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SUBJECT: Submits 30-day rept per 10CFR50.46(a)(3)(ii) for plant,
 Unit 2, due to changes made in ECCS evaluation models.

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10 CFR 50.46

Carolina Power & Light Company
Robinson Nuclear Plant
3581 West Entrance Road
Hartsville SC 29550

File No: 13510
Serial: RNP-RA/95-004

JAN 20 1995

United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23
THIRTY-DAY REPORT PURSUANT TO 10 CFR 50.46

Gentlemen:

The purpose of this letter is to provide a 30-day report in accordance with 10 CFR 50.46(a)(3)(ii) for the H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2, due to changes made in our Emergency Core Cooling System (ECCS) evaluation models.

The ECCS evaluation model for the Small Break Loss-of-Coolant Accident (LOCA) has been reanalyzed. A summary of the new peak clad temperature, hot channel factor ($F_{\Delta H}$) and the total core power peaking factor (F_Q^T) results is contained in Enclosure 1.

This Small Break LOCA analysis uses the Siemens Power Corporation (SPC) calculation methodology approved by letter from Gary M. Holahan, NRC Director of Division of Systems Safety and Analysis, to R. A. Copeland of SPC, dated October 3, 1994.

The new plant specific Small Break LOCA analysis report is EMF-94-203(P), "H. B. Robinson Unit 2 Small Break LOCA Analysis," dated October 1994, and is proprietary to SPC. The limiting break size has increased from a 2 inch equivalent diameter area to a new limiting break size of 2.5 inches. A maximum Steam Generator tube plugging of 6% is included in the basis of the calculation.

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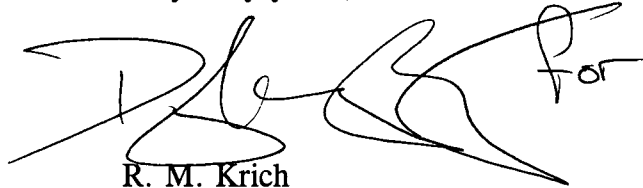
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Handwritten signature/initials

Please refer any questions regarding this submittal to Mr. K. R. Jury at (803) 857-1363.

Very truly yours,

A handwritten signature in black ink, appearing to be "R. M. Krich", with a stylized flourish at the end.

R. M. Krich
Manager - Regulatory Affairs

RES:res

Enclosure

c: Mr. S. D. Ebnetter, Regional Administrator, USNRC, Region II
Ms. B. L. Mozafari, USNRC Project Manager, HBRSEP
Mr. W. T. Orders, USNRC Senior Resident Inspector, HBRSEP

Enclosure to Serial: RNP-RA/95-004

COMPARISON OF PEAK CLADDING TEMPERATURES ANALYSES

	Peak Cladding Temperature	$F_{\Delta H}$	F_Q^T
New Small Break LOCA Analysis	1820°F	1.80	2.50
Previous Small Break LOCA Analysis (first half of cycle)	2033°F	1.70	2.40
Previous Small Break LOCA Analysis (second half of cycle)	2154°F	1.70	2.32