



UNITED STATES  
**NUCLEAR REGULATORY COMMISSION**  
REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

August 31, 2006

Mr. Christopher M. Crane  
President and CNO  
Exelon Nuclear  
Exelon Generation Company, LLC  
200 Exelon Way  
Kennett Square, PA 19348

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN -  
LIMERICK GENERATING STATION

Dear Mr. Crane:

On August 7, 2006, the NRC staff completed its performance review of Limerick Generating 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 twelve 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 as "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 Limerick Units 1 and 2 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. We also plan to conduct independent spent fuel storage installation (ISFSI) inspections.

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. 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). ADAMS is 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 me at 610-337-5186 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA/**

James M. Trapp, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket Nos. 50-352, 50-353  
License Nos. NPF-39, NPF-85

Enclosure: Limerick Inspection/ Activity Plan

cc w/encl:

Chief Operating Officer, Exelon Generation Company, LLC  
Site Vice President - Limerick Generating Station  
Plant Manager, Limerick Generating Station  
Regulatory Assurance Manager - Limerick  
Senior Vice President - Nuclear Services  
Vice President - Mid-Atlantic Operations  
Vice President - Operations Support  
Vice President - Licensing and Regulatory Affairs  
Director - Licensing and Regulatory Affairs, Exelon Generation Company, LLC  
Manager, Licensing - Limerick Generating Station  
Vice President, General Counsel and Secretary  
Associate General Counsel, Exelon Generation Company  
Correspondence Control Desk  
Director, Bureau of Radiation Protection, PA Department of Environmental Protection  
J. Johnsrud, National Energy Committee, Sierra Club  
Chairman, Board of Supervisors of Limerick Township  
J. Bradley Fewell, Assistant General Counsel, Exelon Nuclear

C. Crane

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Sincerely,

James M. Trapp, Chief  
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Division of Reactor Projects

Docket Nos. 50-352, 50-353  
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Enclosure: Limerick Inspection/ Activity Plan

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**SUNSI Review Complete:   \_\_CBK\_\_\_\_  (Reviewer's Initials)**

DOCUMENT NAME: S:\ROP 7 Mid Cycle Review\2006 ROP7 Mid-Cycle Letters\LIM 2006 Mid-cycle Letter.wpd

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OFFICE	RI/DRP	RI/DRP	RI/DRP	E
NAME	SHansell/CBK FOR	CKhan	JTrapp	
DATE	08/31/06	08/31/06	08/31/06	

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**Limerick**  
**Inspection / Activity Plan**  
**07/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start End	Inspection Type
	<b>71151 - EP PI VERIFICATION</b>		<b>1</b>		
1, 2	IP 71151	Performance Indicator Verification		08/07/2006 08/11/2006	Baseline Inspections
	<b>7111107B - HEAT SINK</b>		<b>2</b>		
1, 2	IP 7111107B	Heat Sink Performance		08/14/2006 08/18/2006	Baseline Inspections
	<b>7111112B - MAINTENANCE RULE</b>		<b>1</b>		
1, 2	IP 7111112B	Maintenance Effectiveness		09/18/2006 09/22/2006	Baseline Inspections
	<b>10/23EXM - OPERATOR LICENSE INITIAL EXAMS</b>		<b>4</b>		
1	U01664	FY07-LIMERICK INITIAL OPERATOR EXAM		09/25/2006 09/29/2006	Not Applicable
1	U01664	FY07-LIMERICK INITIAL OPERATOR EXAM		10/23/2006 11/03/2006	Not Applicable
	<b>MODS - MODS AND 50.59</b>		<b>3</b>		
1, 2	IP 7111102	Evaluation of Changes, Tests, or Experiments		10/23/2006 10/27/2006	Baseline Inspections
1, 2	IP 7111117B	Permanent Plant Modifications		10/23/2006 10/27/2006	Baseline Inspections
	<b>TI-169 - TI: MSPI VERIFICATION</b>		<b>1</b>		
1, 2	IP 2515/169	Mitigating Systems Performance Index Verification		11/06/2006 11/10/2006	Safety Issues
	<b>7112103 - OCC RAD SAFETY - INSTRUMENTS</b>		<b>1</b>		
1, 2	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		11/27/2006 12/01/2006	Baseline Inspections
	<b>7112101 - OCC RAD SAFETY</b>		<b>1</b>		
1, 2	IP 7112101	Access Control to Radiologically Significant Areas		01/08/2007 01/12/2007	Baseline Inspections
	<b>7111108G - U2 IN-SERVICE INSPECTION</b>		<b>1</b>		
2	IP 7111108G	Inservice Inspection Activities - BWR		03/12/2007 03/16/2007	Baseline Inspections
	<b>7112102 - OCC RAD SAFETY</b>		<b>1</b>		
1, 2	IP 7112102	ALARA Planning and Controls		03/19/2007 03/23/2007	Baseline Inspections
	<b>6/2 EXAM - INITIAL LSRO OPERATOR EXAM</b>		<b>2</b>		
1	U01659	FY07 - LIMERICK (UNIT 1&2) INITIAL LSRO EXAM		05/05/2007 05/09/2007	Not Applicable
1	U01659	FY07 - LIMERICK (UNIT 1&2) INITIAL LSRO EXAM		06/02/2007 06/06/2007	Not Applicable
	<b>ISFSI - ISFSI CONSTRUCTION INSPECTION</b>		<b>1</b>		
1, 2	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants		04/01/2007 09/30/2007	Other Routine
	<b>71114 - EP PRGM INSP</b>		<b>1</b>		
1, 2	IP 7111402	Alert and Notification System Testing		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 7111403	Emergency Response Organization Augmentation Testing		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 7111404	Emergency Action Level and Emergency Plan Changes		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 71151-EP01	Drill/Exercise Performance		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 71151-EP02	ERO Drill Participation		06/10/2007 06/14/2007	Baseline Inspections
1, 2	IP 71151-EP03	Alert & Notification System		06/10/2007 06/14/2007	Baseline Inspections

This report does not include INPO and OUTAGE activities.

This report shows only on-site and announced inspection procedures.

**Limerick**  
**Inspection / Activity Plan**  
**07/01/2006 - 03/31/2008**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>TRI FIRE - TRIENNIAL FIRE PROTECTION INSPECTION</b>		<b>3</b>			
1,2	IP 7111105T	Fire Protection [Triennial]		07/16/2007	07/20/2007	Baseline Inspections
1,2	IP 7111105T	Fire Protection [Triennial]		07/30/2007	08/03/2007	Baseline Inspections
	<b>7111111B - L.O.(PWR.) REQUAL. PROG. + P/F REVIEW</b>		<b>3</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		09/24/2007	09/28/2007	Baseline Inspections
1,2	IP 7111111B	Licensed Operator Requalification Program		10/01/2007	10/05/2007	Baseline Inspections
	<b>7111401 - EP EXERCISE &amp; PI VERIFICATION</b>		<b>4</b>			
1,2	IP 7111401	Exercise Evaluation		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP01	Drill/Exercise Performance		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP02	ERO Drill Participation		08/06/2007	08/10/2007	Baseline Inspections
1,2	IP 71151-EP03	Alert & Notification System		08/06/2007	08/10/2007	Baseline Inspections
	<b>7111111B - LSRO REQUAL AN OPTEST @PB + P/F REVIEW</b>		<b>2</b>			
1,2	IP 7111111B	Licensed Operator Requalification Program		11/01/2007	11/01/2007	Baseline Inspections
	<b>7111121 - CDBI (COMPONENT DESIGN BASES INSPECTION)</b>		<b>6</b>			
1,2	IP 7111121	Component Design Bases Inspection		10/01/2007	10/05/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		10/15/2007	10/19/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		10/29/2007	11/02/2007	Baseline Inspections
1,2	IP 7111121	Component Design Bases Inspection		11/05/2007	11/09/2007	Baseline Inspections
	<b>7112203 - PUB RAD SAFETY - REMP</b>		<b>1</b>			
1,2	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control Pr		11/12/2007	11/16/2007	Baseline Inspections
	<b>7112201 - PUB RAD SAFETY - RETS</b>		<b>1</b>			
1,2	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		11/26/2007	11/30/2007	Baseline Inspections
	<b>7112101 - OCC RAD SAFETY - ACCESS</b>		<b>1</b>			
1,2	IP 7112101	Access Control to Radiologically Significant Areas		01/07/2008	01/11/2008	Baseline Inspections
	<b>7112102 - OCC RAD SAFETY - ALARA</b>		<b>1</b>			
1,2	IP 7112102	ALARA Planning and Controls		03/10/2008	03/14/2008	Baseline Inspections