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

**SUPPLEMENT NO. 2 TO REQUEST FOR LICENSE AMENDMENT
EXTENDED POWER UPRATE
STABILITY REPORTS
HOPE CREEK GENERATING STATION
FACILITY OPERATING LICENSE NPF-57
DOCKET NO. 50-354**

- References: 1) PSEG letter, LR-N05-0258, Request for License Amendment:
Extended Power Uprate, November 7, 2005
- 2) NRC Letter to GE Nuclear Energy, Review of Extended Power Uprates
for Boiling Water Reactors, June 25, 2003
- 3) PSEG letter LR-N05-0021, Revised Backup Stability Protection
Evaluation Report, January 12, 2005

By the Reference 1 letter, PSEG Nuclear LLC (PSEG) requested an amendment to Facility Operating License NPF-57 and the Technical Specifications (TS) for the Hope Creek Generating Station to increase the maximum authorized power level to 3840 megawatts thermal (MWt).

In the Reference 2 letter, the NRC described additional plant-specific information to be submitted by licensees applying for extended power uprate (EPU) with a mixed core. PSEG plans to implement the extended power uprate (EPU) with a mixed core. In accordance with the guidance in Reference 2, PSEG is providing the additional reports in support of the NRC's review of the proposed amendment.

In the Reference 3 letter, PSEG provided a report describing the evaluation performed to establish the Backup Stability Protection (BSP) regions to be used in the event the

***This letter forwards proprietary information in accordance with
10 CFR 2.390. The balance of this letter may be considered non-proprietary
upon removal of Attachments 1, 2 and 3.***

APO1

Oscillation Power Range Monitor (OPRM) becomes inoperable during Hope Creek Cycle 13 (the current operating cycle). The report in Attachment 1 describes the same analysis performed for a mixed core of SVEA 96+ and GE14 fuel at a Constant Pressure Power Uprate (CPPU) condition in the Maximum Extended Load Line Limit Analysis (MELLLA) domain.

The report in Attachment 2 describes the analysis performed for the plant specific Delta CPR over Initial MCPR versus Oscillation Magnitude (DIVOM) curve for use in Hope Creek Cycle 13 (the current operating cycle). The report in Attachment 3 describes the same analysis performed for a mixed core of SVEA 96+ and GE14 fuel at a CPPU condition in the MELLLA domain.

The report in Attachment 4 summarizes the stability based Operating Limit Minimum Critical Power Ratios (OLMCPRs) for Hope Creek Cycle 13 operation in the Extended Load Line Limit Analysis (ELLLA) domain. The report in Attachment 5 summarizes the stability based OLMCPRs for a mixed core of SVEA 96+ and GE14 fuel at a CPPU condition in the MELLLA domain.

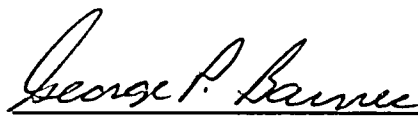
Attachments 1, 2 and 3 contain proprietary information as defined by 10 CFR 2.390. GE, as the owner of the proprietary information, has executed the affidavits included in Attachments 1, 2 and 3 which identify that the attached proprietary information has been handled and classified as proprietary, is customarily held in confidence, and has been withheld from public disclosure. GE requests that the proprietary information be withheld from public disclosure in accordance with the provisions of 10 CFR 2.390 and 9.17. Non-proprietary versions suitable for public disclosure are provided in Attachments 6, 7 and 8.

PSEG has determined that the information contained in this letter and attachments does not alter the conclusions reached in the 10CFR50.92 no significant hazards analysis previously submitted.

If you have any questions or require additional information, please contact Mr. Paul Duke at (856) 339-1466.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on 11-4-05
(date)


George P. Barnes
Site Vice President
Hope Creek Generating Station

Attachments (8)

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