

CATEGORY 1

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ACCESSION NBR:9606040202 DOC.DATE: 96/05/29 NOTARIZED: NO DOCKET #
 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: Provides annual rept for Turkey Point,Units 3 & 4 re nature
 of changes to,or errors discovered in,ECCS evaluations
 models,or in applications of such models that affect PCT
 caluculation & their effect on limiting ECCS analysis.

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MAY 29 1996

L-96-128
10 CFR §50.46

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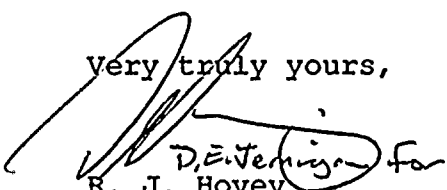
Gentlemen:

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 June 07, 1995.

Should there be any questions, please contact us.

Very truly yours,


R. J. Hovey
Vice President
Turkey Point Plant

JAH

attachment

cc: S. D. Ebnetter, 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-95-155, FPL reported a peak clad temperature (PCT) of 1963°F for the worst case SBLOCA transient analysis. This value was based upon a Turkey Point SBLOCA analysis performed by Westinghouse in 1991 using the NOTRUMP computer code. Due to the discovery of a computer coding error in specific enthalpy characterization, a 20°F penalty has been identified. Since the Burst and Blockage/Time in Life effect is a function of the base PCT, the Burst and Blockage/Time in Life effect has increased from 55°F to 70°F. The net change in PCT for the worst case SBLOCA is 35°F, for a total PCT of 1998°F.

Large Break LOCA (LBLOCA)

By letter L-95-155, FPL reported a PCT of 2086°F for the worst case LBLOCA transient analysis. This value was based upon a Turkey Point LBLOCA analysis performed by Westinghouse in 1991 using the BART computer code. A 10 CFR 50.46 Model Assessment resulted in a Skewed Power Shape Penalty of 14°F. The net change in PCT for the worst case LBLOCA is 14°F, for a total PCT of 2100°F.

Summary

The revised peak clad temperatures of 1998°F for the worst case SBLOCA and 2100°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 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).



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TABLE 1

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

Analysis of Record	1749°F
Total SBLOCA PCT reported in FPL letter L-95-155	1963°F
<u>Evaluations performed since the issuance of L-95-155</u>	
Specific Enthalpy coding error Penalty	20°F
Burst and Blockage/Time in Life Δ PCT* Penalty	15°F
Total Estimated SBLOCA PCT	1998°F

- * Burst and Blockage/Time in Life margin allocation specified in L-95-155, 55°F. The current SBLOCA evaluation Burst and Blockage/Time in Life margin allocation, 70°F.

TABLE 2

TURKEY POINT UNITS 3 AND 4

PREDICTED PEAK CLAD TEMPERATURES

CURRENT LBLOCA EVALUATIONS
THAT HAVE ASSESSED PCT PENALTIES

Analysis of Record	2082°F
Total LBLOCA PCT reported in FPL letter L-95-155	2086°F
<u>Evaluations performed since the issuance of L-95-155</u>	
Skewed Power Shape Penalty	14°F
Total Estimated LBLOCA PCT	2100°F