



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION I
2100 RENAISSANCE BLVD.
KING OF PRUSSIA, PA 19406-2713

March 1, 2017

Mr. Bryan Hanson
Senior Vice President, Exelon Generation Co., 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 NOS. 05000352/2016006 AND 05000353/2016006**

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Limerick Generating Station (LGS) Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016 through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at LGS Units 1 and 2 during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. Additionally, the NRC plans to conduct temporary instruction (TI) 192, Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

B. Hanson

- 2 -

In accordance with Title 10 of the *Code of Federal Regulations* (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 NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure:
Inspection/Activity Plan

SUBJECT: ANNUAL ASSESSMENT LETTER FOR LIMERICK GENERATING STATION
 UNITS 1 AND 2 – (REPORT NOS. 05000352/2016006 AND 05000353/2016006)
 DATED MARCH 1, 2017

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Limerick
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			2/6EXAM	- LIMERICK INITIAL OL EXAM	4
1	01/15/2017	01/19/2017	U01940	FY17-LIMERICK INITIAL OPERATOR LICENSING EXAM	
			50.59	- EVALS OF CHANGES, TESTS, & EXPERIMENTS	3
1, 2	03/06/2017	03/10/2017	IP 7111117T-5059scrm	screenings and/or applicability determinations	
			HP	- RADIATION SAFETY - CLOSEOUT 02,03,04,05	1
1, 2	03/13/2017	03/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	03/13/2017	03/17/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/13/2017	03/17/2017	IP 71124.04	Occupational Dose Assessment	
1, 2	03/13/2017	03/17/2017	IP 71124.05	Radiation Monitoring Instrumentation	
			7111108G	- U2 INSERVICE INSPECTION	1
2	04/24/2017	04/28/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			HP	- RADIATION SAFETY - RAD HAZARDS	1
1, 2	04/24/2017	04/28/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			12/17EXM	- DECEMBER 2017 LIMERICK INITIAL EXAM	4
1	11/20/2017	11/24/2017	U01956	FY18-LIMERICK INITIAL OPERATOR LICENSING EXAM	
1	12/18/2017	12/22/2017	U01956	FY18-LIMERICK INITIAL OPERATOR LICENSING EXAM	
			7111107T	- TRIENNIAL HEAT SINK	1
1, 2	07/17/2017	07/21/2017	IP 7111107T	Heat Sink Performance	
			HP	- RADIATION SAFETY - REMP	1
1, 2	08/28/2017	09/01/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			7111111B	- LIMERICK REQUAL INSP W/ P/F RESULTS	2
1, 2	10/23/2017	10/27/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	
1, 2	10/23/2017	10/27/2017	IP 7111111B	Licensed Operator Requalification Program	
			EP	- EP EXERCISE EVALUATION	4
1, 2	11/13/2017	11/17/2017	IP 7111401	Exercise Evaluation	
1, 2	11/13/2017	11/17/2017	IP 71151	Performance Indicator Verification	
			7111121N	- EQ PROGRAM	3
1, 2	10/23/2017	10/27/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
1, 2	11/06/2017	11/10/2017	IP 7111121N	Component Design Bases Inspection (Programs)	
			HP	- RADIATION SAFETY - RAD HAZ & PIV	1
1, 2	12/04/2017	12/08/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/04/2017	12/08/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	12/04/2017	12/08/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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

Limerick
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			71124.08 - RADWASTE		1
1, 2	01/08/2018	01/12/2018	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			HP - RADIATION SAFETY - ALARA		1
1, 2	02/05/2018	02/09/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			HP - RADIATION SAFETY - RAD HAZ		1
1, 2	04/02/2018	04/06/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/02/2018	04/06/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	04/02/2018	04/06/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			U1 ISI - UNIT 1 INSERVICE INSPECTION		2
1	04/02/2018	04/06/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			11/18EXM - NOVEMBER 18 LIMERICK INITIAL EXAM (FY19)		4
1	10/22/2018	10/26/2018	U01971	FY19- LIMERICK INITIAL OPERATOR LICENSING EXAM	
1	11/19/2018	11/23/2018	U01971	FY19- LIMERICK INITIAL OPERATOR LICENSING EXAM	
			HP - RADIATION SAFETY - AIRBORNE		1
1, 2	05/14/2018	05/18/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			711121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)		6
1, 2	06/11/2018	06/15/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	06/25/2018	06/29/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
			71152B - PI&R BIENNIAL		1
1, 2	10/15/2018	10/19/2018	IP 71152B	Problem Identification and Resolution	
1, 2	10/29/2018	11/02/2018	IP 71152B	Problem Identification and Resolution	
			EP - EP PROGRAM INSPECTION		1
1, 2	12/03/2018	12/07/2018	IP 7111402	Alert and Notification System Testing	
1, 2	12/03/2018	12/07/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	12/03/2018	12/07/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	12/03/2018	12/07/2018	IP 71151	Performance Indicator Verification	
			HP - RADIATION SAFETY - DOSIMETRY & PIV		1
1, 2	11/12/2018	11/16/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	11/12/2018	11/16/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	11/12/2018	11/16/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

Comments:

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