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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
Document Control Branch (Document Control Desk)

SUBJECT: Submits rept re changes to or errors discovered in ECCS evaluation models that affect PCT calculation & effect on limiting ECCS analysis,per 10CFR50.46.

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FPL

JAN 12 1998

L-98-010
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" - Update

10 CFR 50.46(a)(3)(ii) requires that licensees report to the Commission within 30 days 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 significantly affect the peak clad temperature calculation and their effect on the limiting ECCS analysis. On December 20, 1997, the NRC issued Amendment No. 195 to Facility Operating License No. DPR-31 for Turkey Point Unit 3, and Amendment No. 189 to Facility Operating License No. DPR-41 for Turkey Point Unit 4, approving application of the Westinghouse generic Best Estimate (BE) Large Break Loss of Coolant Accident (LOCA) analysis evaluation model for Turkey Point Units 3 and 4. This letter provides Florida Power and Light Company's update as a result of implementation of Amendments 195/189 for Turkey Point Units 3 and 4 and also fulfills the annual reporting requirement per 10 CFR 50.46(a)(3)(ii). The last annual report was submitted by FPL letter L-97-133 dated May 23, 1997.

Should there be any questions, please contact us.

Very truly yours,

R. J. Hovey
Vice President
Turkey Point Plant

OIH

attachment 220035

A001

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

Small Break LOCA (SBLOCA)

By letter L-97-133, dated May 23, 1997, 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-97-133.

Large Break LOCA (LBLOCA)

By letter L-97-133, dated May 23, 1997, FPL reported a PCT of 2159°F for the worst case LBLOCA transient analysis. On December 20, 1997, the NRC issued Amendment 195 to Facility Operating License No. DPR-31 for Turkey Point Unit 3, and Amendment 189 to Facility Operating License No. DPR-41 for the Turkey Point Unit 4, approving application of the Westinghouse generic Best Estimate (BE) LBLOCA analysis evaluation model for Turkey Point Units 3 and 4. Based on the PCT reported in L-97-133 of 2159°F, the net change in PCT for the worst case LBLOCA is a 92°F decrease in PCT, for a total PCT of 2067°F.

Summary

The peak clad temperature of 1666°F for the worst case SBLOCA and the revised PCT of 2067°F for the worst case LBLOCA, as summarized in Tables 1 and 2, are below the 10 CFR 50.46 Emergency Core Cooling System (ECCS) acceptance criteria limit of 2200°F. Turkey Point Units 3 and 4 remain in compliance with the ECCS 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-97-133	**1666°F**
Evaluations since issuance of FPL letter L-97-133	
None	0°F
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

Total LBLOCA PCT specified in FPL letter L-97-133	**2159°F**
Evaluations since issuance of FPL letter L-97-133	
BE LOCA methodology re-analysis	2040°F
Effect of Containment Purging	27°F
Imprecision due to use of BELOCA MOD 7 and 7A	0°F
Total Estimated LBLOCA PCT	**2067°F**