

SAFEGUARDS INFORMATION

August 2, 2006

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

SUBJECT: BYRON NUCLEAR POWER STATION, UNITS 1 AND 2
NRC PHYSICAL SECURITY BASELINE INSPECTION REPORT
NO. 05000454/2006008; 05000455/2006008(DRS)

Dear Mr. Crane:

On June 22, 2006, the U.S. Nuclear Regulatory Commission (NRC) completed a baseline security inspection of your Byron Nuclear Power Station and Exelon Nuclear Corporate. The enclosed report documents the results of this inspection, which were discussed on June 22, 2006, with Mr. Hoot and other members of your staff.

This inspection examined activities conducted under your license as they relate to public health and safety, the common defense and security, and to compliance with the Commission's rules and regulations, orders, and with the conditions of your license. Within these areas, the inspection consisted of selected examination of procedures and representative records, observations of activities, and interviews with personnel.

No findings of significance were identified.

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.

K.Brooks, RIII/DRS/PSB

Name and organization of person making determination.

Date of determination: 07/24/06

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C. Crane

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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 (PARS) component of NRC's document system, ADAMS and is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (The Public Electronic Reading Room). However, because of the security-related information 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/

Kenneth Riemer, Chief
Plant Support Branch
Division of Reactor Safety

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

Enclosure: Inspection Report 05000454/2006008(DRS);
05000455/2006008(DRS)
w/Attachment: Supplemental Information

cc w/encl: B. Westriech (NSIR/DNS)
NSIR/DNS/RSS/Licensing Assistant
D. Combs, Byron Site Security Manager

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OFFICE	RIII		RIII		RIII			
NAME	KBrooks:jb		RSkokowski		KRiemer			
DATE	08/01/06		8/3/06		8/2/06			

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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 - Nuclear Services
Vice President - Mid-West Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing
Manager Licensing - Braidwood and Byron
Senior Counsel, Nuclear
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
State Liaison Officer, State of Illinois
State Liaison Officer, State of Wisconsin
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