



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

REGION III  
2443 WARRENVILLE RD. SUITE 210  
LISLE, IL 60532-4352

March 2, 2016

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER STATIONS, UNITS 1 AND 2 (REPORT 05000254/2015006 AND 05000265/2015006)**

Dear Mr. Hanson:

On February 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Quad Cities Nuclear Power Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 2015. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Quad Cities Nuclear Power Station, Units 1 and 2, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Quad Cities Nuclear Power Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

The NRC inspection schedule includes a biennial inspection conducted in accordance with Inspection Procedure 71152, "Problem Identification and Resolution;" a triennial inspection conducted in accordance with Inspection Procedure 71111.17T, "Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications;" and an infrequently performed inspection related to the operation of the Independent Spent Fuel Storage Installation (ISFSI)

using IP 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants."

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for Quad Cities Nuclear Power Station, Units 1 and 2, and the information gathered will aid staff in development of the Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9731 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Karla Stoedter, Chief  
Branch 1  
Division of Reactor Projects

Docket Nos. 50-254, 50-265  
License Nos. DPR-29, DPR-30

Enclosure:  
Inspection Plan

cc: Distribution via LISTSERV®

using IP 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants."

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ADAMS Accession Number: ML16060A342

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<b>OFFICE</b>	RIII	RIII		
<b>NAME</b>	JWojewoda:bw	KStoedter		
<b>DATE</b>	02/25/16	02/25/16		

Letter to Bryan C. Hanson from Karla Stoedter dated March 2, 2016

SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER STATIONS, UNITS 1 AND 2 (REPORT 05000254/2015006 AND 05000265/2015006)

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**Quad Cities**  
**Inspection / Activity Plan**  
**03/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>ISI - INSERVICE INSPECTION ON UNIT 2</b>		<b>1</b>
2	03/14/2016	04/08/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>OL PREP - INIT PREP/MARCH 2016</b>		<b>4</b>
1	03/21/2016	03/25/2016	W90350	OL - INITIAL EXAM - 2016 MAR-APR - QUAD CITIES	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/28/2016	04/01/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/28/2016	04/01/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>OL EXAM - INIT EXAM/APRIL 2016</b>		<b>4</b>
1	04/18/2016	04/29/2016	W90350	OL - INITIAL EXAM - 2016 MAR-APR - QUAD CITIES	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/06/2016	06/10/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	06/06/2016	06/10/2016	IP 71124.04	Occupational Dose Assessment	
			<b>ENG BI - MODIFICATIONS / 50.59 INSPECTION</b>		<b>5</b>
1, 2	08/08/2016	08/26/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			<b>ISFSI - ISFSI OPERATION AT AN OPERATING REACTOR</b>		<b>2</b>
1, 2	08/06/2016	08/31/2016	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			<b>PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
1, 2	09/12/2016	09/30/2016	IP 71152B	Problem Identification and Resolution	
			<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>5</b>
1, 2	11/14/2016	11/18/2016	IP 7111401	Exercise Evaluation	
1, 2	11/14/2016	11/18/2016	IP 7111406	Drill Evaluation	
1, 2	11/14/2016	11/18/2016	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	11/14/2016	11/18/2016	IP 71151	Performance Indicator Verification	
			<b>BI EP - EP BASELINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
1, 2	03/06/2017	03/10/2017	IP 7111402	Alert and Notification System Testing	
1, 2	03/06/2017	03/10/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	03/06/2017	03/10/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	03/06/2017	03/10/2017	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>ISI - INSERVICE INSPECTION</b>		<b>1</b>
1	03/27/2017	04/12/2017	IP 7111108G	Inservice Inspection Activities - BWR	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

**Quad Cities**  
**Inspection / Activity Plan**  
**03/01/2016 - 12/31/2017**

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	Start	End			
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/05/2017	06/09/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>2</b>
1	09/18/2017	09/22/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	09/18/2017	09/22/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>OL-RQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
1, 2	10/23/2017	10/27/2017	IP 7111111B	Licensed Operator Requalification Program	
			<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
1, 2	11/13/2017	12/15/2017	IP 7111121	Component Design Bases Inspection	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	12/11/2017	12/15/2017	IP 71124.05	Radiation Monitoring Instrumentation	

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