



10 CFR 50  
10 CFR 51  
10 CFR 54

July 10, 2018

U.S. Nuclear Regulatory Commission  
Attention: 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  
NRC Docket Nos. 50-277 and 50-278

Subject: Application for Subsequent Renewed Operating Licenses

Pursuant to the *Code of Federal Regulations*, Title 10, Parts 50, 51, and 54, Exelon Generation Company, LLC (Exelon) hereby applies for the renewal of the Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3, Renewed Facility Operating Licenses, Nos. DPR-44 and DPR-56, respectively.

The existing PBAPS renewed facility operating licenses are currently set to expire as follows:

- At midnight on August 8, 2033 for Unit 2 (Facility Operating License No. DPR-44)
- At midnight on July 2, 2034 for Unit 3 (Facility Operating License No. DPR-56)

Exelon seeks to extend the respective operating terms by 20 years beyond the current renewed license expiration dates.

The enclosed Subsequent License Renewal Application (SLRA) contains the information required by the License Renewal regulations set forth in 10 CFR Parts 54 and 51, and meets the submittal timeliness requirements of 10 CFR 54.17(c) and 10 CFR 2.109(b).

As required by 10 CFR 54.21(b), current licensing basis changes which have a material effect on the content of this application will be identified annually while the application is under NRC review, and at least three months prior to the scheduled completion of the NRC review.

Appendix A, Section A.5, of the enclosed PBAPS SLRA provides a list of commitments made in this application. This list will be updated as required throughout the SLRA review process.

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In accordance with 10 CFR Part 50, Appendix H, and NUREG-2192, "Standard Review Plan for Review of Subsequent License Renewal Applications for Nuclear Power Plants," an update to the PBAPS reactor surveillance capsule withdrawal schedule addressing the subsequent (i.e., second) period of extended operation is included within this submittal, for NRC approval. The capsule withdrawal schedule is provided in Enhancement 1 of the Reactor Vessel Material Surveillance program, as shown in SLRA Sections A.2.1.20, A.5 (Commitment 20), and B.2.1.20.

The enclosed SLRA is being submitted electronically. A total of one (1) CD-ROM is included in this electronic submission. The CD-ROM labeled "PB\_SLRA" contains the following six (6) files:

001 \_PB\_SLRA.pdf 8,881,000 bytes, publicly available  
002 \_PB\_ERMain.pdf 89,563,000 bytes, publicly available  
003 \_PB\_ER\_AppA\_B.pdf 31,183,000 bytes, publicly available  
004 \_PB\_ER\_AppC1\_Part\_1\_of\_2\_.pdf 75,043,000 bytes, publicly available  
005 \_PB\_ER\_AppC1\_Part\_2\_of\_2\_.pdf 96,107,000 bytes, publicly available  
006 \_PB\_ER\_AppC2\_C3\_D\_E.pdf 20,633,000 bytes, publicly available

Exelon has reviewed all information contained in the above files and verified that none of the information is marked as proprietary.

If you have any questions, please contact:

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

Executed on 07-10-2018

Respectfully,

  
Michael P. Gallagher  
Vice President - License Renewal and Decommissioning  
Exelon Generation Company, LLC

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Enclosure: CD-ROM labeled "PB\_SLRA"

cc: without Enclosure  
Regional Administrator – NRC Region I  
NRC Project Manager (Safety Review), NRR-DMLR  
NRC Project Manager (Environmental Review), NRR-DMLR  
NRC Project Manager, NRR-DORL – Peach Bottom Atomic Power Station  
NRC Senior Resident Inspector, Peach Bottom Atomic Power Station  
R.R. Janati, Manager, BRP Nuclear Safety Program, Pennsylvania Department of  
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S.T. Gray, Deputy Division Director PPAD, Maryland Department of Natural Resources