



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I**
2100 RENAISSANCE BOULEVARD, SUITE 100
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

March 4, 2013

Mr. Michael J. Pacilio
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer, Exelon Nuclear
4300 Winfield Rd.
Warrenville, IL 60555

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR LIMERICK GENERATING STATION
UNITS 1 AND 2 (REPORT 05000352/2012001 AND 05000353/2012001)**

Dear Mr. Pacilio:

On February 12, 2013, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of the Limerick Generating Station (Limerick) Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from January 1, 2012 through December 31, 2012. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Limerick Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. Limerick Unit 2 was in the Regulatory Response Column of the NRC's Reactor Oversight Process Action Matrix until the end of the second quarter, due to a white finding issued in the third quarter of 2011. The white finding involved a failure to ensure proper technical guidance was contained in operating procedures to ensure two Main Feedwater system motor operated valves were fully shut. This resulted in a primary containment isolation valve and the Reactor Core Isolation Cooling system being inoperable. Limerick Unit 2 transitioned back to the Licensee Response Column effective July 1, 2012, following completion of a supplemental inspection on June 28, 2012, using NRC Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." This transition was documented in NRC Inspection Report and Assessment Follow Up Letter dated August 2, 2012 (ML12215A272). The NRC determined the performance at Limerick Units 1 and 2 during the most recent quarter was within the Licensee Response Column because all inspection findings had very low (i.e., green) safety significance and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

The NRC evaluates cross-cutting themes to determine whether a substantive cross-cutting issue exists in a particular area and to encourage licensees to take appropriate actions before more significant performance issues emerge. The NRC identified a cross-cutting theme in the Human Performance Area. Specifically, the NRC identified four findings during 2012 with a documented cross-cutting aspect of H.4(b) Work Practices-Procedural Compliance.

The NRC determined that a substantive cross-cutting issue associated with H.4(b) does not exist because the NRC does not have a concern with your staff's scope of effort and progress in addressing the cross-cutting theme. Exelon has recognized the cross-cutting theme and has initiated action to conduct a root cause evaluation and develop appropriate corrective actions. The NRC will continue to monitor your staff's effort and progress in addressing the theme until the theme criteria are no longer met.

The enclosed inspection plan lists the inspections scheduled through June 30, 2014. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. In addition to baseline inspections, the NRC will perform IP 60855, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," IP 92702, "Follow-up on Corrective Actions for Violations and Deviations," and Temporary Instruction (TI) 182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks." The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections, which will be sent via separate, non-publicly available correspondence.

From September 2011 to August 2012, the NRC issued three severity level IV traditional enforcement violations associated with impeding the regulatory process. Therefore, the NRC plans to conduct an inspection using IP 92723, "Follow-up Inspection of Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period," to follow-up on these violations during the first quarter 2013. In addition, the NRC plans to complete inspections using IP 92702, "Follow-up on Corrective Actions for Violations and Deviations," for a severity level IV traditional enforcement violation related to willful misconduct documented in a NRC letter, dated October 18, 2012 (ML12292A140) and for a Green Notice of Violation documented in a NRC Inspection Report dated November 1, 2012 (ML12306A397).

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact Mel Gray at (610) 337-5209 with any questions you have regarding this letter.

Sincerely,

/RA/

Darrell J. Roberts, Director
Division of Reactor Projects

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

Enclosure: Limerick Generating Station Inspection Plan

cc w/encl: Distribution via ListServ

The NRC determined that a substantive cross-cutting issue associated with H.4(b) does not exist because the NRC does not have a concern with your staff's scope of effort and progress in addressing the cross-cutting theme. Exelon has recognized the cross-cutting theme and has initiated action to conduct a root cause evaluation and develop appropriate corrective actions. The NRC will continue to monitor your staff's effort and progress in addressing the theme until the theme criteria are no longer met.

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Docket Nos.: 50-352, 50-353
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Enclosure: Limerick Generating Station Inspection Plan

cc w/encl: Distribution via ListServ

DOCUMENT NAME: S/ROP-13 Review/Branch 4/LIM/LIM AAL .docx

ADAMS ACCESSION NUMBER: **ML13063A127**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	RI/DRP		
NAME	ARosebrook/AAR	MGray/MG	DRoberts/DJR		
DATE	02/15/13	02/28/13	02/28/13		

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Limerick
Inspection / Activity Plan
01/01/2013 - 06/30/2014

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			HP	- RADIATION SAFETY INSPECTIONS	1
1,2	03/04/2013	03/08/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	03/04/2013	03/08/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	03/04/2013	03/08/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	03/04/2013	03/08/2013	IP 71124.04	Occupational Dose Assessment	
1,2	03/04/2013	03/08/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			92723	- FOLLOWUP FOR MULTIPLE TE VIOLATIONS	2
1,2	03/11/2013	03/15/2013	IP 92702	Followup On Corrective Actions For Violations And Deviations	
1,2	03/11/2013	03/15/2013	IP 92723	Follow Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the S	
			7111108G	- U2 INSERVICE INSPECTION	1
2	04/01/2013	04/05/2013	IP 7111108G	Inservice Inspection Activities - BWR	
			HP	- RADIATION SAFETY INSPECTIONS	1
1,2	04/01/2013	04/05/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	04/01/2013	04/05/2013	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	04/01/2013	04/05/2013	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	04/01/2013	04/05/2013	IP 71124.04	Occupational Dose Assessment	
1,2	04/01/2013	04/05/2013	IP 71124.05	Radiation Monitoring Instrumentation	
			TRI FI	- TRIENNIAL FIRE PROTECTION INSPECTION	5
1,2	05/06/2013	05/10/2013	IP 7111105T	Fire Protection [Triennial]	
1,2	05/20/2013	05/24/2013	IP 7111105T	Fire Protection [Triennial]	
			60855	- ISFSI LOADING INSPECTION	2
1,2	06/01/2013	08/31/2013	IP 60855	Operation Of An ISFSI	
1,2	06/01/2013	08/31/2013	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			HP	- RADIATION SAFETY INSPECTIONS	1
1,2	07/08/2013	07/12/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	07/08/2013	07/12/2013	IP 71124.07	Radiological Environmental Monitoring Program	
			HP	- RADIATION SAFETY INSPECTIONS	1
1,2	11/04/2013	11/08/2013	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	11/04/2013	11/08/2013	IP 71124.05	Radiation Monitoring Instrumentation	
1,2	11/04/2013	11/08/2013	IP 71151-PR01	RETS/ODCM Radiological Effluent	
			TI 182	- DEGRAD IATION UNDERGROUND PIPING-PHASE 2	1
1,2	11/12/2013	11/15/2013	IP 2515/182	Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	
			EP EX	- EP EXERCISE EVALUATION	6
1,2	11/18/2013	11/22/2013	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	

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

Limerick
Inspection / Activity Plan
01/01/2013 - 06/30/2014

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71124.08 - RADWASTE		1
1,2	02/10/2014	02/14/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - RAD SAFETY INSPECTION		1
1,2	02/24/2014	02/28/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	02/24/2014	02/28/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	02/24/2014	02/28/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	02/24/2014	02/28/2014	IP 71124.04	Occupational Dose Assessment	
1,2	02/24/2014	02/28/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			7111108G - U1 INSERVICE INSPECTION		1
1	03/31/2014	04/04/2014	IP 7111108G	Inservice Inspection Activities - BWR	
			71124 - RAD SAFETY INSPECTION		1
1	03/31/2014	04/04/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/31/2014	04/04/2014	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/31/2014	04/04/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/31/2014	04/04/2014	IP 71124.04	Occupational Dose Assessment	
1	03/31/2014	04/04/2014	IP 71124.05	Radiation Monitoring Instrumentation	
			71124 - RAD ENVIRONMENTAL MONITORING PROGRAM		1
1,2	06/09/2014	06/13/2014	IP 71124.07	Radiological Environmental Monitoring Program	