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50-251 Turkey Point Plant, Unit 4, Florida Power and Light C 05000251
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SUBJECT: Forwards annual 10CFR50.46 rept re changes to,or errors discovered in ECCS evaluation models,or in application of such models that effect peak clad temp calculation.

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FPL

JAN 06 1999

L-99-002
10 CFR §50.46

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

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 submitted by FPL letter L-98-010, dated January 12, 1998.

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
Senior Resident Inspector, USNRC, Turkey Point Plant

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P PDR

Small Break Loss of Coolant Accident (SBLOCA)

By letter L-98-010, dated Janaury 12, 1998, 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-98-010.

Large Break LOCA (LBLOCA)

By letter L-98-010, dated January 12, 1998, FPL reported a PCT of 2067°F for the worst case LBLOCA transient analysis. Since the last report, ZIRLO™ fuel rod cladding was implemented in order to gain margin to the fuel corrosion design limits. As a result of the ZIRLO™ fuel rod cladding, a 22°F penalty on the PCT has been reported. Based on the PCT reported in L-98-010 of 2067°F, the net change in PCT for the worst case LBLOCA is 22°F, for a total PCT of 2089°F.

Summary

The peak clad temperature of 1666°F for the worst case SBLOCA and the revised peak clad temperature of 2089°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-98-010	1666°F

Evaluations since issuance of FPL letter L-98-010

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	2040°F
Total LBLOCA PCT specified in FPL letter L-98-010	**2067°F**
Evaluations since issuance of FPL letter L-98-010	
ZIRLO Cladding	22°F
Total Estimated LBLOCA PCT	**2089°F**