

Exelon Nuclear
Peach Bottom Atomic Power Station
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April 29, 2010

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

Subject: Peach Bottom Atomic Power Station Units 2 and 3
Independent Spent Fuel Storage Installation (ISFSI)
Facility Operating License DPR-44 and DPR-56
NRC Docket 50-277 and 50-278 and ISFSI Docket 72-29

Radioactive Effluent Release Report 52
January 1, 2009 through December 31, 2009

Enclosed is the Radioactive Effluent Release Report 52, January 1, 2009, through December 31, 2009, for Peach Bottom Atomic Power Station Units 2 and 3.

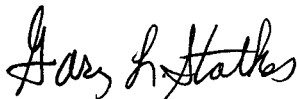
This report is being submitted in compliance with 10CFR50.36a (2) and the Technical Specifications of Operating Licenses DPR-44 and DPR-56, and to fulfill the requirements of ODCM 3.10.2. Additionally, this report is submitted to satisfy annual effluent reporting requirements for the ISFSI required by the Offsite Dose Calculation Manual (ODCM).

There was a revision made to the ODCM for the 2009 reporting period.

There are no commitments contained in this letter.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,



Garey L. Stathes
Plant Manager
Peach Bottom Atomic Power Station

GLS/LJL/AMC/bcb

Enclosure (2)

ccn 10-39

cc: S. J. Collins, Administrator, Region I, USNRC
G. F. Wunder, Project Manager, USNRC
F. Bower, USNRC Senior Resident Inspector, PBAPS A4

A009
IE48
IE17

NRR
NMSS