



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2011

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 (REPORT 05000254/2011001 AND 05000265/2011001)**

Dear Mr. Pacilio:

On February 17, 2011, 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, 2010, through December 31, 2010. 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 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 June 30, 2012. The inspections scheduled include: Inspection Procedure (IP) 71003, "Post-Approval Site Inspection For License Renewal," IP 60855, "Operation of an Independent Spent Fuel Storage Installation (ISFSI) at Operating Plants," IP 71111.21, "Component Design Basis Inspection," and IP 71111.07, "Heat Sink Performance." 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 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.

M. Pacilio

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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 Website 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, Chief  
Branch 1  
Division of Reactor Projects

Docket Nos. 50-254; 50-265; 72-053  
License Nos. DPR-29; DPR-30

Enclosure: Quad Cities Nuclear Power Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

M. Pacilio

-2-

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Letter to M. Pacilio from M. Ring dated March 4, 2011

SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER  
STATION (REPORT 05000254/2011001 AND 05000265/2011001)

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**Quad Cities**  
**Inspection / Activity Plan**  
**03/01/2011 - 06/30/2012**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/18/2011	04/22/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
04/18/2011	04/22/2011	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>OL PREP - QUAD CITIES INIT PREP - 06/2011</b>		<b>3</b>
05/02/2011	05/06/2011	W90225	OL - INITIAL EXAM - MAY/JUN 2011 - QUAD	
		<b>BI ENG - INSERVICE INSPECTION - UNIT 1</b>		<b>1</b>
05/09/2011	06/09/2011	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RENEWAL - LICENSE RENEWAL 71003 - PHASE 1 - U1</b>		<b>2</b>
05/16/2011	06/04/2011	IP 71003	Post-Approval Site Inspection for License Renewal	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
05/23/2011	05/27/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
05/23/2011	05/27/2011	IP 71124.02	Occupational ALARA Planning and Controls	
05/23/2011	05/27/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>OL EXAM - QUAD CITIES INIT EXAM - 06/2011</b>		<b>3</b>
05/30/2011	06/10/2011	W90225	OL - INITIAL EXAM - MAY/JUN 2011 - QUAD	
		<b>ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT</b>		<b>2</b>
07/01/2011	09/30/2011	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>
09/12/2011	09/16/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
09/12/2011	09/16/2011	IP 71151-BI01	Reactor Coolant System Activity	
		<b>BI ENG - COMPONENT DESIGN BASES INSPECTION</b>		<b>7</b>
09/19/2011	10/21/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
09/19/2011	10/21/2011	IP 7111121	Component Design Bases Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/10/2011	10/14/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
10/10/2011	10/14/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI OL - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
10/24/2011	10/28/2011	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
11/28/2011	12/02/2011	IP 7111402	Alert and Notification System Testing	
11/28/2011	12/02/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
11/28/2011	12/02/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
11/28/2011	12/02/2011	IP 71151	Performance Indicator Verification	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
12/12/2011	12/16/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

**Quad Cities  
Inspection / Activity Plan  
03/01/2011 - 06/30/2012**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
01/09/2012	01/13/2012	IP 7111107T	Heat Sink Performance	
		<b>OL PREP - QUAD CITIES INIT PREP 03/2012</b>		<b>3</b>
03/05/2012	03/09/2012	W90269	OL - INITIAL EXAM - MAR/APR 2012 - QUAD	
		<b>BI ENG - INSERVICE INSPECTION - UNIT 2</b>		<b>1</b>
03/12/2012	03/29/2012	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>RENEWAL - LICENSE RENEWAL INSPECTION 71103 PHASE 1</b>		<b>2</b>
03/12/2012	03/30/2012	IP 71003	Post-Approval Site Inspection for License Renewal	
		<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	
03/19/2012	03/23/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
03/19/2012	03/23/2012	IP 71124.04	Occupational Dose Assessment	
		<b>OL EXAM - QUAD CITIES INIT EXAM - 03/2012</b>		<b>3</b>
03/26/2012	04/06/2012	W90269	OL - INITIAL EXAM - MAR/APR 2012 - 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	