

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

August 8, 2007

Mr. Christopher M. Crane  
President and Chief Nuclear Officer  
Exelon Nuclear  
Exelon Generation Company, LLC  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: BYRON STATION, UNITS 1 AND 2  
NRC SECURITY BASELINE INSPECTION REPORT 05000454/2007404;  
05000455/2007404

Dear Mr. Crane:

On July 11, 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 July 11, 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: 07/27/2007

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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 by D. Funk acting for/***

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 05000454/2007404(DRS);  
05000455/2007404(DRS)  
w/Attachment: Supplemental Information

cc w/encl: D. Riffle (NSIR/DSO/DDSO)  
M. Layton, NSIR/DSP/MTWSB  
State Liaison Officer, State of Illinois  
State Liaison Officer, State of Wisconsin

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M. Layton, NSIR/DSP/MTWSB  
State Liaison Officer, State of Illinois  
State Liaison Officer, State of Wisconsin

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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  
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Vice President - Operations Support  
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B. Quigley, Byron Station

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Director Licensing  
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