

March 2, 2007

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER - CLINTON POWER STATION
(REPORT 05000461/2007001)

Dear Mr. Crane:

On February 14, 2007, the Nuclear Regulatory Commission (NRC) staff completed its performance review of Clinton Power Station. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2006. 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 physical protection information. A separate letter designated as "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" and marked as "Official Use Only - Security-Related Information" will include the physical protection review and resultant inspection plan.

Overall, the Clinton Power Station operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response Column of the NRC's Action Matrix based on one White finding. The White finding was issued as an apparent violation in November 2006 for failure to adequately address vortexing in the reactor core isolation cooling storage tank and its effect on operability of the high pressure core spray and reactor core isolation cooling systems. The associated Notice of Violation was issued on February 7, 2007. In addition to conducting the reactor oversight process baseline inspections at your facility, a supplemental inspection using Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area," will be scheduled following our receipt of your response to the Notice of Violation.

The enclosed inspection plan details the inspections, less those related to physical protection scheduled through June 30, 2008. 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 mid-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) accessible from the NRC Web site 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 Mark A. Ring at (630) 829-9703 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Mark A. Satorius, Director
Division of Reactor Projects

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

Enclosure: Clinton Power Station Inspection/Activity Plan

DISTRIBUTION
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Division of Reactor Projects

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DATE	02/26/07		03/02/07				

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cc w/encl: Site Vice President - Clinton Power Station
Plant Manager - Clinton Power Station
Regulatory Assurance Manager - Clinton Power Station
Chief Operating Officer
Senior Vice President - Nuclear Services
Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Manager Licensing - Clinton Power Station
Senior Counsel, Nuclear, Mid-West Regional Operating Group
Document Control Desk - Licensing
Assistant Attorney General
Illinois Emergency Management Agency
State Liaison Officer, State of Illinois
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
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Clinton
Inspection / Activity Plan
03/01/2007 - 06/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PI&R	- PROBLEM IDENTIFICATION AND RESOLUTION	7			
1	IP 71152B	Identification and Resolution of Problems		03/05/2007	03/23/2007	Baseline Inspections
	7112103	- RADIOLOGICAL INSTRUMENTATION	2			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/16/2007	04/20/2007	Baseline Inspections
	FY 2007	- CLINTON INIT PREP 07/2007	2			
1	W90158	OL - INITIAL EXAM - CLINTON - JUL/AUG 2007		07/23/2007	07/27/2007	Not Applicable
	BI	- ACCESS CONTROL NON-OUTAGE	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/06/2007	08/10/2007	Baseline Inspections
1	IP 71151-BI01	Reactor Coolant System Activity		08/06/2007	08/10/2007	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		08/06/2007	08/10/2007	Baseline Inspections
	EP BI	- BASELINE EP EXERCISE INSP	1			
1	IP 7111401	Exercise Evaluation		09/10/2007	09/14/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		09/10/2007	09/14/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		09/10/2007	09/14/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		09/10/2007	09/14/2007	Baseline Inspections
	FY 2007	- INITIAL LICENSE EXAM CLINTON 08/13-08/24	6			
1	W90158	OL - INITIAL EXAM - CLINTON - JUL/AUG 2007		08/13/2007	08/24/2007	Not Applicable
	7112202	- TRANSPORTATION & RADWASTE	4			
1	IP 7112202	Radioactive Material Processing and Transportation		09/17/2007	09/21/2007	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		09/17/2007	09/21/2007	Baseline Inspections
	CDBI	- COMPONENT DESIGN BASES INSPECTION	6			
1	IP 7111121	Component Design Bases Inspection		10/15/2007	11/16/2007	Baseline Inspections
	7112203	- REMP & RAD MTL CONTROL	1			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		11/05/2007	11/09/2007	Baseline Inspections
	7111111B	- LIC OPERATOR REQUAL PROGRAM EVALUATION	2			
1	IP 7111111B	Licensed Operator Requalification Program		11/12/2007	11/16/2007	Baseline Inspections
	7112102	- ALARA INSPECTION	1			
1	IP 7112102	ALARA Planning and Controls		11/26/2007	11/30/2007	Baseline Inspections
	ISI	- ISI INSPECTION	1			
1	IP 7111108G	Inservice Inspection Activities - BWR		01/14/2008	02/08/2008	Baseline Inspections
	RP BI	- OUTAGE ACCESS CONTROL AND ALAR	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	02/01/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		01/28/2008	02/01/2008	Baseline Inspections
	EP	- EP PROG AND PI	1			
1	IP 7111402	Alert and Notification System Testing		03/17/2008	03/21/2008	Baseline Inspections

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

Clinton
Inspection / Activity Plan
03/01/2007 - 06/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	EP	- EP PROG AND PI	1			
1	IP 7111403	Emergency Response Organization Augmentation Testing		03/17/2008	03/21/2008	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		03/17/2008	03/21/2008	Baseline Inspections
1	IP 71151	Performance Indicator Verification		03/17/2008	03/21/2008	Baseline Inspections
	HEATSINK	- HEAT SINK INSPECTION	2			
1	IP 7111107B	Heat Sink Performance		03/31/2008	04/04/2008	Baseline Inspections
	RP BI	- GAS LIQUID EFFLUENT	1			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		04/07/2008	04/11/2008	Baseline Inspections
	71121.02	- POST OUTAGE ACCESS/ALARA	1			
1	IP 7112101	Access Control to Radiologically Significant Areas		06/16/2008	06/20/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		06/16/2008	06/20/2008	Baseline Inspections