

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  
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DESCRIPTION

PLANT NAME : St. Lucie Unit No. 1  
RUL 12/27/77 (2-P)

ENCLOSURE

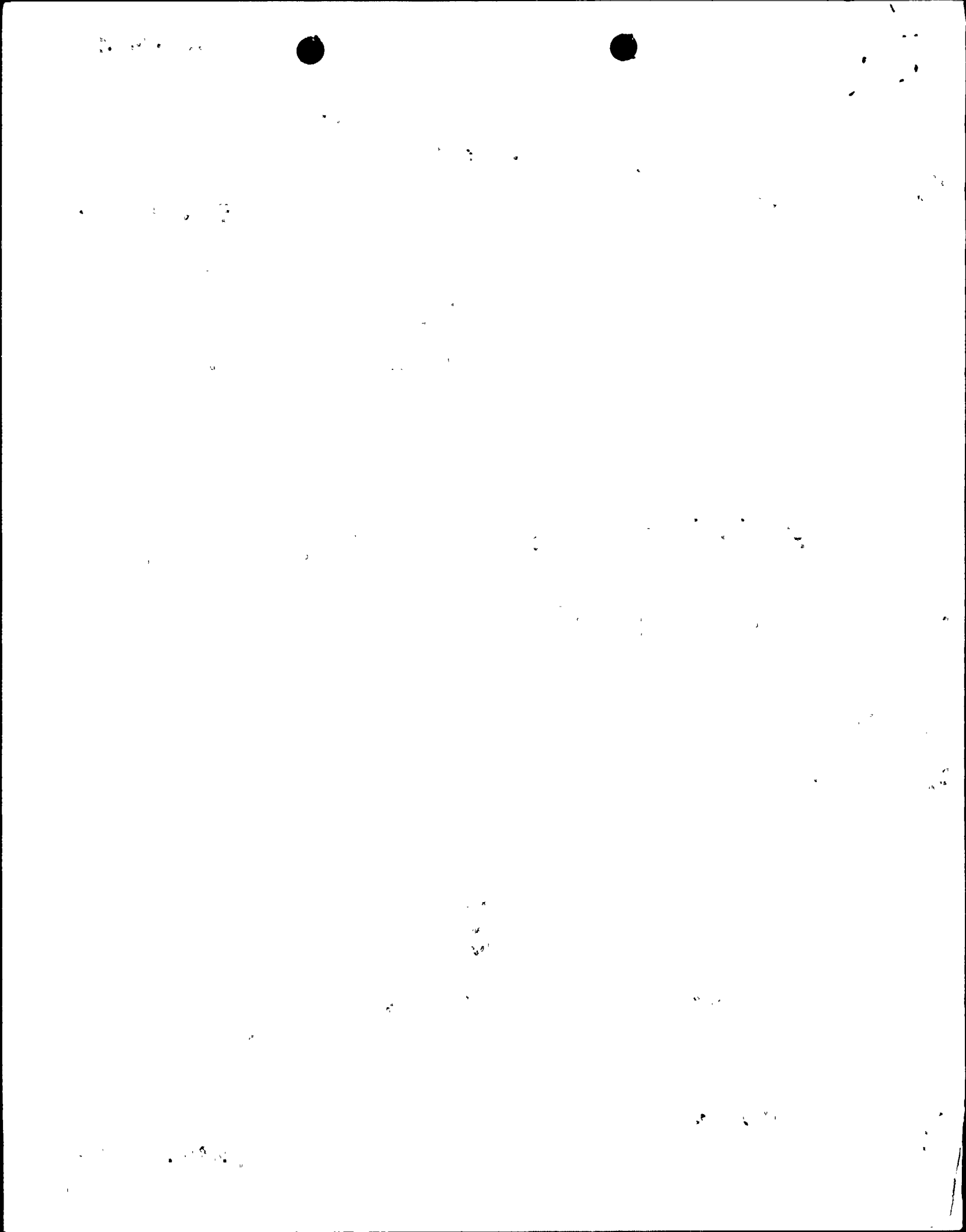
License No. DPR-67 Appl for Amend: tech specs proposed change concerning modification of the incore monitoring alarm setpoints & the excore monitoring power scaling factor to be more conservative than the current tech specs by 1/2%...notorized 12/19/77.....

(1-P)+(1-P) **40 ENCL.**

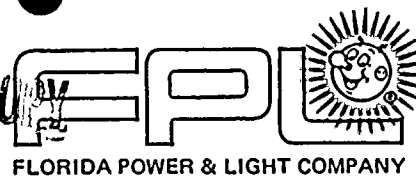
SAFETY		FOR ACTION/INFORMATION	ENVIRONMENTAL
ASSIGNED AD:			ASSIGNED AD: V. MOORE (LTR)
<input checked="" type="checkbox"/> BRANCH CHIEF:	(7) <b>DAVIS</b>		BRANCH CHIEF:
PROJECT MANAGER:			PROJECT MANAGER:
LIC. ASST:			LIC. ASST:
			B. HARLESS

INTERNAL DISTRIBUTION			
<input checked="" type="checkbox"/> REG FILES	SYSTEMS SAFETY	PLANT SYSTEMS	SITE SAFETY &
<input checked="" type="checkbox"/> NRC PDR	R. MATTSON	TEDESCO	ENVIRON ANALYSIS
<input checked="" type="checkbox"/> I & E (2)	SCHROEDER	BENAROYA	DENTON & MULLER
<input checked="" type="checkbox"/> OFLD		LATNAS	CRUTCHFIELD
GOSSICK & STAFF	ENGINEERING	IPPOLITO	
<input checked="" type="checkbox"/> HANAUER	KNIGHT	F. ROSA	ENVIRON TECH
MIPC	BOSNAK		ERNST
CASE	SIHWELL	OPERATING REACTORS	BALLARD
ROYD	PAWLICKI	STELLO	YOUNGBLOOD
		<input checked="" type="checkbox"/> EISENHUT	
PROJECT MANAGEMENT	REACTOR SAFETY	<input checked="" type="checkbox"/> SHAO	SITE TECH
SKOVHOLT	ROSS	<input checked="" type="checkbox"/> BAER	GAMMILL (2)
P. COLLINS	NOVAK	<input checked="" type="checkbox"/> BUTLER	
HOUSTON	ROSZTOCZY	<input checked="" type="checkbox"/> GRIMES	SITE ANALYSIS
MELTZ <input checked="" type="checkbox"/>	CHECK	<input checked="" type="checkbox"/> <b>J. Mc Gough</b>	VOLLMER
HELTEMES			BUNCH
SK	AT & I		<input checked="" type="checkbox"/> J. COLLINS
	SALTZMAN		KREGER
	RUTBERG		

EXTERNAL DISTRIBUTION		CONTROL NUMBER
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REG V (J. HANCHETT)		
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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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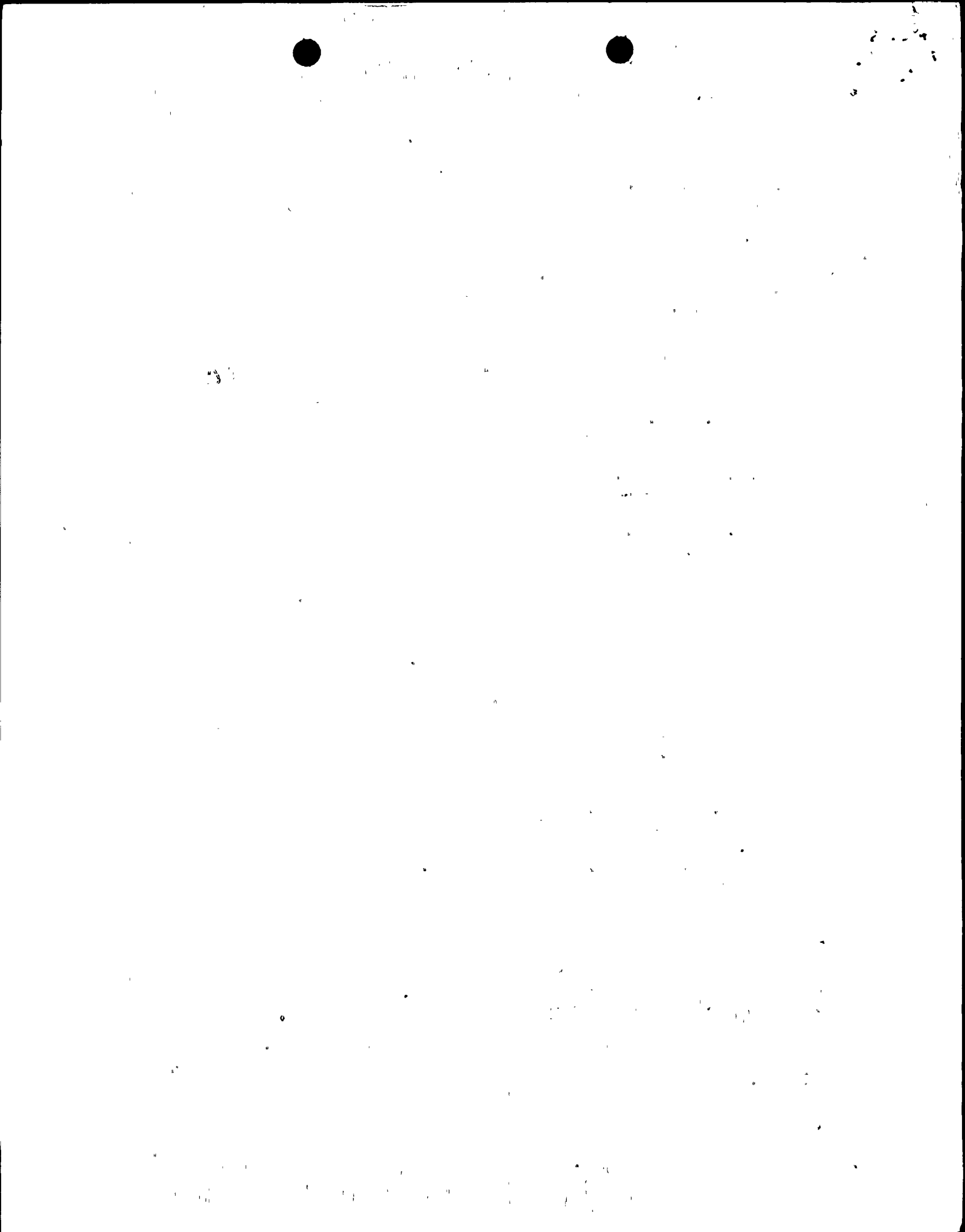
Specification 4.2.1.3.c is revised to incorporate additional conservatism of 1/2%. The relationship

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

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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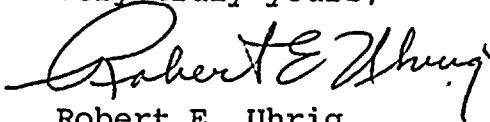


Mr. Victor Stello, Director  
Division of Operating Reactors  
Page Two

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



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## 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:

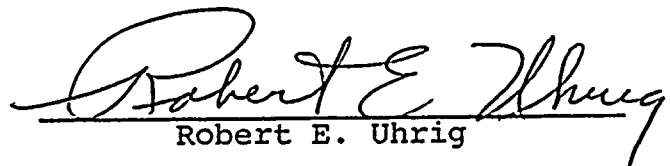
- a. Are adjusted to satisfy the requirements of the core power distribution map which shall be updated at least once per 31 days.
- b. Have their alarm setpoint adjusted to less than or equal to the limits shown on Figure 3.2-1 when the following factors are appropriately included in the setting of 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:

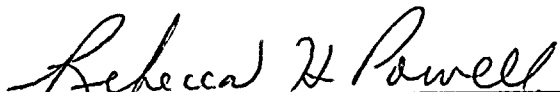
That he is a Vice President of Florida Power & Light Company,  
the Licensee herein;

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



