



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

January 4, 2019

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

SUBJECT: QUAD CITIES NUCLEAR POWER STATION, UNITS 1 AND 2—NRC  
EMERGENCY PREPAREDNESS INSPECTION REPORT 05000254/2018503;  
05000265/2018503

Dear Mr. Hanson:

On December 6, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an Emergency Preparedness inspection at your Quad Cities Nuclear Power Station, Units 1 and 2. The NRC inspectors discussed the results of this inspection with Mr. Ken Ohr, Site Vice President, and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC Inspectors 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*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

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

Sincerely,

**/RA/**

Robert J. Orlikowski, Chief  
Operations Branch  
Division of Reactor Safety

Docket Nos. 50–254; 50–265  
License Nos. DPR–29; DPR–30

Enclosure:  
IR 05000254/2018503; 05000265/2018503

cc: Distribution via ListServ®

Letter to Bryan C. Hanson from Robert J. Orlikowski dated January 4, 2019.

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-254; 50-265

License Nos: DPR-29; DPR-30

Report No: 05000254/2018503; 05000265/2018503

Enterprise Identifier: I-2018-503-0005

Licensee: Exelon Generation Company, LLC

Facility: Quad Cities Nuclear Power Station, Units 1 and 2

Location: Cordova, IL

Dates: November 2, 2018;  
December 3, 2018, through December 6, 2018

Inspectors: M. Garza, Emergency Preparedness Inspector  
G. Hansen, Senior Emergency Preparedness Inspector  
J. Cassidy, Senior Health Physicist  
T. Ospino, Reactor Engineer

Approved by: R. Orlikowski, Chief  
Operations Branch  
Division of Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission continued monitoring licensee's performance by conducting an Emergency Preparedness Inspection at Quad Cities Nuclear Power Plant, 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 (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>.

Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors 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.

## **REACTOR SAFETY**

### 71114.01—Exercise Evaluation (1 Sample)

The inspectors evaluated the December 4, 2018, Biennial Emergency Plan Exercise. The exercise scenario simulated an event in Rock Island County that initiated with a declaration of an Unusual Event in response to a malfunction of plant equipment. The scenario conditions simulated the escalation of the significance of the event, requiring the declaration and notification of an Alert, a Site Area Emergency, and then a General Emergency, as well as the development of Protective Action Recommendations that were communicated to the required state and local government agencies.

### 71114.08—Exercise Evaluation—Scenario Review (1 Sample)

The inspectors reviewed and evaluated the proposed scenario for the Biennial Emergency Plan Exercise on November 2, 2018.

## **OTHER ACTIVITIES—BASELINE**

### 71151—Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below. (3 Samples)

- (1) EP01: Drill/Exercise Performance – 1 Sample (January 1, 2017, through September 30, 2018);
- (2) EP02: Emergency Response Organization Drill Participation – 1 Sample (January 1, 2017, through September 30, 2018); and
- (3) EP03: Alert And Notification System Reliability – 1 Sample (January 1, 2017, through September 30, 2018).

## **INSPECTION RESULTS**

No findings or violations were identified.

## EXIT MEETINGS AND DEBRIEFS

The inspectors confirmed that proprietary information was controlled to protect from public disclosure. No proprietary information was documented in this report.

- On December 6, 2018, the inspectors presented the Emergency Preparedness inspection results to Mr. Ken Ohr, Site Vice President, and other members of the licensee staff.

## DOCUMENTS REVIEWED

### 71114.01—Exercise Evaluation

- EP-AA-1006; Radiological Emergency Plan Annex for Quad Cities Station; Revision 40
- EP-AA-1006, Addendum 3; Emergency Action Levels for Quad Cities Station; Revision 5
- Quad Cities PI Drill Reports; Fourth Quarter of 2016 through Third Quarter of 2018
- AR3983428; Pre-2018 NRC EP Exercise/Drill Evaluation Inspection; 05/23/2018
- AR03985879; QDC-EP-1Q17-Facilities and Equipment Issues; 02/15/2017
- AR03985900; QDC-EP-1Q17-OSC-Other Issues; 02/15/2017
- AR03985897; QDC-EP-1Q17-TSC-Other Issues; 02/15/2017
- AR04024220; QDC-EP-2Q17-Facilities and Equipment Issues; 05/23/2017
- AR04024245; QDC-EP-OSC-Facility Evaluation; 05/23/2017
- AR04024226; QDC-EP-2Q17-Procedure Quality Issues; 05/23/2017
- AR04024240; QDC-EP-2Q17-TSC-Facility Evaluation; 05/23/2017
- AR04082141; EP 4QTR PI Drill Facility and Equipment Issues; 11/08/2017
- AR04118892; EP 1QTR PI Drill Facility and Equipment Issues; 02/27/2018
- AR04118893; EP 1QTR PI Drill Procedure Quality Issues; 02/27/2018
- AR04118896; EP 1QTR PI Drill OSC Performance Issues; 02/27/2018
- AR04118894; EP 1QTR PI Drill TSC Performance Issues; 02/27/2018
- AR04152619; EP 2QTR PI Drill Facility and Equipment Issues; 06/07/2018
- AR04152622; EP 2QTR PI Drill ERO Performance Issues; 06/07/2018
- AR04152648; EP 2QTR PI Drill TSC Performance Issues; 06/07/2018
- AR04185126; EP 4QTR PI Drill ERO Performance Issues; 10/09/2018

### 71114.08—Exercise Evaluation—Scenario Review

- Quad Cities Nuclear Power Station 2018 Emergency Preparedness Biennial Exercise Scenario; 10/02/2018

### 71151—Performance Indicator Verification

- NRC Performance Indicator Data; Emergency Preparedness – Alert and Notification System Reliability; First Quarter of 2017 through Third Quarter of 2018
- NRC Performance Indicator Data; Emergency Preparedness – Drill/Exercise Performance; First Quarter of 2017 through Third Quarter of 2018
- NRC Performance Indicator Data; Emergency Preparedness – ERO Readiness; First Quarter of 2017 through Third Quarter of 2018