August 22, 2008

Mr. Charles G. Pardee
Chief Nuclear Officer 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 05000454/2008402(DRS); 05000455/2008402(DRS)

Dear Mr. Pardee:

On July 24, 2008, the U. S. Nuclear Regulatory Commission (NRC) completed a security baseline inspection at your Byron Station, Units 1 and 2, and the Exelon Nuclear Corporate Office. 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 July 24, 2008, with Mr. B. 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 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 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.

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

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 05000454/2008402(DRS);
05000455/2008402(DRS)
w/Attachment: Supplemental Information

cc w/encl: D. Riffle, NSIR/DSO/DDSO
J. Klinger, State Liaison Officer,
Illinois Emergency Management Agency
B. Askren, Byron Site Security Manager

cc w/o encl: Site Vice President - Byron Station
Plant Manager - Byron Station
Regulatory Assurance Manager - Byron Station
Chief Operating Officer and Senior Vice President
Senior Vice President - Midwest Operations
Senior Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Director - Licensing and Regulatory Affairs
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Associate General Counsel
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
J. Klinger, State Liaison Officer,
Illinois Emergency Management Agency
P. Schmidt, State Liaison Officer, State of Wisconsin
Chairman, Illinois Commerce Commission
B. Quigley, Byron Station

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Letter to Charles G. Pardee from Eric Duncan dated August 22, 2008.

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NRC SECURITY BASELINE INSPECTION REPORT
05000454/2008402(DRS); 05000455/2008402(DRS)

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