

~~OFFICIAL USE ONLY~~ ~~SECURITY-RELATED INFORMATION~~

December 14, 2010

Mr. Michael J. Pacilio
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer (CNO), Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION - NRC MATERIAL CONTROL
AND ACCOUNTING PROGRAM INSPECTION REPORT NO.
05000277/2010404 AND 05000278/2010404

Dear Mr. Pacilio:

On November 18, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed a security baseline inspection at your Peach Bottom Atomic Power Station. The inspection covered one of the key attributes of the security cornerstone of the NRC's Reactor Oversight Process. The enclosed inspection report documents the inspection results, which were discussed on November 18, 2010, with Mr. T. Dougherty, Site Vice President, and other members of your staff.

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

Based on the results of this inspection, no findings 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 (PARS) component of the 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 information 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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Sincerely,

/RA/

Raymond J. Powell, Chief
Technical Support and Assessment Branch
Division of Reactor Projects

Docket No. 50-277, 50-278
License No. DPR-44, DPR-56

Nonpublic Enclosure: NRC Inspection Report 05000277/2010404 and 05000278/2010404
w/Attachment: Supplemental Information
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cc w/encl; w/OUO-SRI

J. Kovalchick, Manager, Site Security
D. Allard, Director, PA Bureau Radiation Protection
J. Powers, Director, PA Office of Homeland Security
A. Lauland, Director, Homeland Security Advisor, Maryland
S. Wilson, Secretary, Maryland Department of Environment

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