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 AUTH.NAME AUTHOR AFFILIATION
 BOHLKE, W.H. Florida Power & Light Co.
 RECIP.NAME RECIPIENT AFFILIATION
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SUBJECT: Submits acceptance criteria for emergency core cooling sys for light water nuclear power reactors.

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February 29, 1996

L-96-036
10 CFR 50.46

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

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

Pursuant to 10 CFR 50.46(a)(3)(ii), the nature of any change to or error discovered in the evaluation models for emergency core cooling systems (ECCS), or in the application of such models, that affects the fuel cladding temperature calculations for St. Lucie Units 1 and 2 is reported in the attachment to this letter. The estimated effect from any such change or error on the limiting ECCS analysis for each unit is also addressed. The data interval for the report is from January 1 through December 31, 1995.

Should there be any questions, please contact us.

Very truly yours,

W. H. Bohlke
Vice President
St. Lucie Plant

WHB/RLD

Attachment

cc:

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

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Emergency core cooling system (ECCS) analyses for St. Lucie Unit 1 and St. Lucie Unit 2 are performed by Siemens Power Corporation (SPC) and Asea Brown Boveri-Combustion Engineering (ABB-CE), respectively. The following information pertaining to the evaluation models for small break loss of coolant accidents (SBLOCA) and large break loss of coolant accidents (LBLOCA), and the application of such models to each St. Lucie unit, is provided pursuant to 10 CFR 50.46(a)(3)(ii). The data interval for this report is from January 1 through December 31, 1995.

1. ST. LUCIE UNIT 1

Changes were not made to nor were errors discovered in SPC's evaluation models, or in their applications, that would affect the calculated peak cladding temperature (PCT) of the LBLOCA or the SBLOCA analyses of record. The LBLOCA remains the limiting ECCS analysis for St. Lucie Unit 1 with a calculated PCT of 1912 °F.

2. ST. LUCIE UNIT 2

Changes were not made to nor were errors discovered in ABB-CE's evaluation model, or in its application, that would affect the calculated PCT of the SBLOCA analysis of record.

One error was discovered and corrected in the input processing for one computer code used in ABB-CE's LBLOCA evaluation model. The error involved the maximum number of entries permitted for each input array that is used in the containment pressure module. There was no change in the PCT as a result of correcting this error.

The LBLOCA was evaluated during this reporting period as part of the core reload package for Fuel Cycle 9. Using revised values for initial containment pressure and spray temperature, the resultant calculated PCT is 2143 °F. This is an increase of 26 °F from the previous analysis of record. The LBLOCA remains the limiting ECCS analysis for St. Lucie Unit 2.