



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 5, 2012

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER  
STATION, UNITS 1 AND 2 (REPORTS 05000254/2011007 AND  
05000265/2011007)**

Dear Mr. Pacilio:

On February 15, 2012, the 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, 2011, through December 31, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Quad Cities, 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, 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 June 30, 2013. The inspections scheduled include: Inspection Procedure (IP) 60855.1, "Operation of an ISFSI at Operating Plants," IP 71003, "Post-Approval Site Inspection for License Renewal," IP 71111.05T, "Fire Protection (Triennial)," IP 71111.17, "Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications," IP 71114.01, "Exercise Evaluation," IP 71152, "Problem Identification and Resolution," and Temporary Instruction (TI) 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." 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

M. Pacilio

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will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be made 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 630-829-9703 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Mark A. Ring, Branch Chief  
Branch 1  
Division of Reactor Projects

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

Enclosure: Quad Cities Nuclear Power Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

M. Pacilio

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Letter to M. Pacilio from M. Ring dated March 5, 2012

SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER  
STATION, UNITS 1 AND 2 (REPORTS 05000254/2011007 AND  
05000265/2011007)

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**Quad Cities**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI ISI - INSERVICE INSPECTION - UNIT 2</b>		<b>1</b>
03/19/2012	03/31/2012	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/19/2012	03/23/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
03/19/2012	03/23/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>RENEWAL - LICENSE RENEWAL INSPECTION 71103 PHASE 1</b>		<b>3</b>
03/19/2012	04/02/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI FIRE - FIRE PROTECTION INSPECTION &amp; BAG TRIP</b>		<b>3</b>
07/09/2012	08/03/2012	IP 7111105T	Fire Protection [Triennial]	
		<b>OL PREP - QUAD CITIES INIT PREP 04/2012</b>		<b>3</b>
04/02/2012	04/06/2012	W90269	OL - INITIAL EXAM - 2012 MAR/APR - QUAD	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/23/2012	04/27/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
04/23/2012	04/27/2012	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>OL EXAM - QUAD CITIES INIT EXAM - 04/2012</b>		<b>3</b>
04/23/2012	05/04/2012	W90269	OL - INITIAL EXAM - 2012 MAR/APR - QUAD	
		<b>TI-182 - TI-2515/182 PHASE I - BURIED PIPING</b>		<b>1</b>
07/09/2012	07/13/2012	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
08/13/2012	08/31/2012	IP 71152B	Problem Identification and Resolution	
		<b>BI HS - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
09/17/2012	09/21/2012	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/24/2012	09/28/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
09/24/2012	09/28/2012	IP 71124.04	Occupational Dose Assessment	
09/24/2012	09/28/2012	IP 71151-BI01	Reactor Coolant System Activity	
09/24/2012	09/28/2012	IP 71151-OR01	Occupational Exposure Control Effectiveness	
09/24/2012	09/28/2012	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI OLRQ - REQUALIFICATION PROGRAM INSPECTION</b>		<b>1</b>
10/15/2012	10/19/2012	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/15/2012	10/19/2012	IP 71124.02	Occupational ALARA Planning and Controls	
10/15/2012	10/19/2012	IP 71124.05	Radiation Monitoring Instrumentation	

**Quad Cities**  
**Inspection / Activity Plan**  
**01/01/2012 - 06/30/2013**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>RENEWAL - LICENSE RENEWAL INSPECTION 71003 PHASE 2</b>		<b>7</b>
10/22/2012	11/09/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
12/03/2012	12/07/2012	IP 7111401	Exercise Evaluation	
12/03/2012	12/07/2012	IP 71151	Performance Indicator Verification	
		<b>BI MODS - TRIENNIAL PERM MODS/50.59</b>		<b>1</b>
04/29/2013	05/17/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/18/2013	03/22/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
03/18/2013	03/22/2013	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>INSP - OP EXP SS FY2007-03 CRANE AND HEAVY LIFT</b>		<b>1</b>
04/08/2013	04/26/2013	IP 7111120	Refueling and Other Outage Activities	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>2</b>
06/01/2013	08/31/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
06/10/2013	06/14/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	