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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.      05000389  
 AUTH. NAME      AUTHOR AFFILIATION  
 WILLIAMS, J.W.      Florida Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 EISENHUT, D.G.      Office of Nuclear Reactor Regulation, Director

SUBJECT: Application for amend to License NPF-16, to bring Unit 2  
 Tech Specs in compliance w/Unit 1. Limiting conditions of  
 operation not needed below 30% of rated thermal power.

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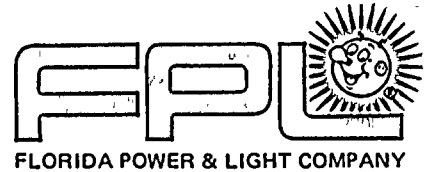
THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY  
5301 SOUTH CAMPUS DRIVE  
CHICAGO, ILLINOIS 60637

5. The purpose of this report is to provide a summary of the results of the experiments conducted during the course of the project. The results are presented in the following sections.

-----: 1. INTRODUCTION: This report is a summary of the results of the experiments conducted during the course of the project.

1.1

Run No.	Temp. (°C)	Time (min)	Yield (%)	Notes
1	100	10	85	Good yield, clear product
2	100	20	80	Yield slightly lower than run 1
3	100	30	75	Yield continues to decrease
4	100	40	70	Yield is significantly lower
5	100	50	65	Yield is at its lowest point
6	100	60	60	Yield is very low



December 22, 1983  
L-83-601

Office of Nuclear Reactor Regulation  
Attention: Mr. Darrell G. Eisenhut, Director  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit 2  
Docket No. 50-389  
Proposed License Amendment  
Axial Shape Index

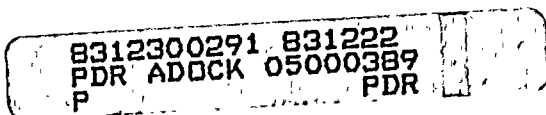
In accordance with 10 CFR 50.90, Florida Power & Light Company submits herewith three signed originals and forty copies of a request to amend Appendix A of Facility Operating License NPF-16.

This amendment is submitted to bring the St. Lucie Unit 2 Technical Specifications in conformance with those of Unit 1. Based upon our review of existing analyses it was determined that the Limiting Conditions of Operation (LCO) are not needed below 30% of rated thermal power. This is because the existing analyses contain sufficient conservatism to bracket the increased axial peaking resulting from expansion of the ASI range.

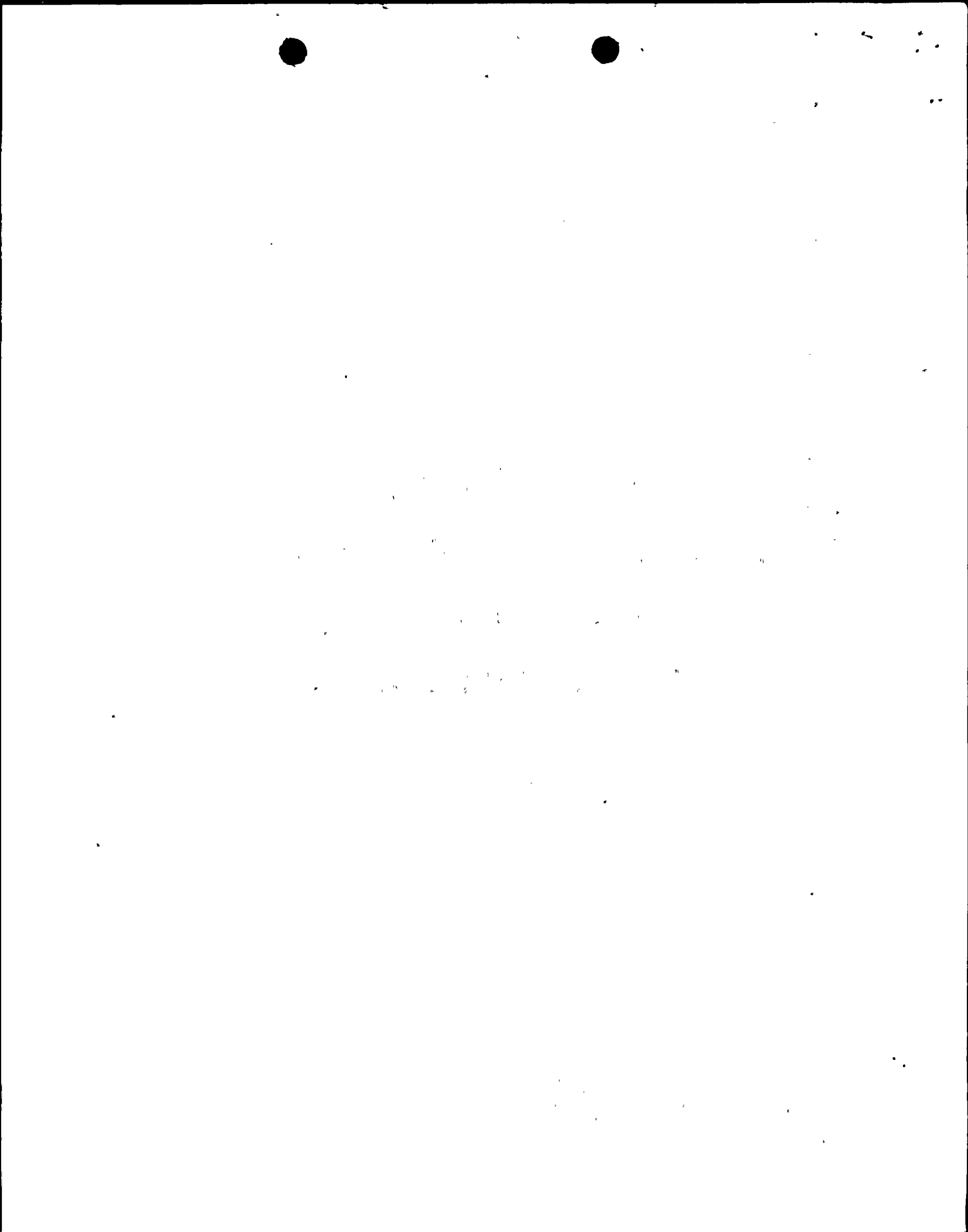
The proposed amendment is described below and shown on the accompanying Technical Specification pages.

Page 3/4 2-12 (Figure 3.2-4) and 3/4 2-4 (Figure 3.2-2)

These figures are modified to allow an axial offset permitted by the Limiting Safety System Setpoints and LCOs below 30% power.



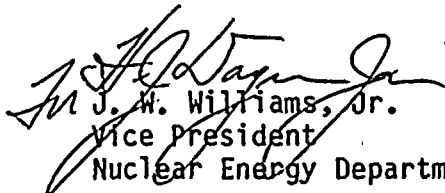
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*11*



Office of Nuclear Reactor Regulation  
Attention: Mr. Darrell G. Eisenhut  
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The proposed amendment has been reviewed by the St. Lucie Facility Review Group and the Florida Power & Light Company Nuclear Review Board.

Very truly yours,

  
J. W. Williams, Jr.  
Vice President  
Nuclear Energy Department

JWW/JEM/js

Attachment

cc: Mr. James P. O'Reilly, Region II  
Harold F. Reis, Esquire  
PNS-LI-83-718

