FPL

JAN 2 4 2002

L-2002-014
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. The attachment to this letter provides the Florida Power and Light Company (FPL) report for Turkey Point Units 3 and 4 for 2001.

Should there be any questions, please contact Olga Hanek at 305-246-6607.

Very truly yours,

John P. McElwain
Vice President
Turkey Point Plant

OIH

Attachment

cc: NRC Regulatory Issue Summary 2001-05 waived the requirements that multiple copies of documents be submitted to the NRC.

A001

Small Break Loss of Coolant Accident (SBLOCA)

By letter L-2001-010, dated January 29, 2001, Florida Power and Light Company (FPL) reported a Peak Clad Temperature (PCT) of 1691°F applicable for Unit 3, and a PCT of 1689°F applicable for Unit 4, for the SBLOCA transient analysis. There are no reported changes for the Turkey Point Units 3 and 4 SBLOCA PCT during 2001.

Large Break LOCA (LBLOCA)

By letter L-2001-010, dated January 29, 2001, FPL reported a PCT of 2105°F for the LBLOCA transient analysis. Since the last report, an 8°F PCT credit has been calculated as a result of the correction of a previous inconsistency in the way the core axial power distributions were verified for each reload. An alternate method using plant-specific limit lines was developed to address the inconsistency. A 12°F PCT penalty has been calculated due to an error in the decay heat uncertainty calculation in the Monte Carlo code used to calculate the 95th percentile PCT for BELOCA. These changes are summarized in Table 1. Based on the above, a PCT of 2109°F for the LBLOCA is applicable for both units.

Summary

The PCT of 1691°F for Unit 3 and 1689°F for Unit 4 for the SBLOCA and the PCT of 2109°F for the LBLOCA, 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 LBLOCA PEAK CLAD TEMPERATURE

Total LBLOCA PCT reported in 2000 Annual Report (FPL letter L-2001-010)	**2105°F**
Evaluations Performed in 2001	
Axial Power Distribution Inconsistency	-8°F
MONTECF Decay Heat Uncertainty Error	+12°F
Total Estimated LBLOCA PCT	**2109°F**