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10 CFR 50.90

August 16, 2010

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 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: Supplemental Information for License Amendment Request Concerning Non-Conservative Technical Specification Associated with the Amount of Liquid Nitrogen Storage

References:

1) Letter from P. B. Cowan (Exelon Generation Company, LLC) to U.S. Nuclear Regulatory Commission - License Amendment Request for Non-Conservative Technical Specification Associated with the Amount of Liquid Nitrogen Storage - dated June 25, 2010 (ML101790114)

2) Letter from J. D. Hughey (U.S. Nuclear Regulatory Commission) to M. J. Pacilio (Exelon Generation Company, LLC), "Peach Bottom Atomic Power Station, Units 2 and 3: Supplemental Information Needed for Acceptance of Requested Licensing Action Re: Liquid Nitrogen Storage (TAC Nos. ME4131 and ME4132)," dated July 30, 2010 (ML102110061)

By letter dated June 25, 2010 (Reference 1), Exelon Generation Company, LLC, (Exelon) submitted a License Amendment Request (LAR) for the Peach Bottom Atomic Power Station (PBAPS), Units 2 and 3, requesting changes to the Technical Specifications (TS) to address non-conservative TS Surveillance Requirements (SR) associated with the amount of nitrogen available in the liquid nitrogen storage tank.

By letter dated July 30, 2010 (Reference 2), the U.S. Nuclear Regulatory Commission (NRC) provided the results of the acceptance review for the proposed LAR. The NRC concluded that additional information is necessary to enable the NRC to make an independent assessment regarding the acceptability of the proposed amendment request in terms of regulatory requirements and the protection of the public health and safety and the environment. Specifically, the NRC requests that Exelon provide the calculations that determined the tank level versus volume correlation for 16 inches of water column to 50,000 standard cubic feet (scf) and 22 inches of water column to 124,000 scf as discussed in the proposed LAR. The NRC requested that Exelon provide the supplemental information by August 18, 2010.

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Accordingly, the attachment to this letter contains a copy of Calculation PM-0375, Revision 4, *"To Establish Limiting Demand for N_2 for the CAD System and the SGIG System for Dual Unit Operation,"* for PBAPS, Units 2 and 3, which provides the requested information.

There is no adverse impact to the No Significant Hazards Consideration submitted in the Reference 1 letter. There are no additional commitments contained within this submittal. If you have any questions or require additional information, please contact Mr. Richard Gropp at (610) 765-5557.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 16th day of August 2010.

Respectfully,

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

Attachment: PBAPS, Units 2 and 3, Calculation PM-0375, Revision 4, *"To Establish Limiting Demand for N_2 for the CAD System and the SGIG System for Dual Unit Operation"*

cc: NRC Region I, Regional Administrator
NRC Project Manager, NRR - Peach Bottom
NRC Senior Resident Inspector - Peach Bottom
S. T. Gray, State of Maryland
R. R. Janati, Bureau of Radiation Protection, Commonwealth of Pennsylvania

bcc:	P. Steinhauer, PSEG	w/o Attachment
	Sr. Vice President, Mid-Atlantic Operations	"
	Vice President, Licensing & Regulatory Affairs	"
	Sr. Vice President, Operations Support	"
	Site Vice President – PBAPS	"
	Plant Manager – PBAPS	"
	Director, Operations – PBAPS	"
	Director, Engineering	"
	Director, Site Engineering – PBAPS	"
	Director, Site Training – PBAPS	"
	Manager, Regulatory Assurance – PBAPS	"
	Manager, Licensing	"
	Commitment Coordinator - KSA-3E	"
	Records Management - KSA-1N1	"