NRC FORM 195 (2-76)

U.S. NUCLEAR REGULATORY COMMISSION

DOCKET NUMBER 50-250/251

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TO: Mr G. Lear	FROM: Florida Power & Light Co Miami, Fla R E Uhrig	DATE OF DOCUMENT 1-25-77 DATE RECEIVED 1-28-77
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DESCRIPTION

Ltr notarized 1-25-77.....trans the following:

1p

PLANT NAME: Turkey Pt 3 & 4

ENCLOSURE

Amdt to OL/Change to Tech Specs: Consisting of revisions with regard to load vs flux code limitations.....(50 cys encl rec'd)

4p

DO NOT REMOVE

ACKNOWLEDGED

FOR ACTION/INFORMATION ENVIRO 1-28-77 ehf

SAFETY		ENVIRO	
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BRANCH CHIEF:	Lear (5)	BRANCH CHIEF:	
PROJECT MANAGER:	Elliot	PROJECT MANAGER:	
LIC. ASST. :	Parrish	LIC. ASST. :	

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FLORIDA POWER & LIGHT COMPANY

Regulatory Docket File

January 25, 1977
L-77-32

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: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
Proposed Amendment to Facility
Operating Licenses DPR-31 and DPR-41

In accordance with 10 CFR 50.30, Florida Power and Light Company submits herewith three (3) signed originals and forty (40) copies of a request to amend Appendix A of Facility Operating Licenses DPR-31 and DPR-41.

The proposed change is described below and shown on the accompanying Technical Specification page bearing the date of this letter in the lower right hand corner.

Table 4.1-1 (Sheet 1)

Item 1, Remark 1 is revised to read

"Load vs. flux curve, or ΔT vs. reactor power curve".

The proposed change has been reviewed by the Turkey Point Plant Nuclear Safety Committee and the Florida Power & Light Company Nuclear Review Board. They have concluded that it does not involve an unreviewed safety question. A safety evaluation is attached.

Very truly yours,

Robert E. Uhrig

ROBERT E. UHRIG
Vice President

1 988

REU/MAS/cmp

Attachment

cc: Norman C. Moseley, Region II
Robert Lowenstein, Esquire

TABLE 4.1-1

MINIMUM FREQUENCIES FOR CHECKS, CALIBRATIONS AND TEST OF INSTRUMENT CHANNELS

	Channel Description	Check	Calibrate	Test	Remarks
1.	Nuclear Power Range (Check, Calibrate and Test only applicable above 10% of rated power.)	S (1) M*(4)	D (2) Q*(4)	M (3)	1) Load v.s. flux curve, or ΔT vs. reactor power curve 2) Thermal power calculation 3) Signal to ΔT; bistable action (permissive, rod stop, trips) 4) Upper & lower detectors for symmetric offset (+5 to -5%
2.	Nuclear Intermediate Range	S (1)†	N.A.	P (2)	1) Once/shift up to 50% R.P. 2) Log level; bistable action (permissive, rod stop, trip)
3.	Nuclear Source Range	S (1)	N.A.	P (2)	1) Once/shift when in service 2) Bistable action (alarm, trip
4.	Reactor Coolant Temperature	S†	R	B/W (1)† (2)†	1) Overtemperature-ΔT 2) Overpower-ΔT
5.	Reactor Coolant Flow	S†	R	M†	
6.	Pressurizer Water Level	S†	R	M†	
7.	Pressurizer Pressure	S†	R	M†	
8.	4 kv Voltage & Frequency	N.A.	R**	R	Reactor protection circuits only
9.	Analog Rod Position	S†	R	M†	With step counters

1/25/77

SAFETY EVALUATION

Introduction:

This safety evaluation supports a proposed change to Table 4.1-1 of the Turkey Point Technical Specifications. Item 1, Remark 1 is revised to add the option of using the "ΔT vs. reactor power curve" during shift checks of the Nuclear Power Range instrument channels.

Discussion:

The present Technical Specification requires use of the "load vs. flux curve" during shift checks of the Power Range instrumentation. The proposed change adds the option of using the "ΔT vs. reactor power curve".

The Power Range nuclear instrumentation is presently checked at least once per shift by comparing indicated power level with the power level derived from the "load vs. flux curve". By knowing the generator load and back pressure, the "load vs. flux curve" can be used to determine reactor power. However, because of secondary inefficiency caused by such things as opening heater bypasses, changes in intake cooling water temperature, or changes in back pressure, large corrections may be needed in order to derive the correct power level from the "load vs. flux curve".

Therefore, it is proposed that the Technical Specifications be amended to permit the use of the "ΔT vs. reactor power curve" when checking the accuracy of the Power Range instrumentation.

Secondary inefficiency will not affect the power level derived from this curve, and the curve will be easy to use because the relationship between ΔT and reactor power is linear.

The purpose of the channel check is to detect gross failures such as blown fuses, defective indicators, or faulted amplifiers which result in "upscale" or "downscale" indication. The capability of detecting such failures will not be reduced by use of the "ΔT vs. reactor power curve". In addition, the Power Range shift checks are backed-up by a daily calibration which provides a more accurate determination of instrument operability.

Conclusions:

Based on these considerations, (1) the proposed change does not increase the probability or consequences of accidents or malfunctions of equipment important to safety and does not reduce the margin of safety as defined in the basis for any technical specification, therefore, the change does not involve a significant hazards consideration, (2) there is reasonable assurance that the health and safety of the public will not be endangered by operation in the proposed manner, and (3) such activities will be conducted in compliance with the Commission's regulations and the issuance of this amendment will not be inimical to the common defense and security or to the health and safety of the public.

1/25/77

STATE OF FLORIDA)
) ss.
COUNTY OF DADE)

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 statements 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

Robert E. Uhrig

Subscribed and sworn to before me this

25th day of January, 1977

Helen L. Carson

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

NOTARY PUBLIC STATE OF FLORIDA AT LARGE
MY COMMISSION EXPIRES NOV. 30 1979
BONDED THRU GENERAL INS. UNDERWRITERS

My commission expires: