

UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION I 2100 RENAISSANCE BOULEVARD, SUITE 100 KING OF PRUSSIA. PA 19406-2713

March 4, 2019

Mr. Bryan C. Hanson 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 (REPORTS 05000352/2018006 AND 05000353/2018006)

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, 2018, through December 31, 2018. 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 (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," 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, 2020. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. Furthermore, all 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.

In addition to baseline inspections, the NRC will also conduct Temporary Instruction 2515/191, "Inspection of Licensee's Responses to Order EA-12-049, EA-12-051, and Emergency Preparedness Info Request," in June 2019; Inspection Procedure 60855.1, "Operation of an ISFSI at Operating Plant," in July 2019; and Inspection Procedure 37060, "10 CFR 50.69 Risk-

B. Hanson 2

Informed Categorization and Treatment of Structures, Systems, and Components Inspection." A date for conduct of the last inspection has not been identified, and NRC staff will coordinate with your staff to identify a mutually agreeable time.

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's 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) 337-5337 with any guestions you have regarding this letter.

Sincerely,

/RA/

Jonathan E. Greives, 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 Plan

cc w/encl: Distribution via ListServ

B. Hanson 3

SUBJECT: ANNUAL ASSESSMENT LETTER FOR LIMERICK GENERATING STATION,

UNITS 1 AND 2 (REPORTS 05000352/2018006 AND 05000353/2018006)

DATED MARCH 4, 2019

DISTRIBUTION: (via email)

DLew, RA
RLorson, DRA
DCollins, DRP
DPelton, DRP
JYerokun, DRS
BWelling, DRS

(R1ORAMAIL Resource)
(R1DRPMAIL Resource)
(R1DRPMAIL Resource)
(R1DRSMAIL Resource)
(R1DRSMAIL Resource)

JGreives, DRP GCroon, DRP MRossi, DRP

SRutenkroger, DRP, SRI

MFannon, DRP, RI NEsch, DRP, AA

MMcCoppin, RI OEDO

RidsNrrPMLimerick Resource

RidsNrrDorlLpl1 Resource

ROPreports Resource

DRS Branch Chiefs (4)

DTifft, SLO

CGordon, SLO

DScrenci, PAO

NSheehan, PAO

RidsNrrDirslpab Resource

ROPassessment Resource

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-19 EOC Review\Branch 4\Limerick 2018 Annual Assessment- final.docx ADAMS ACCESSION NUMBER: ML19060A178

☑ SUNSI Review		☑ Non-Sensi Sensitive	tive	☑ Publicly Available Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	GCroon via email	JGreives			
DATE	2/28/19	3/4/19			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Limerick

01/01/2019 - 12/31/2020

	Start	End	Activity	CAC	Title Staff (Count
TRIENNIAL FI	RE PROTECTION					4
1, 2	01/28/2019	02/01/2019	IP 71111.05T	000696	Fire Protection (Triennial)	
1, 2	02/11/2019	02/15/2019	IP 71111.05T	000696	Fire Protection (Triennial)	
RADIATION S	AFETY - INSTRU	MENTS				1
1, 2	01/28/2019	02/01/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
INSERVICE IN	SPECTION - UNI	T 2				1
2	04/21/2019	04/27/2019	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
RADIATION S	AFETY RAD HAZ	<u> </u>				1
1, 2	04/22/2019	04/26/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/22/2019	04/26/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/22/2019	04/26/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
TI-191 FUKUS	HIMA LESSONS	-LEARNED				1
1, 2	06/10/2019	06/14/2019	TI 2515/191	000509	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Re March 12, 2012	equest
ISFSI OPERAT	IONAL INSPECT	ION				2
1, 2	07/08/2019	07/12/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plant	S
ACCESS CONT	ROL, EQUIP PER	RF, TRAINING				3
1, 2	07/08/2019	07/12/2019	IP 71130.02	000734	Access Control	
1, 2	07/08/2019	07/12/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	07/08/2019	07/12/2019	IP 71130.07	000739	Security Training	
1, 2	07/08/2019	07/12/2019	IP 71151	001338	Performance Indicator Verification	
Material Cont	rol and Account	ability				1
1, 2	08/18/2019	08/24/2019	IP 71130.11	000742	Material Control and Accounting (MC&A)	
RADIATION S	AFETY - REMP					1
1, 2	09/09/2019	09/13/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
DECEMBER 20	019 LIMERICK IN					4
1, 2	09/22/2019	09/27/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	12/01/2019	12/06/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	

This report does not include INPO and OUTAGE activities.

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

IP 22 Inspection Activity Plan Report

Limerick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title Staff C	Count
LIMERICK R	EQUAL INSP W/ P	/F RESULTS				2
1, 2	10/20/2019	10/25/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance (Annual)	
1, 2	10/20/2019	10/25/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
EP EXERCISE	INSPECTION					5
1, 2	11/18/2019	11/22/2019	IP 71114.01	000716	Exercise Evaluation	
1, 2	11/18/2019	11/22/2019	IP 71151	001397	Performance Indicator Verification	
Radiation Sa	afety - RETS & PIV	,				1
1, 2	12/09/2019	12/13/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	12/09/2019	12/13/2019	IP 71151	000746	Performance Indicator Verification	
Radwaste						1
1, 2	01/06/2020	01/10/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, Transportation	and
Access Auth	orization and Fitn	ess for Duty			•	3
1, 2	01/06/2020	01/10/2020	IP 71130.01	000733	Access Authorization	
1, 2	01/06/2020	01/10/2020	IP 71130.08	000740	Fitness For Duty Program	
Radiation Sa	afety - ALARA					1
1, 2	01/27/2020	01/31/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
CYBER FULL	IMP				· · · · · · · · · · · · · · · · · · ·	4
1, 2	01/27/2020	01/31/2020	IP 71130.10P	000741	Cyber Security	
1, 2	02/10/2020	02/14/2020	IP 71130.10P	000741	Cyber Security	
Radiation Sa	afety - Rad Haz					1
1, 2	03/30/2020	04/03/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/30/2020	04/03/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/30/2020	04/03/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
ISI - UNIT 1						1
1	04/06/2020	04/10/2020	IP 71111.08G	000701	Inservice Inspection Activities (BWR)	
					•	

IP 22 Inspection Activity Plan Report

Limerick

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
PI&R Bienni	al Team Inspectio	n				4
1, 2	06/08/2020	06/12/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	06/22/2020	06/26/2020	IP 71152B	000747	Problem Identification and Resolution	
50.59 INSPE	CTION					3
1, 2	07/20/2020	07/24/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
LIMERICK EF	PROGRAM INSP	ECTION				1
1, 2	09/07/2020	09/11/2020	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	09/07/2020	09/11/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	09/07/2020	09/11/2020	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	09/07/2020	09/11/2020	IP 71151	001397	Performance Indicator Verification	
PROGRAM I	NSPECTION					3
1, 2	09/14/2020	09/18/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	09/28/2020	10/02/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
Radiation Sa	fety - Airborne					1
1, 2	09/14/2020	09/18/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
Access Cont	rol, Protective Str	ategy, TSR				4
1, 2	10/05/2020	10/09/2020	IP 71130.02	000734	Access Control	
1, 2	10/05/2020	10/09/2020	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	10/05/2020	10/09/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	10/05/2020	10/09/2020	IP 71151	001338	Performance Indicator Verification	
FY21 LIMERI	CK INITIAL OL EX	KAM				4
1	11/08/2020	11/13/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	12/06/2020	12/11/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
TRIENNIAL I	HEAT SINK					1
1, 2	11/16/2020	11/20/2020	IP 71111.07T	000700	Heat Sink Performance -Triennial	
Radiation Sa	fety - Dose & PI\	<u></u>				1
1, 2	12/14/2020	12/18/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	12/14/2020	12/18/2020	IP 71151	000746	Performance Indicator Verification	