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FACIL: 50-250 Turkey Point Plant, Unit 3, Florida Power and Light C 05000250
50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
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RECIP. NAME RECIPIENT AFFILIATION
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SUBJECT: Provides util rept for Units 3 & 4 since last rept dtd
961106 re nature of changes to, or errors discovered in ECCS
evaluation models, or in application of such models.

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L-97-133
10 CFR §50.46

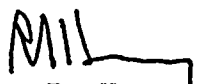
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Re: Turkey Point Units 3 and 4
Docket Nos. 50-250 and 50-251
10 CFR 50.46, "Acceptance Criteria for
Emergency Core Cooling Systems in Light Water
Nuclear Power Reactors" - Annual Report

10 CFR 50.46(a) (3) (ii) requires that licensees report to the Commission at least annually the nature of changes to, or errors discovered in, the Emergency Core Cooling System (ECCS) evaluation models, or in the application of such models that affect the peak clad temperature calculation and their effect on the limiting ECCS analysis. This letter provides Florida Power and Light Company's report for Turkey Point Units 3 and 4 since the last report dated November 6, 1996.

Should there be any questions, please contact us.

Very truly yours,


R. J. Hovey
Vice President
Turkey Point Plant

OIH

attachment

cc: L. A. Reyes, Regional Administrator, Region II, USNRC
T. P. Johnson, Senior Resident Inspector, USNRC,
Turkey Point Plant

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Small Break LOCA (SBLOCA)

By letter L-96-279, dated November 6, 1996, Florida Power and Light Company (FPL) reported a Peak Clad Temperature (PCT) of 1666°F for the worst case SBLOCA transient analysis. There are no changes to, or errors discovered in the ECCS SBLOCA evaluation models, or in the application of such models that affect the PCT since the last report documented by FPL letter L-96-279.

Large Break LOCA (LBLOCA)

By letter L-96-279, dated November 6, 1996, FPL reported a PCT of 2144°F for the worst case LBLOCA transient analysis. Since the last report, an error was discovered in the coding related to the translation of fluid conditions between the SATAN blowdown code and the LOCTA code used for subchannel analysis of the fuel rods. Due to this error, a 15°F penalty on the PCT has been reported. Based on the PCT reported in L-96-279 of 2144°F, the net change in PCT for the worst case LBLOCA is 15°F, for a total PCT of 2159°F.

Summary

The peak clad temperature of 1666°F for the worst case SBLOCA and the revised peak clad temperature of 2159°F for the worst case LBLOCA, correcting for the effects discussed above and summarized in Tables 1 and 2, are below the 10 CFR 50.46 ECCS acceptance criteria limit of 2200°F. Turkey Point Units 3 and 4 remain in compliance with the Emergency Core Cooling System performance criteria specified in 10 CFR 50.46 (b).

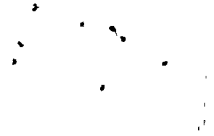


TABLE 1

TURKEY POINT UNITS 3 AND 4
PREDICTED PEAK CLAD TEMPERATURES
CURRENT SBLOCA EVALUATIONS
THAT HAVE ASSESSED PCT PENALTIES

Analysis of Record	1688°F
Total SBLOCA PCT specified in FPL Letter L-96-279	1666°F
<u>Evaluations since issuance of FPL letter L-96-279</u>	
None	
Total Estimated SBLOCA PCT	1666°F

TABLE 2

TURKEY POINT UNITS 3 AND 4
PREDICTED PEAK CLAD TEMPERATURES
CURRENT LBLOCA EVALUATIONS
THAT HAVE ASSESSED PCT PENALTIES

Analysis of Record	2117°F
Total LBLOCA PCT specified in FPL letter L-96-279	2144°F
<u>Evaluations since issuance of FPL letter L-96-279</u>	
Effect of Fluid Conditions from SATAN to LOCTA	15°F
Total Estimated LBLOCA PCT	2159°F