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SUBJECT: Provides 30 day rept per 10CFR50.46(a)(3)(ii) re changes to ECCS evaluation models.

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Carolina Power & Light Company
Robinson Nuclear Plant
PO Box 790
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November 3, 1993

Robinson File No.: 13510

Serial: RNP/93-2735

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 CFR50.46 - SMALL BREAK LOCA

Gentlemen:

The purpose of this letter is to provide a thirty (30) day report pursuant to 10 CFR50.46(a)(3)(ii) for the H. B. Robinson Steam Electric Plant, Unit No. 2 (HBR2) regarding changes in Emergency Core Cooling System (ECCS) evaluation models.

Effective the end of Refueling Outage (RFO) 15, the Small Break Loss of Coolant Accident (SBLOCA) analysis for Cycle 16 is being supplied by Siemens Power Corporation (SPC) instead of Westinghouse. The plant specific calculation report is EMF-93-173, dated October 1993, and is proprietary to SPC. The new analysis supports a hot channel factor ($F_{\Delta H}$) of 1.70 for all of Cycle 16 and a total core power peaking factor (F_Q^T) of 2.40 for cycle burnup less than 9,000 Megawatt Days per Metric Ton of Uranium (MWd/MTU) and F_Q^T = 2.32 for cycle burnup greater than 9,000 MWd/MTU. EMF-93-173(P) presents a calculated Peak Cladding Temperature (PCT) of 2033 °F for Beginning of Cycle conditions and 2154 °F for End of Cycle conditions.

For comparison, the previous (Westinghouse) result was a calculated PCT of 1923 °F for a combination of $F_{\Delta H}$ = 1.65 and F_Q^T = 2.32. The limiting break size remains unchanged as a 2" equivalent diameter area.

EMF-93-173(P) is an application of methods that have previously been reviewed and approved by the NRC. Please note that it does not rely on the methodology change that is currently in the process of being reviewed by the NRC.

Also, recent changes in the Westinghouse NOTRUMP SBLOCA evaluation model (presented in NSAL-93-018E, dated September 21, 1993, and NSAL-93-019-G, dated September 23, 1993), have been superseded by EMF-93-173(P) for HBR2.

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Questions regarding this matter may be referred to Mr. Jan S. Kozyra at (803)-383-1872.

Very truly yours,

David B. Waters - Manager
Regulatory Affairs

JSK:lst
c: Mr. S. D. Ebneter
Ms. B. L. Mozafari
Mr. W. T. Orders