

SAFEGUARDS INFORMATION

October 15, 2010

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

SUBJECT: BYRON STATION, UNITS 1 AND 2; NRC SECURITY INSPECTION REPORT
05000454/2010201; 05000455/2010201

Dear Mr. Pacilio:

On September 3, 2010, the U.S. Nuclear Regulatory Commission (NRC) completed a security baseline inspection at your Byron Station. The inspection covered one or more 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 September 23, 2010, with Mr. Bradley Adams 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.

No findings of significance were identified.

In accordance with Title 10 of the *Code of Federal Regulations* (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 of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site 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.

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).

Enclosure(s) transmitted herewith contain(s) Safeguards Information. When separated from enclosure(s), this transmittal document is decontrolled.

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M. Pacilio

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Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

Sincerely,

/RA/

Robert C. Johnson, Chief
Security Performance Evaluation Branch
Division of Security Operations
Office of Nuclear Security and Incident Response

Docket Nos.: 50-454, 50-455
License Nos.: NPF-37, NPF-66

Enclosure: Inspection Report 05000454/2010201 and 05000455/2010201 w/Attachments:
Supplemental Information, Table of Security personnel, Exercise One, Exercise Two,
and Exercise Three (SAFEGUARDS)

cc w/encl: S. Coker, NSIR
C. Johnson, NSIR
J. Curry, NSIR
D. Brady, NSIR
J. Trapp, RI
M. Ernstes, RII
R. Skowkowski, RIII
M. Shannon, RIV
L. Askren, Byron Station

cc w/o encl: C. Kelley, Exelon Generation Co., LLC

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cc w/o encl: C. Kelley, Exelon Generation Co., LLC

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OFFICE	NSIR/DSO/SPEB	NSIR/DSO/SPEB	NSIR/DSO	RIII	NSIR/DSO/SPEB
NAME	R. Rockhill	D. Cardenas	J. Curry	G. Hansen	C. Johnson
DATE	10/06/10	10/06/10	10/06/10	10/06/10	10/15/10

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