



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2009

Mr. Charles G. Pardee  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer (CNO), Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
QUAD CITIES NUCLEAR POWER STATION**

Dear Mr. Pardee:

On August 20, 2009, the NRC staff completed its performance review of the Quad Cities Nuclear Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2008, through June 30, 2009. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only--Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter at the Quad Cities Nuclear Power Station was within the Licensee Response column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through December 31, 2010. The inspections scheduled include: independent spent fuel storage installation, ground water protection initiative, initial and requalification licensed operator examinations, biennial problem identification and resolution, emergency preparedness, and outage related inspections. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the End-of-Cycle review.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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).

C. Pardee

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As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (630) 829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

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

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

Enclosure: Quad Cities Station Inspection/Activity Plan

DISTRIBUTION:  
See next page

Letter to C. Pardee from M. Ring dated September 1, 2009

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
QUAD CITIES NUCLEAR POWER STATION

cc w/encl: Site Vice President - Quad Cities Nuclear Power Station  
Plant Manager - Quad Cities Nuclear Power Station  
Manager Regulatory Assurance -  
Quad Cities Nuclear Power Station  
Senior Vice President - Midwest Operations  
Senior Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director Licensing - Licensing and Regulatory Affairs  
Manager Licensing - Clinton, Dresden and Quad Cities  
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Iowa Department of Public Health  
Chairman, Illinois Commerce Commission  
Chief Radiological Emergency Preparedness Section,  
Dept. Of Homeland Security  
Chairman, Rock Island County Board  
Rock Island County Sheriff  
Coordinator, Rock Island Emergency Services and Disaster  
Chairman, Whiteside County Board  
Whiteside County Sheriff  
Coordinator, Whiteside County Emergency Services  
Chairman, Board of Supervisors  
Clinton County Sheriff  
Coordinator, Clinton County Emergency Management  
Scott County Administrator  
Scott County Sheriff  
Coordinator, Scott County Emergency Management  
Mayor of Albany  
Mayor of Rapids City  
President, Village of Port Byron  
President, Village of Cordova  
Mayor of Camanche  
Mayor of Clinton  
Clinton City Administrator  
Mayor of Low Moor  
Mayor of LeClaire  
LeClaire City Administrator  
Mayor of Princeton  
Mayor of McCausland  
G. Mortensen, INPO

C. Pardee

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QUAD CITIES NUCLEAR POWER STATION

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**Quad Cities**  
**Inspection / Activity Plan**  
**09/01/2009 - 12/31/2010**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>ISFSI - ISFSI - ROUTINE LOADING</b>		<b>1</b>
07/01/2009	09/30/2009	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>ISFSI - ISFSI - ONSITE MPC TESTING</b>		<b>3</b>
08/01/2009	09/30/2009	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/14/2009	09/18/2009	IP 7112202	Radioactive Material Processing and Transportation	
09/14/2009	09/18/2009	IP 71151-BI01	Reactor Coolant System Activity	
		<b>BI OL - LIC. OPERATOR REQUAL. PROGRAM EVALUATION</b>		<b>2</b>
09/28/2009	10/02/2009	IP 7111111B	Licensed Operator Requalification Program	
		<b>OL PREP - QUAD CITIES INITIAL PREP - 11/2009</b>		<b>3</b>
11/02/2009	11/06/2009	W90200	OL - INITIAL EXAM - NOV/DEC 2009 - QUAD	
		<b>OL EXAM - QUAD CITIES INIT EXAM - 11/2009</b>		<b>3</b>
11/30/2009	12/11/2009	W90200	OL - INITIAL EXAM - NOV/DEC 2009 - QUAD	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
12/14/2009	12/18/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
12/14/2009	12/18/2009	IP 7112101	Access Control to Radiologically Significant Areas	
12/14/2009	12/18/2009	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>
03/15/2010	04/02/2010	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/29/2010	04/02/2010	IP 7112102	ALARA Planning and Controls	
03/29/2010	04/02/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI ENG - ENGINEERING MODIFICATIONS / 50.59</b>		<b>3</b>
04/19/2010	05/07/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
06/01/2010	09/30/2010	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>
06/07/2010	06/11/2010	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
06/07/2010	06/11/2010	IP 71151-BI01	Reactor Coolant System Activity	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
07/26/2010	08/13/2010	IP 71152B	Identification and Resolution of Problems	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/13/2010	09/17/2010	IP 7112101	Access Control to Radiologically Significant Areas	
09/13/2010	09/17/2010	IP 7112102	ALARA Planning and Controls	

**Quad Cities  
Inspection / Activity Plan  
09/01/2009 - 12/31/2010**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
<b>BIENG - HEAD DROP ANALYSES</b>				
10/25/2010	11/12/2010	IP 7111120	Refueling and Other Outage Activities	1
<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>				
11/15/2010	11/19/2010	IP 7111401	Exercise Evaluation	3
11/15/2010	11/19/2010	IP 71151-EP01	Drill/Exercise Performance	
11/15/2010	11/19/2010	IP 71151-EP02	ERO Drill Participation	
11/15/2010	11/19/2010	IP 71151-EP03	Alert & Notification System	
<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>				
12/06/2010	12/10/2010	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems	1
12/06/2010	12/10/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	