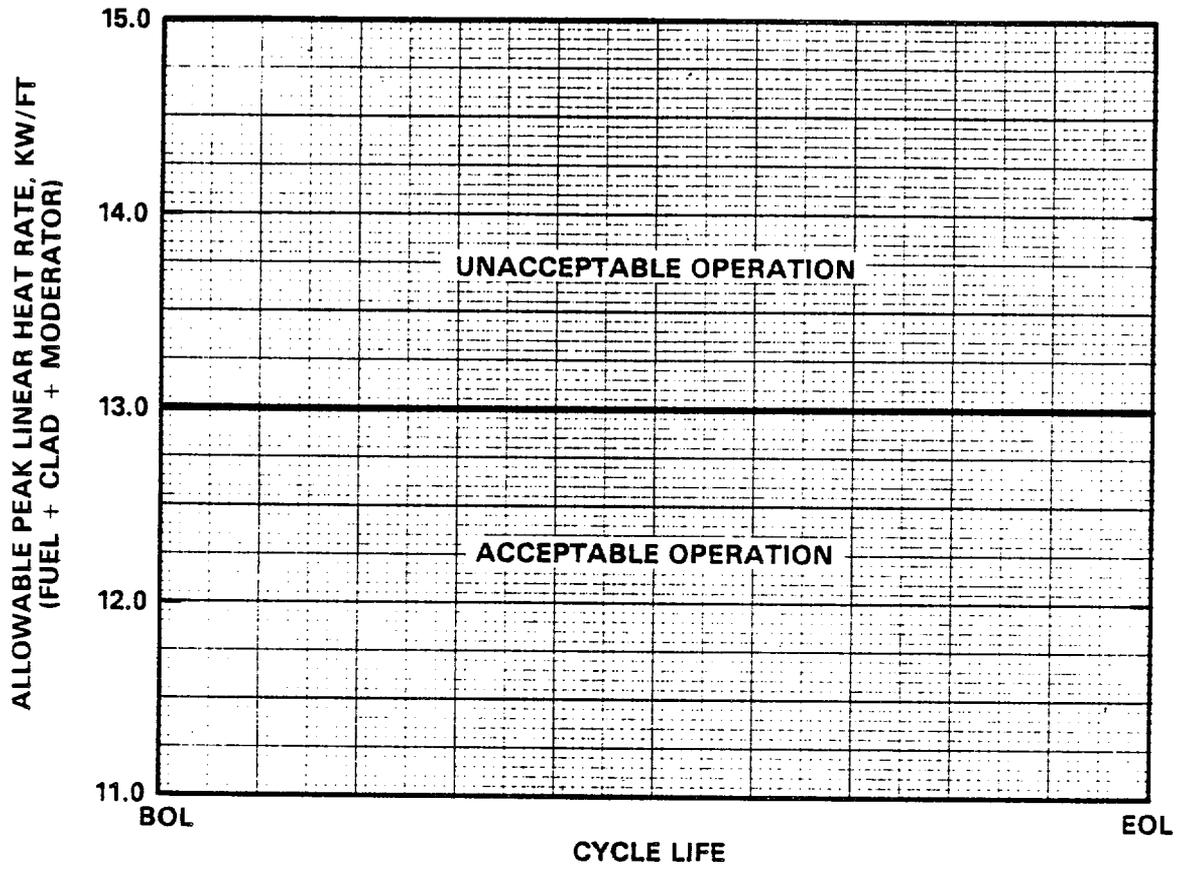


Figure 3.2-1
 Allowable peak linear heat rate vs burnup

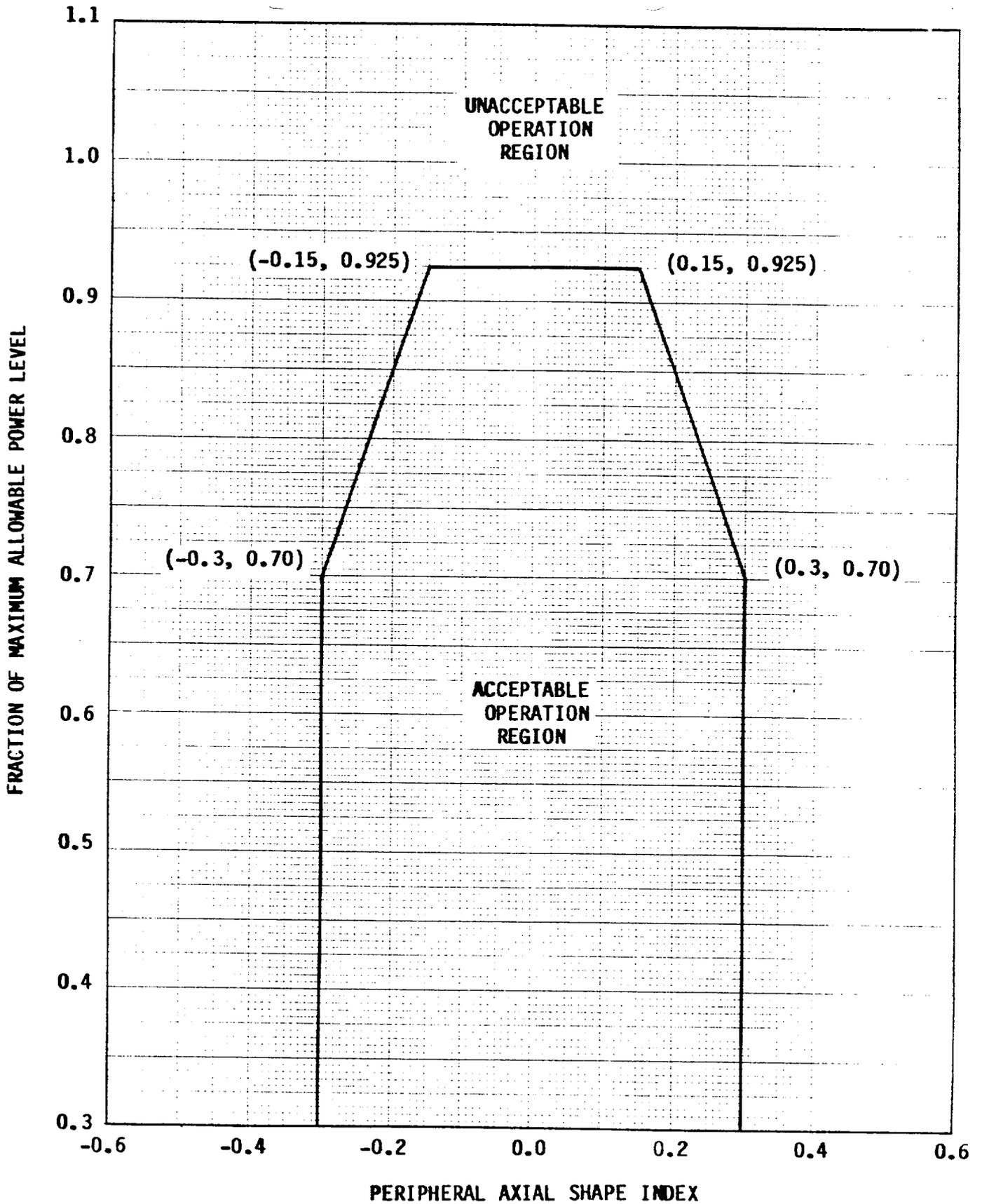


Figure 3.2-2
 AXIAL SHAPE INDEX vs fraction of maximum allowable power
 level per Specification 4.2.1.3

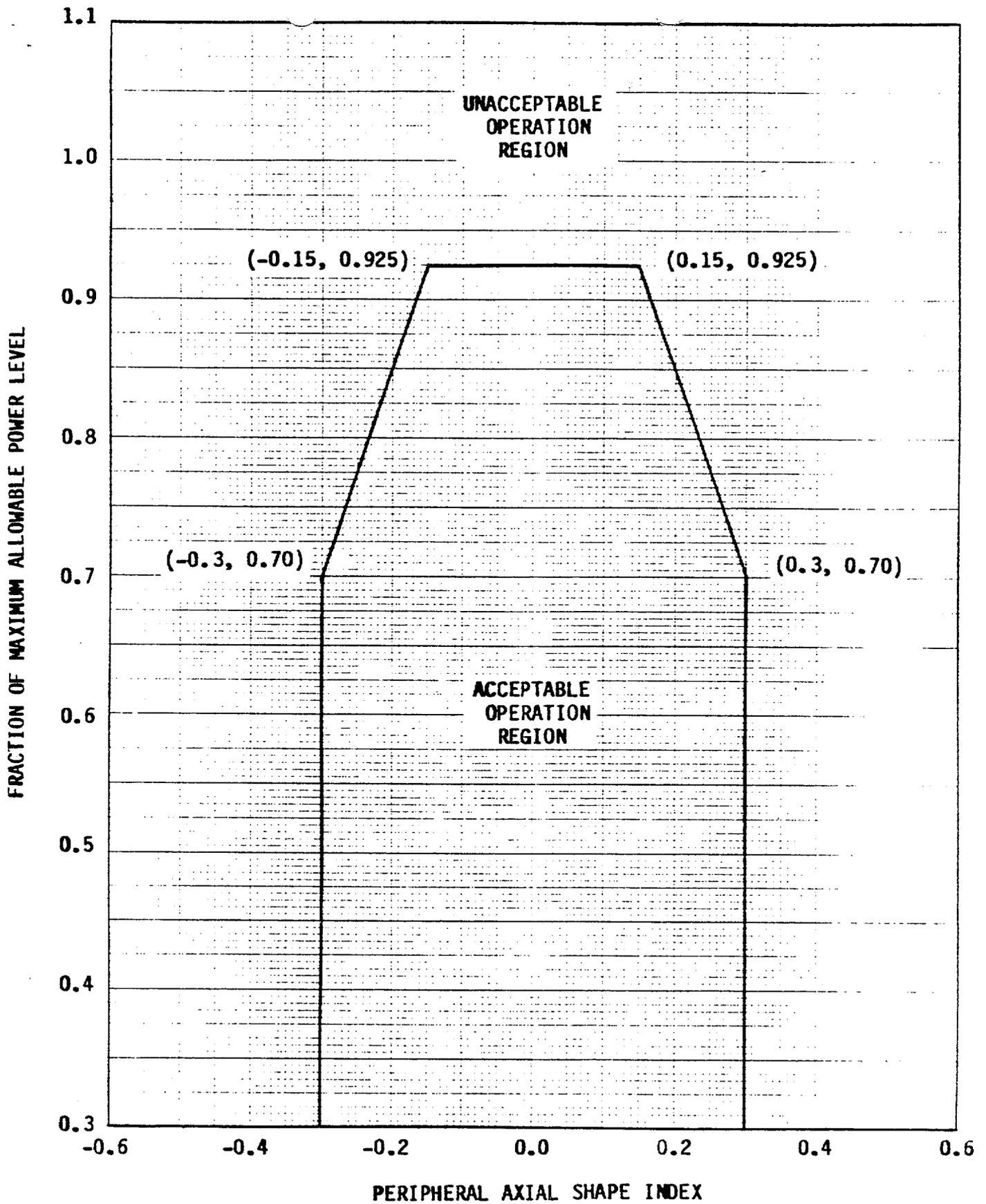


Figure 3.2-2
 AXIAL SHAPE INDEX vs fraction of maximum allowable power
 level per Specification 4.2.1.3

TABLE 3.2-1

PENALTY TO BE APPLIED TO F_r^T TO ACCOUNT
FOR ROD BOW EFFECTS ON DNBR

<u>BURNUP OF BUNDLE (Gwd/MTU)</u>	<u>DNBR PENALTY (%)</u>	<u>DNBR PENALTY WITH GRID SPACING PENALTY (%)</u>	<u>PENALTY MULTIPLIER TO BE APPLIED TO MEASURED F_r^T</u>
0-10.0	0.5	1.5	1.013
10.0-20.0	1.0	2.0	1.017
20.0-30.0	2.0	3.0	1.026
30.0-40.0	3.5	4.5	1.038
40.0-50.0	5.5	6.5	1.055

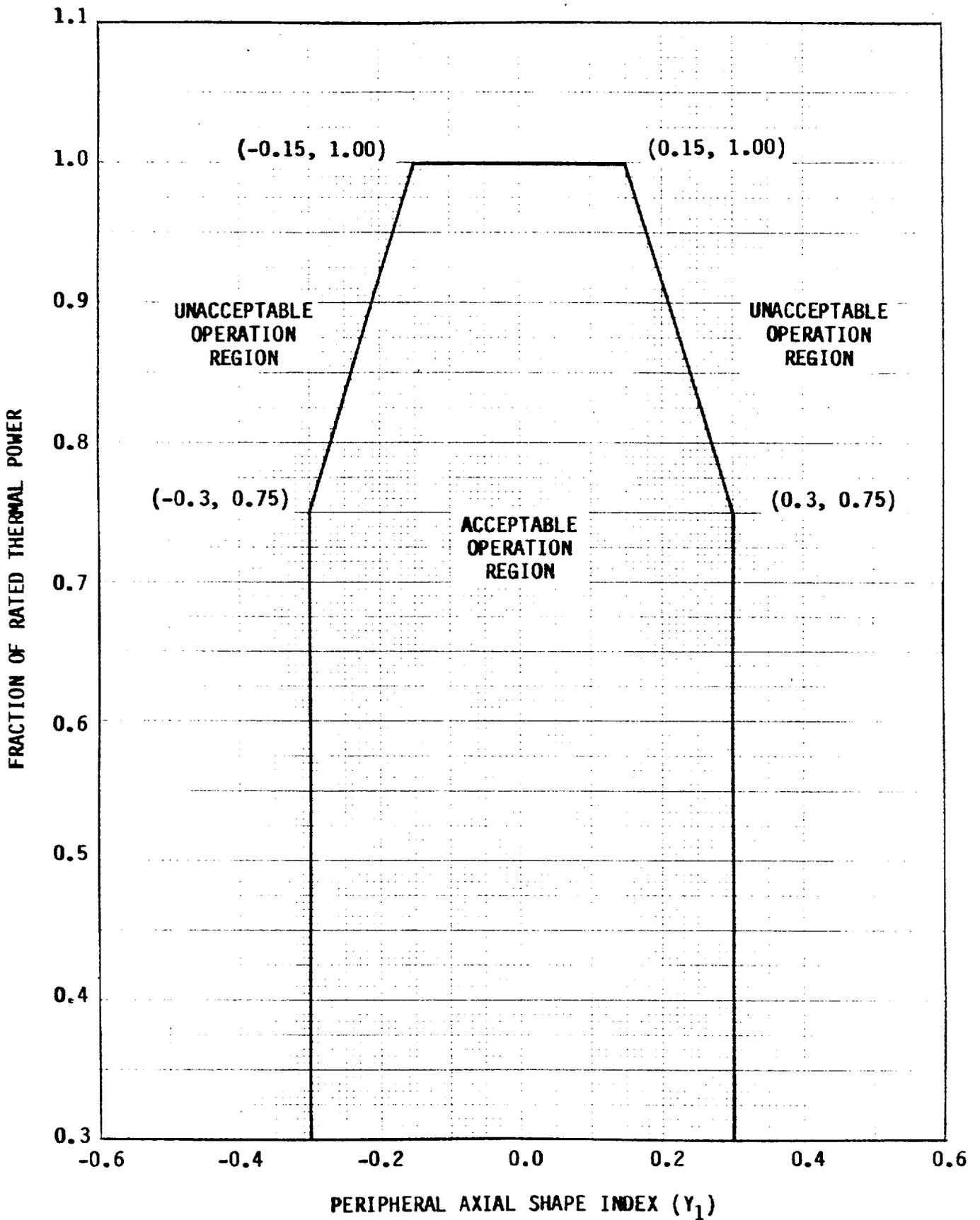


Figure 3.2-4
 AXIAL SHAPE INDEX operating limits with four reactor coolant pumps operating

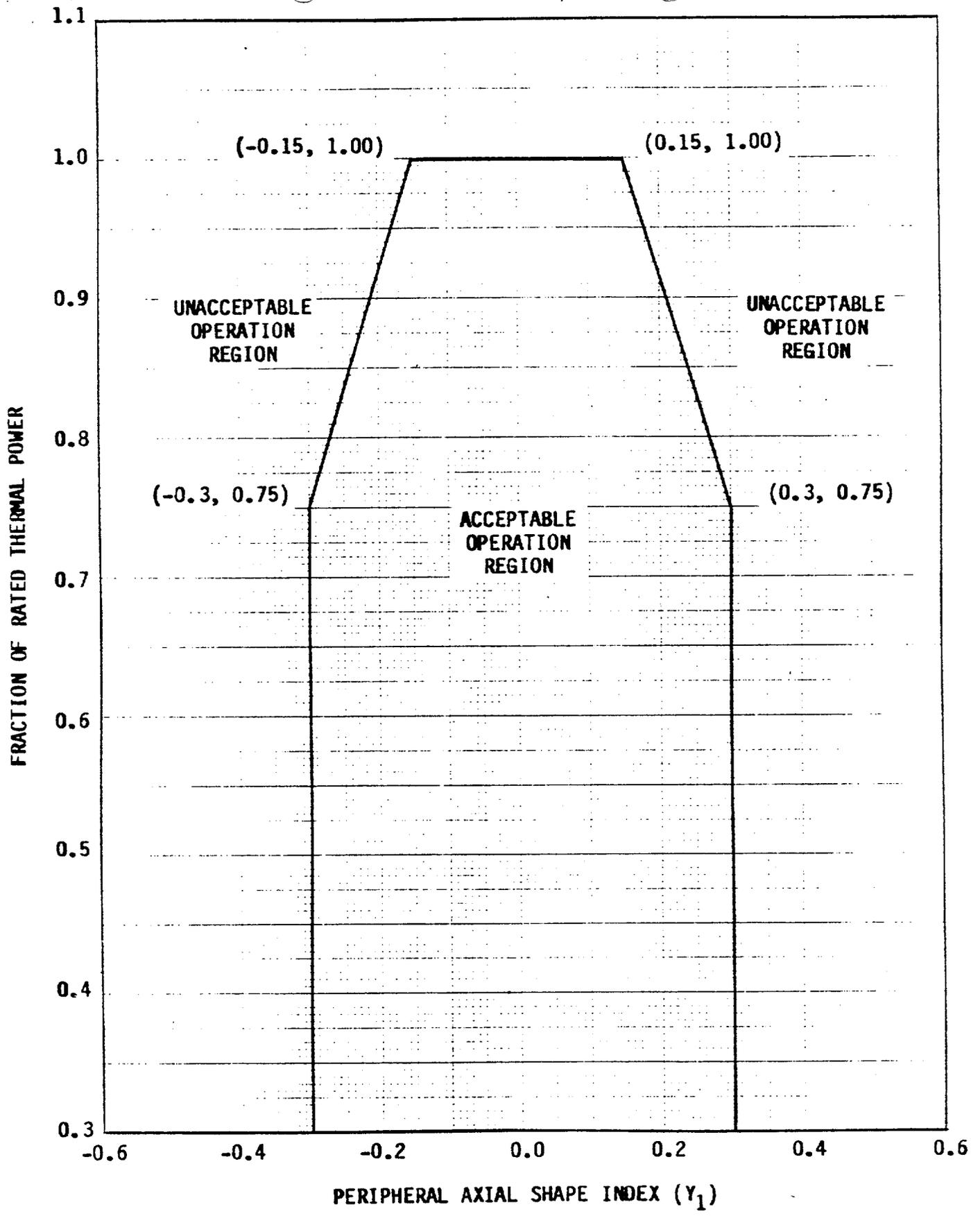


Figure 3.2-4
 AXIAL SHAPE INDEX operating limits with four reactor coolant pumps operating



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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION

SUPPORTING AMENDMENT NO. 6

TO FACILITY OPERATING LICENSE NO. NPF-16

FLORIDA POWER & LIGHT COMPANY

ORLANDO UTILITIES COMMISSION OF THE CITY OF ORLANDO, FLORIDA

AND

FLORIDA MUNICIPAL POWER AGENCY

ST. LUCIE PLANT, UNIT NO. 2

DOCKET NO. 50-389

Background

In a letter dated December 22, 1983 Florida Power and Light Company (FP&L) requested a license amendment to modify the St. Lucie Plant, Unit No. 2, Axial Shape Index (ASI) figures to bring them into conformance with Unit No. 1, and to reflect the fact that the Limiting Conditions for Operation (LCO) are not needed below 30% of rated thermal power.

Discussion

Figure 3.2-2 and Figure 3.2-4 of the technical specifications provide conservative calculated values of the Departure from Nucleate Boiling (DNB) LCO. As the power decreases the permitted ASI becomes larger. However, for convenience it was truncated at -0.3 and $+0.3$, but the permissible ASI continues to increase as power decreases. The Local Power Density (LPD) Limiting Safety Setting Set-points (LSSS) for St. Lucie Unit 2 likewise increases as power decreases and has values of -0.4 and $+0.4$ from 80% to 0% power. FP&L has provided data that shows that the LSSS becomes more restrictive than the DNB LCO at approximately 77% power. FP&L has also provided data that show that the LSSS continues to be more restrictive as power continues to decrease.

Based on the staff review of the data submitted, the staff agrees that the LSSS value is more restrictive than the calculated DNB LCO below 30% power. Therefore, the staff approves of the proposed technical specification change allowing the LSSS to replace the DNB LCO below 30% power.

This amendment involves a change in the installation or use of a facility component located within the restricted area as defined in 10 CFR Part 20. The staff has determined that the amendment involves no significant increase in the amounts, and no significant change in the types, of any effluents that

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may be released offsite, and that there is no significant increase in individual or cumulative occupational radiation exposure. The Commission has previously issued a proposed finding that this amendment involves no significant hazards consideration and there has been no public comment on such finding. Accordingly, this amendment meets the eligibility criteria for categorical exclusion set forth in 10 CFR 51.22(c)(9). Pursuant to 10 CFR 51.22(b), no environmental impact statement or environmental assessment need be prepared in connection with the issuance of this amendment.

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 the amendment will not be inimical to the common defense and security or to the health and safety of the public.

Date: August 10, 1984

Principal Contributor:
M. Chatterton