



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 3, 2010

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: ANNUAL ASSESSMENT LETTER - CLINTON POWER STATION, UNIT 1
(05000461/2010001)**

Dear Mr. Pardee:

On February 11, 2010, the NRC staff completed its performance review of Clinton Power Station, Unit 1. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 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.

Overall, Clinton Power Station Unit 1 operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the first three quarters of the assessment cycle, 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 June 30, 2011. 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. Additional inspections scheduled include: component design basis, triennial fire protection, and biennial problem identification and resolution. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the mid-cycle review.

C. Pardee

-2-

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 Agencywide Documents Access and Management 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 this 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
Reactor Projects Branch 1
Division of Reactor Projects

Docket No. 50-461
License No. NPF-62

Enclosure: Clinton Inspection/Activity Plan

cc w/encl: Distribution via ListServe

C. Pardee

-2-

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Letter to C. Pardee from M. Ring dated March 3, 2010

SUBJECT: ANNUAL ASSESSMENT LETTER - CLINTON POWER STATION, UNIT 1
(05000461/2010001)

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Clinton
Inspection / Activity Plan
03/01/2010 - 06/30/2011

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		BI EP	- EP ROUTINE INSPECTION / PI VERIFICATION	2
04/12/2010	04/16/2010	IP 7111402	Radiological Environmental Monitoring Program	
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	
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
05/03/2010	05/07/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
05/03/2010	05/07/2010	IP 71124.02	Occupational ALARA Planning and Controls	
05/03/2010	05/07/2010	IP 71151-BI01	Reactor Coolant System Activity	
05/03/2010	05/07/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
05/03/2010	05/07/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		BI ENG	- COMPONENT DESIGN BASIS INSPECTION	5
05/24/2010	06/25/2010	IP 7111121	Component Design Bases Inspection	
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
06/07/2010	06/11/2010	IP 2515/173	Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative	
06/07/2010	06/11/2010	IP 71124.07	Public Radiation Safety	
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
09/20/2010	09/24/2010	IP 71124.05	Radiation Monitoring Instrumentation	
		FY 2011	- CLINTON INITIAL PREP - 10/2010	2
10/18/2010	10/22/2018	W90257	OL - INITIAL EXAM - JULY 2010/MARCH 2011 - CLINTON	
		OL EXAM	- CLINTON INITIAL EXAM - 11/2010	2
11/01/2010	11/05/2010	W90257	OL - INITIAL EXAM - JULY 2010/MARCH 2011 - CLINTON	
		STRIKE	- STRIKE CONTINGENCY - OPS/MAINT/RP/CLERKS	2
11/16/2010	12/15/2010	IP 92709	Licensee Strike Contingency Plans	
		BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1
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	
		BI ENG	- TRIENNIAL FIRE PROTECTION INSPECTION	3
02/14/2011	03/18/2011	IP 7111105T	Fire Protection [Triennial]	
		BI ENG	- TRIENNIAL HEAT SINK INSPECTION	1
04/18/2011	04/22/2011	IP 7111107T	Heat Sink Performance	

Clinton
Inspection / Activity Plan
03/01/2010 - 06/30/2011

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		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		3
05/16/2011	06/03/2011	IP 71152B	Identification and Resolution of Problems	