



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 4, 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: ANNUAL ASSESSMENT LETTER FOR CLINTON POWER STATION
(REPORT 05000461/2011001)**

Dear Mr. Pacilio:

On February 17, 2011, the 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, 2010, through December 31, 2010. 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 that overall, Clinton Power Station, Unit 1, operated in a manner that preserved public health and safety and met all cornerstone objectives. 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). However, as noted in the 2010 Clinton Mid-Cycle Performance Review letter, we plan on performing 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 four Severity Level IV violations associated with impeding the regulatory process. This inspection is scheduled for April 2011. Otherwise, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. The inspections scheduled include: Inspection Procedure (IP) 71152, "Problem Identification and Resolution," IP 71114.01, "Exercise Evaluation," IP 71111.07, "Heat Sink Performance," and Temporary Instruction (TI) 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems." Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed

M. Pacilio

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during the last nine 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.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter 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).

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

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 March 4, 2011

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(REPORT 05000461/2011001)

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Clinton
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI ENG - TRIENNIAL FIRE PROTECTION INSPECTION		3
02/14/2011	03/18/2011	IP 7111105T	Fire Protection [Triennial]	
		FOLLOWUP - FOLLOWUP FOR 3 OR MORE SL IV VIOS		1
04/11/2011	04/15/2011	IP 92723	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
		BI ENG - TRIENNIAL HEAT SINK INSPECTION		2
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	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
		BI PI&R - BIENNIAL PI&R INSPECTION		5
05/16/2011	06/03/2011	IP 71152B	Identification and Resolution of Problems	
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
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	
		OL EXAM - CLINTON INIT EXAM - 08/2011		3
08/22/2011	09/02/2011	W90228	OL - INITIAL EXAM - AUG 2011 - CLIN	
		BI OL - BIENNIAL REQUAL PROGRAM INSPECTION		2
10/17/2011	10/21/2011	IP 7111111B	Licensed Operator Requalification Program	
		BI EP - 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 ENG - INSERVICE INSPECTION		1
11/28/2011	12/24/2011	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	

Clinton
Inspection / Activity Plan
03/01/2011 - 06/30/2012

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
05/14/2012	05/18/2012	IP 71124.02	Occupational ALARA Planning and Controls	
		BI ENG - TRIENNIAL PERM MODS/50.59		3
06/25/2012	07/13/2012	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	