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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

January 29, 2010

Charles G. Pardee  
Senior Vice President, Exelon Generation Company LLC  
Peach Bottom Atomic Power Station - NRC ISFSI  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, NRC ISFSI SECURITY  
INSPECTION REPORT NOS. 05000277/2010402 AND 05000278/2010402

Dear Mr. Pardee:

On January 6, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed an Independent Spent Fuel Storage Installation (ISFSI) security inspection at your Peach Bottom Atomic Power Station, Units 2 and 3. The inspection covered the NRC's Additional Security Measures (ASMs) for the Physical Protection of Dry Independent Spent Fuel Storage Installations. The enclosed inspection report documents the inspection results, which were discussed with Jim Kovalchick and other members of your staff.

The inspection examined activities conducted under your license as they relate to security and compliance with the Commission's rules and regulations and with the conditions of your license. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room). However, because of the security-related concerns contained in the enclosure, and in accordance with 10 CFR 2.390, a copy of this letter's enclosure will not be available for public inspection.

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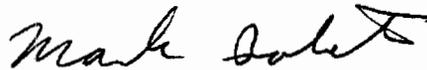
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C. Pardee

In accordance with 10 CFR 2.390(b)(1)(ii), the NRC is waiving the affidavit requirements for your response, if any. This practice will ensure that your response will not be made available electronically for public inspection in the NRC Public Document Room or from the NRC's document system, ADAMS. If Safeguards Information is necessary to provide an acceptable response, please provide the level of protection described in 10 CFR 73.21. Otherwise, mark your entire response "Security-Related Information-Withhold Under 10 CFR 2.390" and follow the instructions for withholding in 10 CFR 2.390(b)(1).

Thank you for your cooperation during this inspection.

Sincerely,



for Judith A. Joustra, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket Nos. 50-277, 50-278  
License Nos. DPR-44, DPR-56

Enclosure: Inspection Report Nos. 05000277/2010402 and 05000278/2010402  
w/Attachment: Supplemental Information  
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D. Deboer, Manager, Site Security  
D. Allard, Director, PA DEP  
J. Powers, Director, PA Office of Homeland Security  
A. Lauland, Director, MD Office of Homeland Security

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C. Pardee

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In accordance with 10 CFR 2.390(b)(1)(ii), the NRC is waiving the affidavit requirements for your response, if any. This practice will ensure that your response will not be made available electronically for public inspection in the NRC Public Document Room or from the NRC's document system, ADAMS. If Safeguards Information is necessary to provide an acceptable response, please provide the level of protection described in 10 CFR 73.21. Otherwise, mark your entire response "Security-Related Information-Withhold Under 10 CFR 2.390" and follow the instructions for withholding in 10 CFR 2.390(b)(1).

Thank you for your cooperation during this inspection.

Sincerely,

**Original signed by Mark Roberts For**

Judith A. Joustra, Chief  
Decommissioning Branch  
Division of Nuclear Materials Safety

Docket Nos. 50-277, 50-278  
License Nos. DPR-44, DPR-56

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C. Pardee

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