

December 21, 2007

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

Peach Bottom Atomic Power Station, Units 2 and 3  
Renewed Facility Operating License Nos. DPR-44 and DPR-56  
Docket Nos. 50-277 and 50-278

Subject: License Amendment Request - Revise LPRM Calibration Frequency  
Global Nuclear Fuel Report - "Exelon Nuclear LPRM Calibration Interval  
Increase for Peach Bottom Atomic Power Station, Units 2 and 3"

- References:
- 1) Letter from P. B. Cowan, Exelon Generation Company, LLC, to U.S. Nuclear Regulatory Commission, "License Amendment Request - Revise Local Power Range Monitor Calibration Frequency," dated November 17, 2006
  - 2) U.S. Nuclear Regulatory Commission e-mail dated August 15, 2007, for Peach Bottom Atomic Power Station, Units 2 and 3, draft Request for Additional Information Related to Exelon License Amendment Request Regarding Revisions to the Local Power Range Monitor Calibration Frequency (TAC Nos. MD3717/3718)
  - 3) Letter from P. B. Cowan, Exelon Generation Company, LLC, to U.S. Nuclear Regulatory Commission, "Response to Request for Additional Information Concerning License Amendment Request to Revise Local Power Range Monitor Calibration Frequency," dated September 21, 2007
  - 4) Letter from John D. Hughey, U.S. Nuclear Regulatory Commission, to Mr. Charles G. Pardee, Exelon Generation Company, LLC, "Peach Bottom Atomic Power Station, Units 2 and 3, - Proposed Amendment to Extend Local Power Range Monitor Calibration Interval" (TAC Nos. MD3717 and MD3718), dated December 14, 2007

By letter dated November 17, 2006 (Reference 1), Exelon Generation Company, LLC (Exelon) requested changes to the Technical Specifications (TS), Appendix A of Renewed Facility Operating License Nos. DPR-44 and DPR-56 for Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3, respectively. The proposed changes would increase the interval between Local Power Range Monitor (LPRM) calibrations from 1000 megawatt-days/ton (MWD/T) to 2000 MWD/T. In Reference 2, the NRC requested additional information concerning the PBAPS License Amendment Request (LAR). Exelon submitted a response to the NRC's request for additional information by letter dated September 21, 2007 (Reference 3).

Subsequently, during teleconference discussions with NRC and Exelon representatives on November 27, 2007, the NRC requested additional information to support extending the LPRM calibration interval at PBAPS. Specifically, the NRC requested that Exelon submit a plant specific evaluation to further justify increasing the nominal LPRM calibration interval to 2000 MWD/T.

On December 6, 2007, during a follow-up teleconference, Exelon agreed to submit additional information in support of extending the LPRM calibration interval at PBAPS, Units 2 and 3. Exelon indicated that the additional information would be an evaluation prepared by Global Nuclear Fuel (GNF), and the evaluation would be submitted to the NRC by December 21, 2007. The Reference 4 letter confirms this agreement.

Accordingly, attached is a PBAPS plant specific evaluation prepared by GNF that supports extending the nominal LPRM calibration interval from 1000 MWD/T to 2000 MWD/T. Attachment 1 to this letter provides GNF Report 0000-0079-0736, "*Exelon Nuclear LPRM Calibration Interval Increase for Peach Bottom Atomic Power Station, Units 2 and 3*," dated December 2007, which GNF considers to contain proprietary information. The proprietary information is identified by bracketed text. GNF requests that the proprietary information in Attachment 1 be withheld from public disclosure, in accordance with the requirements of 10 CFR 9.17(a)(4) and 10 CFR 2.390(a)(4). An original signed affidavit supporting this request is included in Attachment 1 to this letter. Attachment 2 to this letter provides a *non-proprietary* version of the GNF Report (0000-0079-0736-NP).

Exelon has concluded that the information provided in this response does not impact the conclusions of the: 1) Technical Analysis, 2) No Significant Hazards Consideration under the standards set forth in 10 CFR 50.92(c), or 3) Environmental Consideration as provided in the Reference 1 and Reference 3 letters.

There are no regulatory commitments contained within this letter. If you have any further questions or require additional information, please contact Richard Gropp at 610-765-5557.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 21st day of December 2007.

Respectfully,

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Pamela B. Cowan  
Director – Licensing and Regulatory Affairs  
Exelon Generation Company, LLC

Attachment 1: Global Nuclear Fuel Report 0000-0079-0736 – Exelon Nuclear LPRM Calibration Interval Increase for Peach Bottom Atomic Power Station, Units 2 and 3 (Proprietary Version and supporting Affidavit)

Attachment 2: Global Nuclear Fuel Report 0000-0079-0736-NP – Exelon Nuclear LPRM Calibration Interval Increase for Peach Bottom Atomic Power Station, Units 2 and 3 (Non-Proprietary Version)

cc: Regional Administrator - NRC Region I w/ Attachment 2  
NRC Senior Resident Inspector - PBAPS “  
NRC Project Manager, NRR - PBAPS “  
Director, Bureau of Radiation Protection - Pennsylvania Department of Environmental Protection “