



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2011

Mr. Michael J. 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 LETTER FOR CLINTON POWER STATION, UNIT 1;
05000461/2011-006**

Dear Mr. Pacilio:

On August 10, 2011, the NRC completed its mid-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 July 1, 2010, through June 30, 2011. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Clinton Power Station, Unit 1, 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. Some inspections planned include Inspection Procedure 71111.17, "Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications." In addition to the ROP baseline, the NRC also plans to oversee activities during the next refueling outage associated with the licensee's pilot program involving the generation of Cobalt-60 in the reactor for commercial uses.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-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.

In the days following the Fukushima Daiichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Daiichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Daiichi Accident." The NRC is currently reviewing the Task Force's recommendations to determine what additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be 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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at (630) 829-9703 with any questions you have regarding this letter.

Sincerely,

/RA/

Mark 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 ListServe

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Letter to M. Pacilio from M. Ring dated September 1, 2011

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05000461/2011-006

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Clinton
Inspection / Activity Plan
09/01/2011 - 12/31/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
10/17/2011	10/21/2011	IP 7111111B	Licensed Operator Requalification Program	
		BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION		4
10/31/2011	11/04/2011	IP 7111401	Exercise Evaluation	
10/31/2011	11/04/2011	IP 71151	Performance Indicator Verification	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
11/14/2011	11/18/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
		BI ISI - INSERVICE INSPECTION		1
11/29/2011	12/16/2011	IP 7111108G	Inservice Inspection Activities - BWR	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
12/05/2011	12/09/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
12/05/2011	12/09/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
02/27/2012	03/02/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
05/14/2012	05/18/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		BI MODS - TRIENNIAL PERM MODS/50.59		3
06/25/2012	07/13/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
08/20/2012	08/24/2012	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
08/20/2012	08/24/2012	IP 71151	Performance Indicator Verification	
		BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION		1
09/17/2012	09/21/2012	IP 7111402	Alert and Notification System Testing	
09/17/2012	09/21/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
09/17/2012	09/21/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
09/17/2012	09/21/2012	IP 71151	Performance Indicator Verification	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
11/26/2012	11/30/2012	IP 71124.05	Radiation Monitoring Instrumentation	