

August 31, 2006

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

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
CLINTON POWER STATION

Dear Mr. Crane:

On August 7, 2006, the NRC staff completed its performance review of the Clinton Power Station for the first half of the calendar year 2006 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous 12 months. 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 and marked "Exempt from Public Disclosure in Accordance with 10 CFR 2.390" will include the physical protection review and resultant inspection plan.

Plant performance for the most recent quarter at Clinton Power Station 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 March 31, 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. Additionally, inspections by the resident inspectors are planned to complete Temporary Instruction (TI) 2515-169, "Mitigating Systems Performance Index (MSPI) Verification," prior to the end of calendar year 2006. The inspections in the last nine months of the inspection plan are tentative and may be revised at the end-of-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 the 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 Power Station Inspection/Activity Plan

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C. Crane

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**Clinton**  
**Inspection / Activity Plan**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>TI</b>	<b>- 2515/169 MSPI VERIFICATION</b>	<b>2</b>			
1	IP 2515/169	Mitigating Systems Performance Index Verification		08/01/2006	10/31/2006	Safety Issues
	<b>7112101</b>	<b>- RADIOLOGICAL ACCESS &amp; POST OUTAGE ALARA</b>	<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/28/2006	09/01/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		08/28/2006	09/01/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/28/2006	09/01/2006	Baseline Inspections
	<b>M50.59</b>	<b>- MOD 50.59 INSPECTION</b>	<b>2</b>			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		11/06/2006	12/01/2006	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		11/06/2006	12/01/2006	Baseline Inspections
	<b>7112201</b>	<b>- RADIOLOGICAL EFFLUENTS</b>	<b>1</b>			
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		12/11/2006	12/15/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		12/11/2006	12/15/2006	Baseline Inspections
	<b>ME</b>	<b>- MAINTENANCE RULE INSPECTION</b>	<b>1</b>			
1	IP 7111112B	Maintenance Effectiveness		01/15/2007	01/19/2007	Baseline Inspections
	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>5</b>			
1	IP 71152B	Identification and Resolution of Problems		03/05/2007	03/23/2007	Baseline Inspections
	<b>7112103</b>	<b>- RADIOLOGICAL INSTRUMENTATION</b>	<b>2</b>			
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		04/09/2007	04/13/2007	Baseline Inspections
	<b>FY 2007</b>	<b>- CLINTON INIT PREP 07/2007</b>	<b>2</b>			
1	W90158	OL - INITIAL EXAM - CLINTON - JUL/AUG 2007		07/23/2007	07/27/2007	Not Applicable
	<b>BI</b>	<b>- ACCESS CONTROL NON-OUTAGE</b>	<b>1</b>			
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
	<b>EP BI</b>	<b>- BASELINE EP EXERCISE INSP</b>	<b>1</b>			
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
	<b>FY 2007</b>	<b>- CLINTON INIT EXAM 08/2007</b>	<b>3</b>			
1	W90158	OL - INITIAL EXAM - CLINTON - JUL/AUG 2007		08/13/2007	08/24/2007	Not Applicable
	<b>7112202</b>	<b>- TRANSPORTATION &amp; RADWASTE</b>	<b>3</b>			
1	IP 7112202	Radioactive Material Processing and Transportation		09/17/2007	09/21/2007	Baseline Inspections
	<b>CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	<b>5</b>			
1	IP 7111121	Component Design Bases Inspection		10/15/2007	11/16/2007	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**  
**09/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>7112203 - REMP &amp; RAD MTL CONTROL</b>		<b>1</b>			
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		11/05/2007	11/09/2007	Baseline Inspections
	<b>71111.11 - LIC OPERATOR REQUAL PROGRAM EVALUATION</b>		<b>2</b>			
1	IP 7111111B	Licensed Operator Requalification Program		11/12/2007	11/16/2007	Baseline Inspections
	<b>7112102 - ALARA INSPECTION</b>		<b>1</b>			
1	IP 7112102	ALARA Planning and Controls		11/26/2007	11/30/2007	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		11/26/2007	11/30/2007	Baseline Inspections
	<b>BI - OUTAGE ACCESS CONTROL AND ALARA</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		01/21/2008	01/25/2008	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		01/21/2008	01/25/2008	Baseline Inspections
	<b>HEATSINK - HEAT SINK INSPECTION</b>		<b>2</b>			
1	IP 7111107B	Heat Sink Performance		03/24/2008	03/28/2008	Baseline Inspections