



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

November 20, 2018

Mr. Bryan C. Hanson  
Senior VP, Exelon Generation Company, LLC  
President and CNO, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: BYRON STATION, UNITS 1 AND 2—NRC SECURITY BASELINE INSPECTION  
REPORT 05000454/2018412; 05000455/2018412

Dear Mr. Hanson:

On October 26, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed a security inspection at your Byron Station, Units 1 and 2, and the NRC inspector discussed the results of this inspection with Mr. Patrick Boyle and other members of your staff. The results of the inspection are documented in the enclosed report.

The NRC inspector did not identify any finding or violation of more-than-minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

If you choose to provide a response that contains Security-Related Information, please mark your entire response "Security-Related Information—Withhold from public disclosure under 10 CFR 2.390" in accordance with 10 CFR 2.390(d)(1) and follow the instructions for withholding in 10 CFR 2.390(b)(1). The NRC is waiving the affidavit requirements for your response in accordance with 10 CFR 2.390(b)(1)(ii).

B. Hanson

-2-

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

Sincerely,

*/RA/*

Steven K. Orth, Chief  
Plant Support Branch  
Division of Reactor Safety

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

Enclosure:  
IR 05000454/2018412; 05000455/2018412

cc: Distribution via LISTSERV®  
C. Catencamp, Byron Station Security  
Manager  
A. Khayyat, State Liaison Officer,  
Illinois Emergency Management  
Agency

Letter to Bryan C. Hanson from Steven K. Orth dated November 20, 2018.

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Numbers: 50-454; 50-455

License Numbers: NPF-37; NPF-66

Report Number: 05000454/2018412; 05000455/2018412

Enterprise Identifier: I-2018-412-0012

Licensee: Exelon Generation Company, LLC

Facility: Byron Station, Units 1 and 2

Location: Byron, IL

Dates: October 22, 2018, through October 26, 2018

Inspector: K. Anderson, Physical Security Inspector

Approved by: S. Orth, Chief  
Plant Support Branch  
Division of Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission continued monitoring licensee's performance by conducting a Security Baseline Inspection at Byron Station, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the U.S. Nuclear Regulatory Commission's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### **List of Findings and Violations**

No findings or violations were identified.

### **Additional Tracking Items**

None

## **INSPECTION SCOPES**

Inspections were conducted using the appropriate portions of the inspection procedures in effect at the beginning of the inspection unless otherwise noted. Samples were declared complete when the inspection procedure requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspector reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## **SAFEGUARDS**

### 71130.04—Equipment Performance, Testing, and Maintenance (1 Sample)

The inspector evaluated the Security Testing and Maintenance Program. The following elements were evaluated:

- Tier I: All
- Tier II: (02.09a, b; 02.10a; 02.11a, b, d, e; 02.12.a)
- Tier III: (02.14; 02.15a, b, c)

## **INSPECTION RESULTS**

No findings or violations were identified.

## **EXIT MEETINGS AND DEBRIEFS**

The inspector confirmed that proprietary information was controlled to protect from public disclosure.

- On October 26, 2018, the inspector presented the baseline security inspection results to Mr. Patrick Boyle, and other members of the licensee staff.

## **DOCUMENTS REVIEWED**

### 71130.04 – Equipment Performance, Testing, and Maintenance

- Byron Station Physical Security Plan (PSP); Revision 16
- SY-AA-101-122; Testing Security Equipment; Revision 22
- SY-AA-101-122-1001; Performance of Security System Tests; Revision 13
- SY-BY-101-122-1001; Performance of Security System Tests; Revision 23
- WC-AA-106; Work Screening and Processing; Revision 18
- BAP-1100-3; Plant Barrier Impairment (PBI) Program; Revision 24
- BAP-1100-3A3; Pre-evaluated Plant Barrier Matrix; Revision 41
- SY-AA-101-102; Compensating for Security System Failures (SGI)
- SY-BY-101-102-1001; Site Specific Compensatory Measures for Security System Failures (SGI)
- SY-AA-101-103; PA/VA Barrier Walk-down Checklist; Revision 12
- SY-BY-101-103-1001; Periodic Site-Specific Security Barrier Verification; Revision 4

- SY-AA-101-112; Exelon Security Search Process; Revision 36
- SY-BY-101-115; Operation of Active Vehicle Barriers; Revision 15
- SY-AA-101-116; Conducting Patrols (SUNSI); Revision 16
- SY-BY-101-116-1001; Owner-Controlled Area Patrol; Revision 6
- SY-BY-101-116-1002; Protected Area/Vital Area Patrol; Revision 10
- SY-AA-101-117; Processing and Escorting of Personnel and Vehicles; Revision 29
- SY-AA-101-122-1001-F-06; Site Specific Testing, Testing Monthly Worksheet, Vehicle Barrier System (VBS) Testing; Revision 3; 10/15/2018
- SY-AA-101-124; Operation of the Security Control Center; Revision 14
- SY-AA-1015; Firearms Maintenance, Testing and Accountability; Revision 17
- SY-AA-150-1009; Firearms Practice Range Management; Revision 0
- SY-AA-1015-F-01; Record of Semi-annual Functionality and Accuracy Tests, Firearms Maintenance Log; Revision 3
- SY-AA-1015-F-18; Range Firearm Inspection, Cleaning and Maintenance; Revision 2
- SY-AA-101-155; Security Events and NRC Performance Indicators; Revision 9
- SY-AA-103-514; Site Authorization For Unescorted Access; Revision 19
- SY-AA-500-127; Safety/Security Interface; Revision 6
- Security Multiplexer Checks for Tamper; Annual Check; 09/22/2018
- Security Event Reports; March 5, 2018, through October 21, 2018
- Issue Reports; March 5, 2018, through October 21, 2018
- Byron Security Self-Assessment Report 04094474-04; 07/20/2018
- CAS/SAS Alarm Change Concur Report; 09/02/2018
- Security Diesel Generator Test and Surveillance Reports; 08/10/2018