

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7905140217 DOC. DATE: 79/05/04 NOTARIZED: NO DOCKET # 05000250
 FACIL: 50-250 TURKEY POINT PLANT, UNIT 3, FLORIDA POWER AND LIGHT C
 50-251 TURKEY POINT PLANT, UNIT 4, FLORIDA POWER AND LIGHT C 05000251
 AUTH. NAME AUTHOR AFFILIATION
 UHRIG, R.E. FLORIDA POWER & LIGHT CO.
 RECIP. NAME RECIPIENT AFFILIATION
 STELLO, V. DIVISION OF OPERATING REACTORS

SUBJECT: FORWARDS REPLACEMENT FIRST PAGE FOR SAFETY EVALUATION
 FORWARDED 790502 W/TECH SPEC CHANGE PROPOSAL.

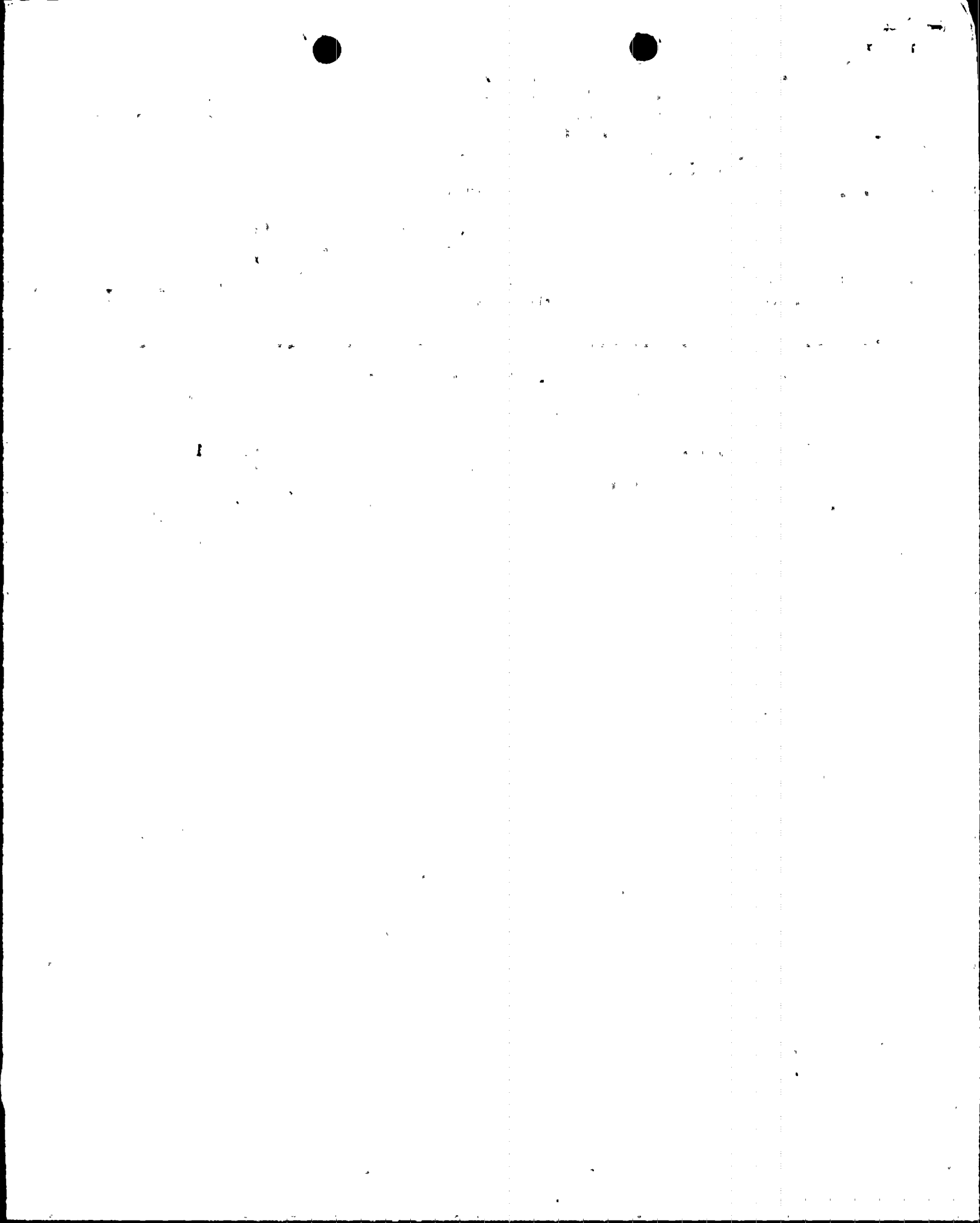
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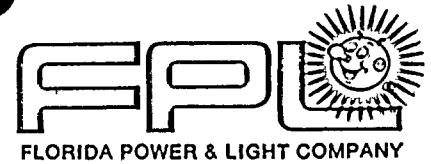
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	17 ENGR BR	1 1	18 REAC SFTY BR	1 1
	19 PLANT SYS BR	1 1	20 EEB	1 1
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EXTERNAL:	03 LPDR	1 1	04 NSIC	1 1
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May 4, 1979
L-79-112

Office 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

On May 2, 1979 Florida Power & Light Company submitted a proposed change to Turkey Point Units 3 and 4 Technical Specifications. The proposed change would allow for a "2 out of 3" logic to initiate safety injection from pressurizer low pressure.

Attached is a revised first page of the safety evaluation. Please replace the first page in the safety evaluation forwarded with our May 2, 1979 amendment request with the attached page.

Very truly yours,

J. A. De Mastri
for

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU:GDW:cf

Attachment

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

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3/3

7905140 217

Re: Turkey Point Units 3 & 4
Docket Nos. 50-250 & 50-251
Proposed Tech Spec. Amendment
Safety Injection Trip Logic

I. Introduction

This evaluation supports a proposal to delete reference to Pressurizer Low Level from Table 3.5-2 (Engineered Safety Features Actuation) and Table 3.5-4 (Engineered Safety Features Set Points).

II. Discussion

The NSSS vendor has performed a safety review of safety injection actuation logic modifications for application to the Turkey Point Nuclear Units. The existing logic will be modified by deleting the low pressurizer pressure coincident with low pressurizer level actuation logic and converting the protection system to a two-out-of-three low pressurizer pressure actuation only.

The basis for this modification utilizes the three existing pressurizer pressure channels for safety injection actuation and two channels for control system functions. Control and protection requirements set forth in IEEE-279 are satisfied by the fact that pressure control transmitters are independent from protection transmitters.

All current ECCS analyses are valid and appropriate for plants with safety injection initiation as a function of pressurizer pressure signals only. Previously, safety injection was initiated on coincident pressurizer pressure and level signals. The effect of changing to a pressure only signal will result in either an earlier initiation of safety injection, or no change in the time of safety injection initiation for all break locations. For small breaks in the pressurizer, the pressure only signal will assure SI actuation. Therefore, current small break analysis assumptions concerning safety injection initiation time are appropriate. Additionally, the effect of safety injection initiation time on peak clad temperature is negligible when initiation times being considered correspond to RCS pressures above 1400 psia. The switch to a pressure only safety injection signal results in a negligible impact on large break analyses.

Based upon the conclusions reached during reviews by the NSSS vendor and by Florida Power & Light Company, the change proposed to the Safety Injection System control circuit logic does not introduce additional safety concerns, and does not involve an unreviewed safety question.

