

~~OFFICIAL USE ONLY - SECURITY RELATED INFORMATION~~

December 14, 2007

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

SUBJECT: BYRON STATION, UNITS 1 AND 2
NRC SECURITY BASELINE INSPECTION REPORT 05000454/2007405;
05000455/2007405

Dear Mr. Pardee:

On November 2, 2007, the U. S. Nuclear Regulatory Commission (NRC) completed a security baseline inspection at your Byron Station, Units 1 and 2. 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 November 2, 2007, with Mr. D. Hoots 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 inspector reviewed selected procedures and records, observed activities, and interviewed personnel.

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

EXEMPT FROM PUBLIC DISCLOSURE

May be exempt from public release under the Freedom of Information Act (5 U.S.C. 552)

Exemption number: 5
Nuclear Regulatory Commission review required before public release.

Gregory Hansen, RIII/DRS/PSB
Name and organization of person making determination.

Date of determination: 11/26/2007

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C. Pardee

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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's enclosure will not be available for public inspection.

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

Enclosure: Inspection Report 05000454/2007405(DRS);
05000455/2007405(DRS)
w/Attachment: Supplemental Information

cc w/encl: D. Riffle (NSIR/DSO/DDSO)
State Liaison Officer, State of Illinois
L. Asken, Byron Site Security Manager

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Letter to Charles G. Pardee from Eric Duncan dated December 14, 2007.

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NRC SECURITY BASELINE INSPECTION REPORT 05000454/2007405;
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cc w/o encl: Site Vice President - Byron Station
Plant Manager - Byron Station
Regulatory Assurance Manager - Byron Station
Chief Operating Officer
Senior Vice President – Midwest Operations
Senior Vice President - Operations Support
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B. Quigley, Byron Station

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Director Licensing and Regulatory Affairs
Manager Licensing – Braidwood, Byron, and LaSalle
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