



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2010

Mr. Michael Pacilio
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. Pacilio:

On August 5, 2010, 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, 2009, through June 30, 2010. 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, 2011. The inspections scheduled include: independent spent fuel storage installation, post approval license renewal, component design basis, initial and requalification licensed operator examinations, 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.

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 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).

If circumstances arise which 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 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 September 1, 2010

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

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**Quad Cities
Inspection / Activity Plan
09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT		2
09/01/2010	09/30/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
09/27/2010	10/01/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
09/27/2010	10/01/2010	IP 71124.04	Occupational Dose Assessment	
09/27/2010	10/01/2010	IP 71151-BI01	Reactor Coolant System Activity	
		BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		3
11/15/2010	11/19/2010	IP 7111401	Exercise Evaluation	
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	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
12/06/2010	12/10/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
12/06/2010	12/10/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
03/14/2011	03/18/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
03/14/2011	03/18/2011	IP 71124.05	Radiation Monitoring Instrumentation	
		RENEWAL - LICENSE RENEWAL 71003 - PHASE 1 - U1		2
05/09/2011	06/04/2011	IP 71003	Post-Approval Site Inspection for License Renewal	
		OL PREP - QUAD CITIES INIT PREP - 05/2011		3
05/02/2011	05/06/2011	W90225	OL - INITIAL EXAM - MAY/JUN 2011 - QUAD	
		BI ENG - INSERVICE INSPECTION - UNIT 1		1
05/09/2011	06/09/2011	IP 7111108G	Inservice Inspection Activities - BWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
05/16/2011	05/20/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
05/16/2011	05/20/2011	IP 71124.02	Occupational ALARA Planning and Controls	
05/16/2011	05/20/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
05/16/2011	05/20/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		OL EXAM - QUAD CITIES INIT EXAM - MAY-JUNE/2011		3
05/30/2011	06/10/2011	W90225	OL - INITIAL EXAM - MAY/JUN 2011 - QUAD	
		ISFSI - ISFSI INSPECTION - SCHEDULE DEPENDENT		2
07/01/2011	07/31/2011	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
08/15/2011	08/19/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

**Quad Cities
Inspection / Activity Plan
09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
08/15/2011	08/19/2011	IP 71151-BI01	Reactor Coolant System Activity	
		BI ENG - COMPONENT DESIGN BASES INSPECTION		7
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	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
10/03/2011	10/07/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/03/2011	10/07/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
10/03/2011	10/07/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		2
10/24/2011	10/28/2011	IP 7111402	Alert and Notification System Testing	
10/24/2011	10/28/2011	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
10/24/2011	10/28/2011	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
10/24/2011	10/28/2011	IP 71151-EP01	Drill/Exercise Performance	
10/24/2011	10/28/2011	IP 71151-EP02	ERO Drill Participation	
10/24/2011	10/28/2011	IP 71151-EP03	Alert & Notification System	
		BI OL - BIENNIAL REQUAL PROGRAM INSPECTION		2
10/24/2011	10/28/2011	IP 7111111B	Licensed Operator Requalification Program	