



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

March 1, 2017

Mr. Bryan C. Hanson
Senior VP, Exelon Generation Company, LLC
President and CNO, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER
STATION, UNITS 1 AND 2 (REPORT 05000254/2016006; 05000265/2016006)**

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of Quad Cities Nuclear Power Station, 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 Quad Cities Nuclear Power Station, 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. 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.

In addition to the baseline inspection, the NRC inspection schedule includes an infrequently performed inspection in accordance with Inspection Procedure (IP) 60853, "On-Site Fabrication of Components and Construction of an ISFSI [Independent Spent Fuel Storage Installation]," an infrequently performed inspection in accordance with IP 60855.1, "Operation of an Independent Spent Fuel Storage Installation at Operating Plants," and a Temporary Instruction in accordance with TI 2515/191, "Inspection of the Implementation of Mitigating Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communications/Staffing/Multi-Unit Dose Assessment Plans."

B. Hanson

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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 Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 630-829-9731 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Karla Stoedter, Chief
Branch 1
Division of Reactor Projects

Docket Nos. 50-254, 50-265
License Nos. DPR-29, DPR-30

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

B. Hanson

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Letter to Bryan C. Hanson from Karla Stoedter dated March 1, 2017

SUBJECT: ANNUAL ASSESSMENT LETTER FOR QUAD CITIES NUCLEAR POWER
STATION, UNITS 1 AND 2 (REPORT 05000254/2016006; 05000265/2016006)

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Quad Cities
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI EP - EP BASELINE INSPECTION / PI VERIFICATION		1
1, 2	03/06/2017	03/10/2017	IP 7111402	Alert and Notification System Testing	
1, 2	03/06/2017	03/10/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	03/06/2017	03/10/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	03/06/2017	03/10/2017	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	03/27/2017	03/31/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/27/2017	03/31/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/27/2017	03/31/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/27/2017	03/31/2017	IP 71124.04	Occupational Dose Assessment	
			ISI - INSERVICE INSPECTION		1
1	03/27/2017	04/12/2017	IP 7111108G	Inservice Inspection Activities - BWR	
			ISFSI - ISFSI PAD INSPECTION		1
1, 2	05/01/2017	08/01/2017	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
1, 2	08/01/2017	10/31/2017	IP 60853	On-Site Fabrication Of Components And Construction On An ISFSI	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/05/2017	06/09/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	09/18/2017	09/22/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	09/18/2017	09/22/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			OL-RQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
1, 2	10/16/2017	10/20/2017	IP 7111111B	Licensed Operator Requalification Program	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	11/13/2017	11/17/2017	IP 71124.02	Occupational ALARA Planning and Controls	
			BI ENG - DBA TEAM		6
1, 2	11/13/2017	12/01/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	12/11/2017	12/15/2017	IP 71124.05	Radiation Monitoring Instrumentation	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	03/19/2018	03/23/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/19/2018	03/23/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/19/2018	03/23/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/19/2018	03/23/2018	IP 71124.04	Occupational Dose Assessment	

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

Quad Cities
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			ISI - INSERVICE INSPECTION UNIT 2		1
2	03/19/2018	04/04/2018	IP 7111108G	Inservice Inspection Activities - BWR	
			ISFSI - ISFSI CASK LOADING INSPECTION		1
1, 2	06/01/2018	09/01/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			OL PREP - INITIAL PREP JUNE 2018		3
1	06/18/2018	06/22/2018	W90378	OL - INITIAL EXAM - 2018 JUN-JULY - QUAD CITIES	
			OL EXAM - INITIAL EXAM JULY 2018		3
1	07/16/2018	07/25/2018	W90378	OL - INITIAL EXAM - 2018 JUN-JULY - QUAD CITIES	
			BI ENG - DBA PROGRAMS		4
1, 2	08/20/2018	09/07/2018	IP 7111121N	Component Design Bases Inspection (Programs)	
			BI PI&R - BIENNIAL PI&R INSPECTION		4
1, 2	09/10/2018	09/28/2018	IP 71152B	Problem Identification and Resolution	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	09/24/2018	09/28/2018	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	09/24/2018	09/28/2018	IP 71124.07	Radiological Environmental Monitoring Program	
			BI HS - TRIENNIAL HEAT SINK INSPECTION		2
1, 2	11/05/2018	11/09/2018	IP 7111107T	Heat Sink Performance	
			FLEX - FLEX/MITIGATING STRATEGIES/SFP		4
1, 2	11/26/2018	11/30/2018	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			EP - EP EXERCISE/PI VERIFICATION		2
1	12/03/2018	12/07/2018	IP 7111401	Exercise Evaluation	
1	12/03/2018	12/07/2018	IP 7111406	Drill Evaluation	
1	12/03/2018	12/07/2018	IP 7111408	Exercise Evaluation – Scenario Review	
1	12/03/2018	12/07/2018	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	12/10/2018	12/14/2018	IP 71124.02	Occupational ALARA Planning and Controls	

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