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SUBJECT: Forwards CENPD-279, "Annual Rept on C-E ECCS Codes & Methods for 10CFR50.46."

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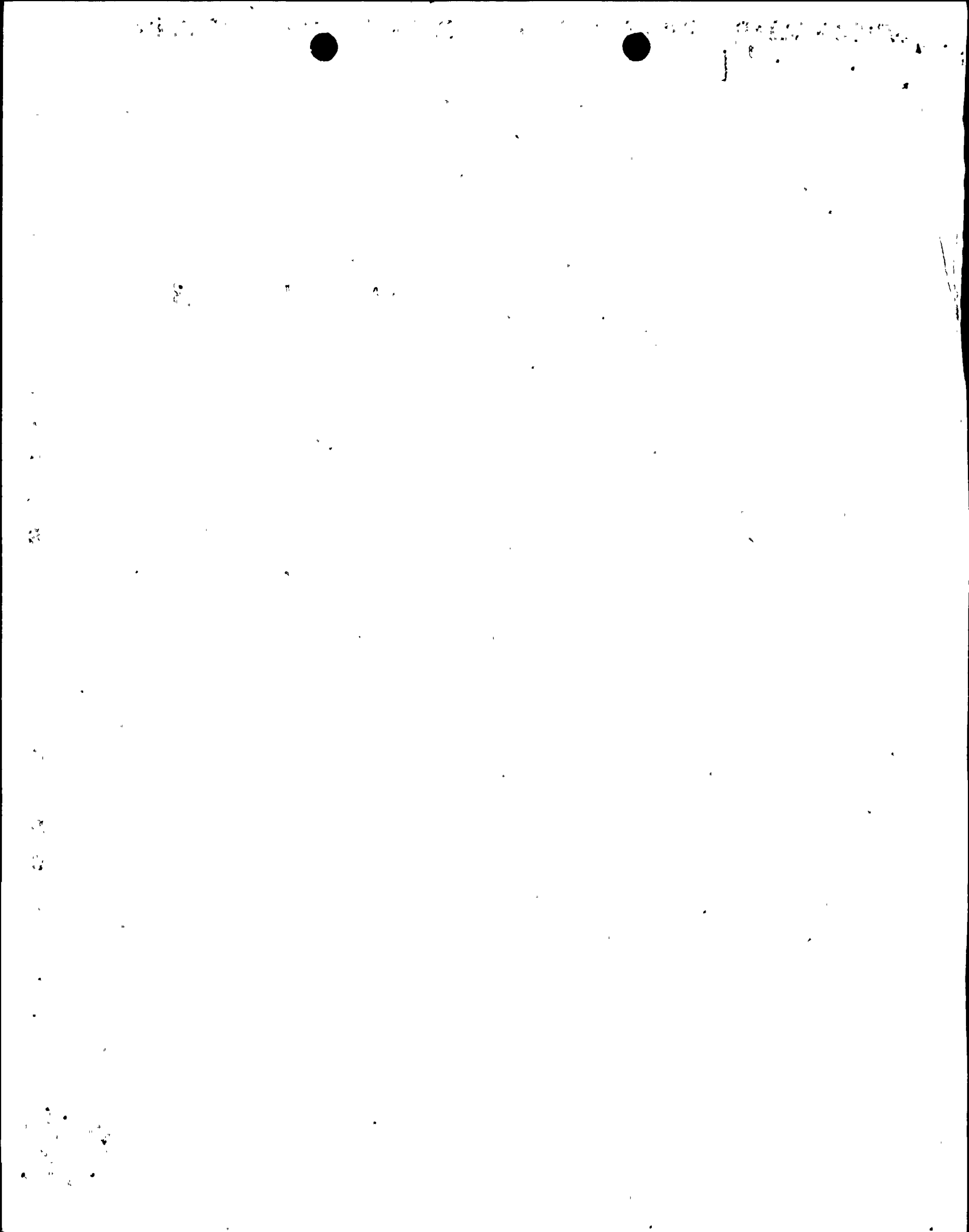
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NOVEMBER 16 1989

L-89-418
10 CFR 50.46

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

Gentlemen:

Re: St. Lucie Unit Nos. 1 and 2
Docket Nos. 50-335 and 50-389
10 CFR 50.46, "Acceptance Criteria for
Emergency Core Cooling Systems In Light Water
Nuclear Power Reactors" - Annual Report

Provided in Attachment 1, per 10 CFR 50.46(a)(3)(ii), is the St. Lucie Units 1 and 2 annual report listing each change to or error discovered in the emergency core cooling system (ECCS) evaluation models or in the applications of such models that affect the peak clad temperature calculation by less than 50°F.

The large break loss of coolant accident (LOCA) analysis of record for St. Lucie Unit 1 was performed by Advanced Nuclear Fuels and no changes or errors have been made in the ECCS models or their application from October 17, 1988 to October 16, 1989.

The large break LOCA analysis of record for St. Lucie Unit 2 and the small break LOCA analyses of record for St. Lucie Units 1 and 2 were performed by Combustion Engineering (CE). Attachment 2 is the CE report describing changes to, and errors from, the last approved version of CE's ECCS codes and methods through the end of 1988. The effect on the peak cladding temperature for the limiting transient was to reduce the temperature by less than 1°F for the large break LOCA. Correction of the error as described in Attachment 2 produced no change in peak clad temperature for the small break LOCA. No further changes have been made, or errors found, between the end of 1988 and October 16, 1989 for the CE models.

Should there be any questions, please contact us.

Very truly yours,

D. A. Sayer
Vice President
St. Lucie Plant

Attachments
DAS/MSD/gp

cc: Stewart D. Ebnetter, Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, St. Lucie Plant

an FPL Group company

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ATTACHMENT 1

10 CFR 50.46 ANNUAL REPORT REQUIREMENTS
OCTOBER 17, 1988 THROUGH OCTOBER 16, 1989

<u>Unit</u>	<u>ECCS Analysis Supplier</u>	<u>Errors or Changes (Y or N)</u>	<u>Effect on PCT</u>
St. Lucie Unit 1	Advanced Nuclear Fuels (LBLOCA)	N	None
	Combustion Engineering (SBLOCA)	Y	None (see Attachment 2)
St. Lucie Unit 2	Combustion Engineering (LBLOCA)	Y	<1°F (see Attachment 2)
	(SBLOCA)	Y	None (see Attachment 2)

ATTACHMENT 2

ANNUAL REPORT ON C-E ECCS CODES

AND METHODS FOR 10 CFR 50.46

(CE NPD-279)



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