

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:7908140435 DOC.DATE: 7/9/08/09 NOTARIZED: NO DOCKET # 05000250
 FACIL:50-250 Turkey Point Plant, Unit 3, Florida Power and Light Co. 05000251
 50-251 Turkey Point Plant, Unit 4, Florida Power and Light Co.
 AUTH.NAME AUTHOR AFFILIATION
 UHRIG,R.E. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
 EISENHUT,D.G. Division of Operating Reactors

SUBJECT: Submits proposed amend to Licenses DPR-31 & DPR-41 to increase min low-low steam generator water level reactor trip setpoint to 15% of narrow range instrument scale.Safety evaluation encl.

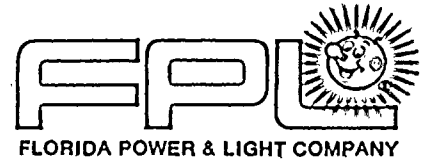
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NOTES: W/CHECK \$4,400-----

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AUG 15 1979

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August 9, 1979
L-79-217

Director of Nuclear Reactor Regulation
Attention: Darrell G. Eisenhut, Acting Dir.
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

REGULATORY DOCKET FILE COPY

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 & 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.

This proposal addresses the potential for erroneous steam generator water level indication due to postulated events that could lead to heating of the water level instrumentation reference leg.

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

Page 2.3-3

The minimum setpoint for the "low-low steam generator water level" reactor trip is increased from 5% to 15% of the narrow range instrument scale.

The proposed amendment 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.

We have determined that since this request involves a single safety issue and a duplicate amendment, the request should be classified as a Class I and a Class III amendment pursuant to 10CFR 170. Accordingly, a check for \$4,400 is attached.

Very truly yours,

E. E. Uhrig

for Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/MAS/dlh

Attachment

cc: J. P. O'Reilly, Region II
Robert Lowenstein, Esquire

*W/Check
\$4,400*

*A001
S9/3*

7908140435

PEOPLE...SERVING PEOPLE

Over-
power $\Delta T \leq \Delta T_0$

$$1.11 * -K_1 \frac{dT}{dt} - K_2 (T - T') - f(\Delta q)$$

ΔT_0 = Indicated ΔT at rated power, F

T = Average temperature, F

T' = Indicated average temperature at nominal conditions and rated power, F

K₁ = 0 for decreasing average temperature,
0.2 sec./F for increasing average temperature

K₂ = 0.00068† for T equal to or more than T';
0 for T less than T'

$\frac{dT}{dt}$ = Rate of change of temperature, F/sec

f(Δq) = As defined above

Pressurizer

Low Pressurizer pressure - equal to or greater than 1835 psig.

High Pressurizer pressure - equal to or less than 2385 psig.

High Pressurizer water level - equal to or less than 92% of full scale.

Reactor Coolant Flow

Low reactor coolant flow - equal to or greater than 90% of normal indicated flow

Low reactor coolant pump motor frequency - equal to or greater than 56.1 Hz

Under voltage on reactor coolant pump motor bus - equal to or greater than 60% of normal voltage

Steam Generators

Low-low steam generator water level - equal to or greater than 15% of narrow range instrument scale

*This factor is 1.11 for steam generator tube plugging ≤ 15 percent

This factor is 1.10 for steam generator tube plugging >15 percent and ≤ 19 %

This factor is 1.08 for steam generator tube plugging >19 % and ≤ 25 %.

†This factor is 0.00106 for steam generator tube plugging >19 % and ≤ 25 %.

SAFETY EVALUATION

Re: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
Proposed Tech Spec Change
SGWL Trip Setpoint

I. Introduction

This evaluation supports a proposed change in the "low-low steam generator water level" reactor trip setpoint. The minimum setpoint will be conservatively increased from 5% to 15% of the narrow range instrument scale.

II. Evaluation

High energy line breaks inside containment can result in heatup of the steam generator level measurement reference leg. Increased reference leg water column temperature will result in a decrease of the water column density with a consequent apparent increase in the indicated steam generator water level (i.e., apparent level exceeding actual level). This potential level bias could result in delayed protection signals (reactor trip and auxiliary feedwater initiation) which are based on low-low steam generator water level. In case of a feedline rupture, this adverse environment could be present and could delay or prevent the primary signal arising from declining steam generator water level (low-low steam generator level). Backup signals which may be available include the following; over-temperature delta-T, high pressurizer pressure, containment pressure, and safety injection. For other high energy line breaks that could introduce a similar positive bias to the steam generator water level measurement, steam generator level does not provide the primary trip function and the potential bias would not interfere with needed protective system actuation.

Analysis of the problem by our NSSS vendor has shown that a 10% error (of narrow range span) could result from the temperature effect described above. Therefore, by increasing the minimum allowable low-low steam generator water level trip setting from 5% to 15% of narrow range instrument scale, we can ensure that the trip setpoint maintains conservatism and compensates for the potential 10% error.

III. Conclusion

We have concluded, based on the considerations discussed above, that: (1) the amendment does not involve a significant increase in the probability or consequences of accidents previously considered and does not involve a significant decrease in a safety margin; (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.

STATE OF FLORIDA)
)
COUNTY OF DADE) ss.

E. A. Adomat, being first duly sworn, deposes and says:

That he is Executive 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



E. A. Adomat

Subscribed and sworn to before me this

9th day of August, 1979



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

NOTARY PUBLIC STATE OF FLORIDA at LARGE
MY COMMISSION EXPIRES AUGUST 24, 1981
BONDED THRU MAYNARD BONDING AGENCY

My commission expires: _____