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SUBJECT: Provides info per 10CFR50.46(a)(3(ii)) for HNP re change in ECCS evaluation model.

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SERIAL: HNP-95-098
10 CFR 50.46(a)(3)(ii)

NOV - 9 1995

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

SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63
EMERGENCY CORE COOLING SYSTEM EVALUATION MODEL CHANGE
FOR THE SMALL BREAK LOSS OF COOLING ACCIDENT

Gentlemen:

The purpose of this letter is to submit information required pursuant to 10 CFR 50.46(a)(3)(ii) for the Harris Nuclear Plant (HNP) regarding a change in the Emergency Core Cooling System (ECCS) evaluation model. The Small Break Loss of Coolant Accident (SBLOCA) analysis for HNP has been reanalyzed for operation commencing with cycle 7. As a result, the Peak Clad Temperature (PCT) was reduced by an amount greater than 50°F. Therefore, this submittal fulfills the 10 CFR 50.46 requirements for a 30-day report.

The new analysis was performed by Siemens Power Corporation using the following methodologies:

1. XN-NF-82-49(A), Revision 1, "Exxon Nuclear Company Evaluation Model- EXEM PWR Small Break Model," June 1986.
2. XN-NF-82-49(P)(A), Revision 1, Supplement 1 and Correspondence, "Exxon Nuclear Company Evaluation Model- EXEM PWR Small Break Model," December 1994.
3. XN-NF-81-58(A), Revision 2 and Supplements 1 through 4, "RODEX2 Fuel Rod Thermal-Mechanical Response Evaluation Mode." Revision 2 and the Supplements 1 and 2 are dated March 1984, and Supplements 3 and 4 are dated June 1990.

The revised PCT for HNP using the Siemens methodologies is 1953.3°F. This represents a reduction of 245.7°F from the prior PCT of 2199°F as calculated by Westinghouse analysis methodologies.

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The calculated HNP ECCS performance during SBLOCA continues to satisfy the acceptance criteria specified in 10 CFR 50.46(b)(1); i.e., calculated maximum PCT shall not exceed 2200°F.

Questions regarding this matter may be referred to Mr. T. D. Walt at (919) 362-2711.

Sincerely,



SDC/sdc

c: Mr. S. D. Ebnetter
Mr. N. B. Le
Mr. D. J. Roberts

