

August 31, 2007

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 14, 2007, the NRC staff completed its performance review of the Clinton Power Station for the first half of the calendar year 2007 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 security information. A separate letter designated and marked as "Official Use Only - Security Information" will include the security cornerstone review and resultant inspection plan.

Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on one White Notice of Violation (NOV) of 10 CFR 50, Appendix B, Criterion III, Design Control, requirements. The White finding was issued as an apparent violation in November 2006 for failure to adequately address vortexing in the reactor core isolation cooling (RCIC) storage tank and its effect on operability of the high pressure core spray (HPCS) system. The NOV was issued on February 7, 2007.

In June 2007, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review the actions taken to address the failure to adequately address vortexing in the RCIC storage tank and its effect on operability of the HPCS system. Therefore, we began the Supplemental Inspection 95001 on August 28, 2007.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 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. Additional inspections scheduled include: component design bases inspection, triennial fire protection inspection, and mods/50.59 inspection. 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).

The NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the 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 by Anthony H. Hsia Acting for/

Cynthia D. Pederson, Director
Division of Reactor Projects

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

Enclosure: Clinton Power Station Inspection/Activity Plan

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Letter to C. Crane from C. Pederson dated August 31, 2007

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

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
McLean County Sheriff
EMA Coordinator, McLean County
Piatt County Board Chairman
Piatt County Sheriff
EMA Coordinator, Piatt County
Macon County Board Chairman
Macon County Sheriff
EMA Coordinator, Macon County
INPO

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CLINTON POWER STATION

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Clinton
Inspection / Activity Plan
09/01/2007 - 12/31/2008

Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
95001 - 95001 FOR RCIC/HPCS VORTEXING		2			
IP 95001	Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area		08/28/2007	09/07/2007	Supplemental Progra
BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		4			
IP 7111401	Exercise Evaluation		09/10/2007	09/14/2007	Baseline Inspections
IP 71151-EP01	Drill/Exercise Performance		09/10/2007	09/14/2007	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		09/10/2007	09/14/2007	Baseline Inspections
IP 71151-EP03	Alert & Notification System		09/10/2007	09/14/2007	Baseline Inspections
BI RP - RADIATION PROTECTION BASELINE INSPECTION		1			
IP 7112202	Radioactive Material Processing and Transportation		09/17/2007	09/21/2007	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		09/17/2007	09/21/2007	Baseline Inspections
BI ENG - COMPONENT DESIGN BASES INSPECTION		5			
IP 7111121	Component Design Bases Inspection		10/15/2007	11/16/2007	Baseline Inspections
BI RP - RADIATION PROTECTION BASELINE INSPECTION		1			
IP 7112101	Access Control to Radiologically Significant Areas		11/05/2007	11/09/2007	Baseline Inspections
IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		11/05/2007	11/09/2007	Baseline Inspections
BI OL - BIENNIAL REQUAL. PROGRAM INSPECTION		2			
IP 7111111B	Licensed Operator Requalification Program		11/05/2007	11/09/2007	Baseline Inspections
BI RP - RADIATION PROTECTION BASELINE INSPCETION		1			
IP 7112101	Access Control to Radiologically Significant Areas		11/26/2007	11/30/2007	Baseline Inspections
IP 7112102	ALARA Planning and Controls		11/26/2007	11/30/2007	Baseline Inspections
BI ENG - ENGINEERING INSERVICE INSPECTION		1			
IP 7111108G	Inservice Inspection Activities - BWR		01/14/2008	02/08/2008	Baseline Inspections
BI RP - RADIATION PROTECTION BASELINE INSPECTION		1			
IP 7112101	Access Control to Radiologically Significant Areas		01/28/2008	02/01/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		01/28/2008	02/01/2008	Baseline Inspections
BI EP - EP ROUTINE INSPECTION / PI VERIFICATION		1			
IP 7111402	Alert and Notification System Testing		03/17/2008	03/21/2008	Baseline Inspections
IP 7111403	Emergency Response Organization Augmentation Testing		03/17/2008	03/21/2008	Baseline Inspections
IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		03/17/2008	03/21/2008	Baseline Inspections
IP 71151-EP01	Drill/Exercise Performance		03/17/2008	03/21/2008	Baseline Inspections
IP 71151-EP02	ERO Drill Participation		03/17/2008	03/21/2008	Baseline Inspections
IP 71151-EP03	Alert & Notification System		03/17/2008	03/21/2008	Baseline Inspections
BI ENG - BIENNIAL HEAT SINK INSPECTION		2			
IP 7111107B	Heat Sink Performance		03/31/2008	04/04/2008	Baseline Inspections

Clinton
Inspection / Activity Plan
09/01/2007 - 12/31/2008

Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
			Start	End	
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		04/07/2008	04/11/2008	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112101	Access Control to Radiologically Significant Areas		06/16/2008	06/20/2008	Baseline Inspections
IP 7112102	ALARA Planning and Controls		06/16/2008	06/20/2008	Baseline Inspections
BI ENG	- TRIENNIAL FIRE PROTECTION INSPECTION	3			
IP 7111105T	Fire Protection [Triennial]		09/15/2008	10/03/2008	Baseline Inspections
BI RP	- RADIATION PROTECTION BASELINE INSPECTION	1			
IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		10/20/2008	10/24/2008	Baseline Inspections
IP 71151-BI01	Reactor Coolant System Activity		10/20/2008	10/24/2008	Baseline Inspections
IP 71151-OR01	Occupational Exposure Control Effectiveness		10/20/2008	10/24/2008	Baseline Inspections
IP 71151-PR01	RETS/ODCM Radiological Effluent		10/20/2008	10/24/2008	Baseline Inspections
BI ENG	- ENGINEERING MODIFICATIONS / 50.59 INSP.	2			
IP 7111102	Evaluation of Changes, Tests, or Experiments		12/01/2008	12/19/2008	Baseline Inspections
IP 7111117B	Permanent Plant Modifications		12/01/2008	12/19/2008	Baseline Inspections