

PSEG Nuclear LLC

P.O. Box 236, Hancocks Bridge, NJ 08038-0236



JAN 22 2018

10 CFR 50.90

LR-N18-0009
LAR H17-03

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Hope Creek Generating Station
Renewed Facility Operating License No. NPF-57
NRC Docket No. 50-354

Subject: **SUPPLEMENTAL INFORMATION FOR THE RESPONSE TO REQUEST FOR
ADDITIONAL INFORMATION REGARDING LICENSE AMENDMENT
REQUEST FOR MEASUREMENT UNCERTAINTY RECAPTURE POWER
UPRATE (CAC NO. MF9930)**

- References
1. PSEG letter to NRC, "License Amendment Request for Measurement Uncertainty Recapture (MUR) Power Uprate," dated July 7, 2017 (ADAMS Accession No. ML17188A260)
 2. NRC e-mail to PSEG, " Final Reactor Systems Branch (SXR) Request for Additional Information – HOPE CREEK MUR (CAC MF9930)," dated December 14, 2017 (ADAMS Accession No. ML17349A081)
 3. PSEG letter to NRC, "Response to Request for Additional Information Regarding License Amendment Request for Measurement Uncertainty Recapture Power Uprate (CAC No. MF9930)," dated December 22, 2017 (ADAMS Accession No. ML17356A139)
 4. PSEG letter to NRC, supplement to License Amendment Request for Extended Power Uprate," dated February 16, 2007 (ADAMS Accession No. ML070590182)
 5. PSEG letter to NRC, "Response to Request for Additional Information Request for License Amendment – Extended Power Uprate," dated March 30, 2007 (ADAMS Accession No. ML071010243)

6. NRC letter to PSEG, "Hope Creek Generating Station – Issuance of Amendment Re: Extended Power Uprate (TAC No. MD3002)," dated May 14, 2008 (ADAMS Accession No. ML081230581 Cover Letter and ML081230640 Safety Evaluation Report)

In the Reference 1 letter, PSEG Nuclear LLC (PSEG) submitted a license amendment request for Hope Creek Generating Station (HCGS). The proposed amendment will increase the rated thermal power (RTP) level from 3840 megawatts thermal (MWt) to 3902 MWt, and make Technical Specification (TS) changes as necessary to support operation at the uprated power level.

In Reference 2, the U.S. Nuclear Regulatory Commission staff provided PSEG a Request for Additional Information (RAI) to support the NRC staff's detailed technical review of Reference 1. In Reference 3, PSEG provided the responses to the MUR RAI in Reference 2.

In the response to MUR RAI question SXR-2 (Reference 3), PSEG stated that the Appendix R analysis for Hope Creek was performed at a power level of 3916.8 MWt (102% of 3840 MWt) which bounds the MUR power level of 3902 MWt. Following receipt of this information, the NRC requested that PSEG confirm the power level and peak suppression pool temperature values in Reference 3 since they conflicted with the information contained in the NRC Safety Evaluation Report for the Hope Creek Extended Power Uprate (EPU) (Reference 6).

The information contained in Section 2.6.5 of the NRC SER for EPU was the result of incorrect information provided to the NRC in an EPU RAI response dated March 30, 2007 (Reference 5). In Reference 5, PSEG provided a response to EPU RAI Question 13.14 which stated that the Hope Creek Appendix R analysis was performed at 3840 MWt with a peak suppression pool temperature of 205.9°F.

In developing the response to MUR RAI question SXR-2, PSEG performed a review of the EPU Appendix R evaluations and identified that the November 2006 Appendix R evaluation which supported the February 16, 2007 submittal (Reference 4) was the EPU Appendix R analysis of record. The review of the November 2006 Appendix R evaluation shows that the evaluation was performed at a power level of 3916.8 MWt (102% of 3840 MWt) and resulted in a peak suppression pool temperature of 206.3°F. No changes were made since the November 2006 analysis described in Reference 4 was completed. Therefore the information contained in the EPU RAI Question 13.14 response (Reference 5) regarding the Appendix R event was in error.

PSEG has documented the above error in the corrective action program. As stated in the December 22, 2017 MUR RAI response, the Appendix R peak suppression pool temperature of 206.3°F was bounded and continues to be bounded by the ECCS net positive suction head (NPSH) evaluations which were performed at a 218°F suppression pool temperature.

PSEG has determined that the information provided in this submittal does not alter the conclusions reached in the 10 CFR 50.92 no significant hazards determination previously submitted. In addition, the information provided in this submittal does not affect the bases for concluding that neither an environmental impact statement nor an environmental assessment needs to be prepared in connection with the proposed amendment.

No new regulatory commitments are established by this submittal. If you have any questions or require additional information, please do not hesitate to contact Mr. Brian Thomas at (856) 339-2022.

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

Executed on 1/22/18
(Date)

Respectfully,



Eric Carr
Site Vice President
Hope Creek Generating Station

cc: Mr. D. Dorman, Administrator, Region I, NRC
Ms. L. Regner, Project Manager, NRC
NRC Senior Resident Inspector, Hope Creek
Mr. P. Mulligan, Chief, NJBNE
Mr. L. Marabella, Corporate Commitment Tracking Coordinator
Mr. T. MacEwen, Hope Creek Commitment Tracking Coordinator