



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2014

Mr. Michael J. Pacilio  
Senior Vice President, Exelon Generation Co., LLC  
President and Chief Nuclear Officer, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER  
STATION, UNITS 1 AND 2 (REPORT 05000254/2013001; 05000265/2013001)**

Dear Mr. Pacilio:

On February 12, 2014, the U.S. Nuclear Regulatory Commission (NRC) staff 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, 2013 through December 31, 2013. 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 that the performance at Quad Cities Nuclear Power Station, Units 1 and 2, during the most recent quarter, as well as the previous three quarters of the assessment period, 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 NRC also plans to conduct infrequently performed inspection activities related to the operation of the Independent Spent Fuel Storage Installation using Inspection Procedure 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and to follow-up an unresolved item from the License Renewal Phase 2 Inspection using Inspection Procedure 71003, "Post-Approval Site Inspection For License Renewal."

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. The CY 2013 end-of-cycle assessments were conducted using the IMC 0310 guidance in effect in CY 2013 (dated October 28, 2011). Cross-cutting aspects identified in 2013 using the 2013 terminology will be converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-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.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure, will be available electronically for public inspection in the NRC Public Document Room or from the 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).

Please contact me at 630-829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

***/RA by C. Phillips for/***

Christine Lipa, Chief  
Branch 1  
Division of Reactor Projects

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

Enclosure:  
Quad Cities Nuclear Power Station  
Inspection/Activity Plan

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Letter to Michael Pacilio from Christine Lipa dated March 4, 2014

SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER  
STATION, UNITS 1 AND 2 (REPORT 05000254/2013001; 05000265/2013001)

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**Quad Cities**  
**Inspection / Activity Plan**  
**03/01/2014 - 06/30/2015**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
<b>FOLLOWUP - LICENSE RENEWAL FOLLOW UP</b>					<b>1</b>
1, 2	02/01/2014	03/30/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
<b>STRIKE - CONTINUED IMPLEMENTATION OF STRIKE PLANS</b>					<b>1</b>
1, 2	03/01/2014	03/30/2014	IP 92711	Continued Implementation Of Strike Plans During An Extended Strike	
<b>OL PREP - INITIAL EXAM - 04/2014</b>					<b>3</b>
1	03/31/2014	04/04/2014	W90292	OL - INITIAL EXAM - 2014 MARCH/APRIL - QUAD	
<b>ISI INSP - ISI BASELINE &amp; SNUBBER TI</b>					<b>2</b>
1, 2	04/07/2014	04/26/2014	IP 2515/189	Inspection to Determine Compliance of Dynamic Restraint (Snubber) Program with 10 CFR 50.55a	
1	04/07/2014	04/26/2014	IP 7111108G	Inservice Inspection Activities - BWR	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					<b>1</b>
1, 2	04/14/2014	04/18/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/14/2014	04/18/2014	IP 71124.02	Occupational ALARA Planning and Controls	
<b>OL EXAM - INIT EXAM FOR QUAD CITIES - APRIL 2014</b>					<b>3</b>
1	04/28/2014	05/02/2014	W90292	OL - INITIAL EXAM - 2014 MARCH/APRIL - QUAD	
<b>BI EPX - EP EXERCISE INSPECTION/PI VERIFICATION</b>					<b>2</b>
1	08/25/2014	08/29/2014	IP 71151	Performance Indicator Verification	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					<b>1</b>
1	06/09/2014	06/13/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					<b>1</b>
1	08/04/2014	08/08/2014	IP 71124.05	Radiation Monitoring Instrumentation	
<b>PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>					<b>1</b>
1	09/08/2014	09/26/2014	IP 71152B	Problem Identification and Resolution	
<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>					<b>7</b>
1, 2	11/03/2014	12/05/2014	IP 7111121	Component Design Bases Inspection	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>					<b>1</b>
1	10/20/2014	10/24/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1	10/20/2014	10/24/2014	IP 71151-BI01	Reactor Coolant System Activity	
1	10/20/2014	10/24/2014	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	10/20/2014	10/24/2014	IP 71151-PR01	RETS/ODCM Radiological Effluent	
<b>ISFSI - ISFSI OPERATION AT AN OPERATING RX</b>					<b>2</b>
1, 2	11/01/2014	11/30/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
<b>BI ISI - ISI UNIT 1 INSPECTION</b>					<b>1</b>
1, 2	03/02/2015	03/20/2015	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.

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	Start	End			
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/16/2015	03/20/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/16/2015	03/20/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>
1,2	05/18/2015	05/22/2015	IP 7111107T	Heat Sink Performance	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/01/2015	06/05/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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