



**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 –  
CLINTON POWER STATION**

Dear Mr. Pardee:

On August 20, 2009, 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, 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 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). 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: ground water protection initiative, initial licensee exam, emergency preparedness, licensed operator requalification, component design basis, 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

-2-

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 No. 50-461  
License No. NPF-62

Enclosure: Clinton Power 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 –  
CLINTON POWER STATION

cc w/encl: Site Vice President - Clinton Power Station  
Plant Manager - Clinton Power Station  
Manager Regulatory Assurance - Clinton Power Station  
Senior Vice President - Midwest Operations  
Senior Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director - Licensing and Regulatory Affairs  
Manager Licensing - Clinton, Dresden and Quad Cities  
Associate General Counsel  
Document Control Desk - Licensing  
Assistant Attorney General  
J. Klinger, State Liaison Officer  
Illinois Emergency Management Agency  
Chairman, Illinois Commerce Commission  
Clinton Police Department  
Mayor of Clinton  
Mayor of Weldon  
DeWitt County Board Chairman  
DeWitt County Sheriff  
EMA Coordinator, DeWitt County  
Mayor of Wapella  
McLean County Board Chairman  
McLean County Sheriff  
EMA Coordinator, McLean County  
Piatt County Board Chairman  
Piatt County Sheriff  
EMA Coordinator, Piatt County  
Macon County Board Chairman  
Macon County Sheriff  
EMA Coordinator, Macon County  
G. Mortensen, INPO

C. Pardee

-2-

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CLINTON POWER STATION

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

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/31/2009	09/04/2009	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
08/31/2009	09/04/2009	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Program	
		<b>FY 09 - CLINTON INIT EXAM 08/09</b>		<b>3</b>
08/24/2009	09/04/2009	W90205	OL - INITIAL EXAM - AUGUST 2009 - CLIN	
		<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>3</b>
11/16/2009	11/20/2009	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review	
11/16/2009	11/20/2009	IP 7111401	Exercise Evaluation	
11/16/2009	11/20/2009	IP 71151-EP01	Drill/Exercise Performance	
11/16/2009	11/20/2009	IP 71151-EP02	ERO Drill Participation	
11/16/2009	11/20/2009	IP 71151-EP03	Alert & Notification System	
		<b>BI OL - LIC. OPERATOR REQUAL. PROGRAM EVALUATION</b>		<b>2</b>
11/16/2009	11/20/2009	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI ENG - ENGINEERING INSERVICE INSPECTION</b>		<b>1</b>
01/18/2010	01/29/2010	IP 7111108G	Inservice Inspection Activities - BWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/18/2010	01/22/2010	IP 7112101	Access Control to Radiologically Significant Areas	
01/18/2010	01/22/2010	IP 7112102	ALARA Planning and Controls	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
03/22/2010	03/26/2010	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment	
03/22/2010	03/26/2010	IP 71151-BI01	Reactor Coolant System Activity	
03/22/2010	03/26/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
03/22/2010	03/26/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
04/05/2010	04/09/2010	IP 7112101	Access Control to Radiologically Significant Areas	
04/05/2010	04/09/2010	IP 7112102	ALARA Planning and Controls	
		<b>BI EP - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>2</b>
04/12/2010	04/16/2010	IP 7111402	Alert and Notification System Testing	
04/12/2010	04/16/2010	IP 7111403	Emergency Response Organization Augmentation Testing	
04/12/2010	04/16/2010	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
04/12/2010	04/16/2010	IP 71151-EP01	Drill/Exercise Performance	
04/12/2010	04/16/2010	IP 71151-EP02	ERO Drill Participation	
04/12/2010	04/16/2010	IP 71151-EP03	Alert & Notification System	
		<b>BI ENG - COMPONENT DESIGN BASIS INSPECTION</b>		<b>5</b>
05/24/2010	06/25/2010	IP 7111121	Component Design Bases Inspection	