



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

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

December 10, 2009

Mr. Charles G. Pardee  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO), Exelon Nuclear  
4300 Winfield Road  
Warrenville IL 60555

SUBJECT: BYRON STATION, UNITS 1 AND 2  
NRC SECURITY BASELINE INSPECTION REPORT 05000454/2009403(DRS);  
05000455/2009403(DRS)

Dear Mr. Pardee:

On October 30, 2009, 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 October 30, 2009, with Mr. Scot Greenlee 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.

This report documents one finding of very low security significance (i.e., Green as determined by the Physical Protection Significance Determination Process). The deficiency was promptly corrected or compensated for, and the plant was in compliance with applicable physical protection and security requirements within the scope of this inspection before the inspectors left the site.

The finding had a cross-cutting aspect in the area of Human Performance/Decision Making because the licensee did not use conservative assumptions in decision making (H.1(b)).

Enclosure contains Sensitive Unclassified  
Non-Safeguards Information. When separated  
from enclosure, this transmittal document is  
decontrolled.

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

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

G. Pardee

-2-

If you disagree with the characterization of any finding in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the Regional Administrator, Region III, and the NRC Resident Inspector at Byron Station. The information you provide will be considered in accordance with Inspection Manual Chapter 0305.

The finding was NRC-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), 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 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).

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

Sincerely,

*/RA/*

Eric Duncan, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Nos. 50-454; 50-455  
License Nos. NPF-37; NPF-66

Nonpublic Enclosure: Inspection Report 05000454/2009403;  
05000455/2009403(DRS)  
w/Attachment: Supplemental Information

DISTRIBUTION:  
See next page

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

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

Letter to Charles G. Pardee from Eric Duncan dated December 10, 2009.

SUBJECT: BYRON STATION, UNITS 1 AND 2  
NRC SECURITY BASELINE INSPECTION REPORT 05000454/2009403(DRS);  
05000455/2009403(DRS)

cc w/encl: S. Coker, NSIR/DSO/DDSO/ST  
L. Askren, Byron Station Security Manager  
J. Klinger, State Liaison Officer,  
Illinois Emergency Management Agency

cc w/encl: Distribution via ListServ

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

**OFFICIAL USE ONLY – SECURITY-RELATED INFORMATION**

G. Pardee

-2-

If you disagree with the characterization of any finding in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the Regional Administrator, Region III, and the NRC Resident Inspector at Byron Station. The information you provide will be considered in accordance with Inspection Manual Chapter 0305.

The finding was NRC-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), 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 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).

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

Sincerely,

**/RA/**  
Eric Duncan, Chief  
Plant Support Branch  
Division of Reactor Safety

Docket Nos. 50-454; 50-455  
License Nos. NPF-37; NPF-66

Nonpublic Enclosure: Inspection Report 05000454/2009403;  
05000455/2009403(DRS)  
w/Attachment: Supplemental Information

**DISTRIBUTION:**  
See next page

DOCUMENT NAME: BYR 2009 403 DRS OUO - COVER LETTER.DOC  
 Publicly Available       Non-Publicly Available       Sensitive       Non-Sensitive  
To receive a copy of this document, indicate in the concurrence box "C" = Copy without attach/encl "E" = Copy with attach/encl "N" = No copy

OFFICE	RIII	RIII	RIII
NAME	JKutlesa:co	DFunk	EDuncan
DATE	12/10/09	12/10/09	12/10/09

**OFFICIAL RECORD COPY**

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

Letter to Charles G. Pardee from Eric Duncan dated December 10, 2009.

SUBJECT: BYRON STATION, UNITS 1 AND 2  
NRC SECURITY BASELINE INSPECTION REPORT  
05000454/2009403(DRS); 05000455/2009403(DRS)

cc w/encl: S. Coker, NSIR/DSO/DDSO/ST  
L. Askren, Byron Station Security Manager  
J. Klinger, State Liaison Officer,  
Illinois Emergency Management Agency

cc w/encl: Distribution via ListServ

DISTRIBUTION w/o encl:

Susan Bagley  
RidsNrrDorLpl3-2 Resource  
RidsNrrPMByron Resource  
RidsNrrDirslrib Resource  
Cynthia Pederson  
Steven Orth  
Jared Heck  
Allan Barker  
Carole Ariano  
Linda Linn  
DRPIII  
DRSIII  
Patricia Buckley  
Tammy Tomczak  
ROPreports Resource

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