



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2013

Mr. Michael Pacilio  
Senior Vice President, Exelon Generation Company, LLC  
President and Chief Nuclear Officer, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CLINTON POWER STATION  
(REPORT 05000461/2012001)

Dear Mr. Pacilio:

On February 13, 2013, the Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Clinton Power Station, Unit 1. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2012, through December 31, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Clinton Power Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Clinton Power Station 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 December 31, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve 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. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

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 available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (630) 829-9753 with any questions you may have regarding this letter.

Sincerely,

**/RA/**

Robert J. Orlikowski, Acting 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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**Clinton**  
**Inspection / Activity Plan**  
**03/01/2013 - 12/31/2014**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
1	03/25/2013	03/29/2013	IP 7111401	Exercise Evaluation	
1	03/25/2013	03/29/2013	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/11/2013	03/15/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/11/2013	03/15/2013	IP 71124.04	Occupational Dose Assessment	
			<b>BI CDBI - COMPONENT DESIGN BASIS INSPECTION</b>		<b>6</b>
1	05/20/2013	06/21/2013	IP 7111121	Component Design Bases Inspection	
			<b>BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
1	06/03/2013	06/07/2013	IP 7111111B	Licensed Operator Requalification Program	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	06/10/2013	06/14/2013	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	07/08/2013	07/12/2013	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>5</b>
1	08/12/2013	08/30/2013	IP 71152B	Problem Identification and Resolution	
			<b>OL PREP - CLINTON INIT PREP - 07/2013</b>		<b>3</b>
1	07/29/2013	08/02/2013	W90283	OL - INITIAL EXAM - 2013 JUL-AUG - CLINTON	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	08/05/2013	08/09/2013	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>OL EXAM - CLINTON INIT EXAM - 08/2013</b>		<b>3</b>
1	08/19/2013	08/30/2013	W90283	OL - INITIAL EXAM - 2013 JUL-AUG - CLINTON	
			<b>ISFSI - ISFISI INSPECITON</b>		<b>1</b>
1	09/01/2013	12/30/2013	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	09/16/2013	09/20/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	09/16/2013	09/20/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1	09/16/2013	09/20/2013	IP 71151-BI01	Reactor Coolant System Activity	
1	09/16/2013	09/20/2013	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	09/16/2013	09/20/2013	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/07/2013	10/11/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/07/2013	10/11/2013	IP 71124.02	Occupational ALARA Planning and Controls	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

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**Inspection / Activity Plan**  
**03/01/2013 - 12/31/2014**

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			<b>ISFSI - ISFISI INSPECITON</b>		<b>1</b>
1	11/01/2013	12/31/2013	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>BI ISI - ISI BASELINE INSPECTION</b>		<b>1</b>
1	12/02/2013	12/20/2013	IP 7111108G	Inservice Inspection Activities - BWR	
			<b>ISFSI - ISFISI INSPECITON</b>		<b>1</b>
1	01/01/2014	03/31/2014	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			<b>BI FIRE - FIRE PROTECTION INSPECTION AND BAG TRIP</b>		<b>5</b>
1	01/13/2014	02/14/2014	IP 7111105T	Fire Protection [Triennial]	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	03/03/2014	03/07/2014	IP 71124.02	Occupational ALARA Planning and Controls	
			<b>BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION</b>		<b>1</b>
1	03/24/2014	03/28/2014	IP 7111402	Alert and Notification System Testing	
1	03/24/2014	03/28/2014	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	03/24/2014	03/28/2014	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	03/24/2014	03/28/2014	IP 71151	Performance Indicator Verification	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	04/14/2014	04/18/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	07/14/2014	07/18/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/14/2014	07/18/2014	IP 71151	Performance Indicator Verification	
			<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>
1	09/08/2014	09/12/2014	IP 7111107T	Heat Sink Performance	
			<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
1	10/06/2014	10/10/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	

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