



**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 –  
CLINTON POWER STATION**

Dear Mr. Pacilio:

On August 5, 2010, the NRC staff completed its performance review of the Clinton 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 Clinton 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). However, during the assessment period, there were four Severity Level IV traditional enforcement violations in the traditional enforcement area of "impeding the regulatory process" as documented in inspection reports for your facility. Therefore, in addition to the regularly scheduled reactor oversight process (ROP) baseline inspections, we also plan to conduct Inspection Procedure 92723, "Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period," to follow up on the four Severity Level IV violations.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2011. The inspections scheduled include: initial and requalification licensed operator examinations, emergency preparedness, biennial problem identification and resolution, triennial fire protection and triennial heat sink. 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).

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 No. 50-461  
License No. NPF-62

Enclosure: Clinton 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 September 1, 2010

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
CLINTON POWER STATION

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

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/20/2010	09/24/2010	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>FY 2011 - CLINTON INITIAL PREP - 10/2010</b>		<b>2</b>
10/11/2010	10/15/2010	W90257	OL - INITIAL EXAM - JULY 2010/MARCH 2011 - CLINTON	
		<b>OL EXAM - CLINTON INITIAL EXAM - 11/2010</b>		<b>2</b>
11/01/2010	11/05/2010	W90257	OL - INITIAL EXAM - JULY 2010/MARCH 2011 - CLINTON	
		<b>STRIKE - STRIKE CONTINGENCY - OPS/MAINT/RP/CLERKS</b>		<b>2</b>
11/16/2010	12/15/2010	IP 92709	Licensee Strike Contingency Plans	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/31/2011	02/04/2011	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
01/31/2011	02/04/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
01/31/2011	02/04/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>
02/14/2011	03/18/2011	IP 7111105T	Fire Protection [Triennial]	
		<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
04/18/2011	05/06/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
04/18/2011	05/06/2011	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
05/09/2011	05/13/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
05/09/2011	05/13/2011	IP 71124.04	Occupational Dose Assessment	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
05/16/2011	06/03/2011	IP 71152B	Identification and Resolution of Problems	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/08/2011	08/12/2011	IP 71124.02	Occupational ALARA Planning and Controls	
08/08/2011	08/12/2011	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
08/08/2011	08/12/2011	IP 71151-BI01	Reactor Coolant System Activity	
08/08/2011	08/12/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
08/08/2011	08/12/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>OL EXAM - CLINTON INIT EXAM - 08/2011</b>		<b>3</b>
08/22/2011	09/02/2011	W90228	OL - INITIAL EXAM - AUG 2011 - CLIN	
		<b>71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>
10/31/2011	11/04/2011	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/14/2011	11/18/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	

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

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI EP</b>	<b>- EP EXERCISE INSPECTION / PI VERIFICATION</b>	<b>4</b>
11/28/2011	12/02/2011	IP 7111401	Exercise Evaluation	
11/28/2011	12/02/2011	IP 71151-EP01	Drill/Exercise Performance	
11/28/2011	12/02/2011	IP 71151-EP02	ERO Drill Participation	
11/28/2011	12/02/2011	IP 71151-EP03	Alert & Notification System	