



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 1, 2017

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORT 05000317/2016006 AND 05000318/2016006)

Dear Mr. Hanson:

The U.S. Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Calvert Cliffs Nuclear Power Plant, 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 Calvert Cliffs Nuclear Power Plant, 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 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, 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 normal baseline inspections, the NRC will be performing Inspection Procedure 60855.1, "Operation of an ISFSI at Operating Plants", Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans," and Temporary Instruction 2515/192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition Design Vulnerabilities in Electric Power Systems," at your facility.

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 610-337-6953 with any questions you have regarding this letter.

Sincerely,

/RA/

Anthony Dimitriadis, Chief
Projects Branch 1
Division of Reactor Projects

Docket Nos. 50-317 and 50-318
License Nos. DPR-53 and DPR-69

Enclosure:
Calvert Cliffs Nuclear Power Plant
Inspection/Activity Plan

B. Hanson

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SUBJECT: ANNUAL ASSESSMENT LETTTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORT 05000317/2016006 AND 05000318/2016006) DATED MARCH 1, 2017

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OFFICE	RI/DRP	RI/DRP			
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Calvert Cliffs
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
			2/2EXAM - RETAKE EXAM		
1	02/06/2017	02/10/2017	U01967	FY18 CALVERT CLIFFS RE-TAKE EXAM (FEBRUARY 2017)	1
			HP - RADIATION SAFETY - INSTRUMENTS		
1,2	01/09/2017	01/13/2017	IP 71124.05	Radiation Monitoring Instrumentation	1
			HP - RADIATION SAFETY - RETS		
1,2	02/06/2017	02/10/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	1
			7111108P - U2 INSERVICE INSPECTION		
2	02/21/2017	03/03/2017	IP 7111108P	Inservice Inspection Activities - PWR	1
			HP - RADIATION SAFETY - RAD HAZ		
1,2	02/27/2017	03/03/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	1
1,2	02/27/2017	03/03/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	02/27/2017	03/03/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			71124.08 - RADWASTE		
1,2	04/10/2017	04/14/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	1
			50.59 - EVALS OF CHANGES, TESTS, & EXPERIMENTS		
1,2	04/17/2017	04/21/2017	IP 7111117T-5059scrm	screenings and/or applicability determinations	3
			TI-191 - FUKUSHIMA LESSONS-LEARNED		
1,2	04/17/2017	04/21/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	2
			7111107T - TRIENNIAL HEAT SINK		
1,2	06/12/2017	06/16/2017	IP 7111107T	Heat Sink Performance	1
			71152B - PI&R BIENNIAL		
1,2	07/31/2017	08/04/2017	IP 71152B	Problem Identification and Resolution	10
1,2	08/14/2017	08/18/2017	IP 71152B	Problem Identification and Resolution	
			EP - EP EXERCISE EVALUATION		
1,2	09/11/2017	09/15/2017	IP 7111401	Exercise Evaluation	4
1,2	09/11/2017	09/15/2017	IP 71151	Performance Indicator Verification	
			HP - RADIATION SAFETY - REMP		
1,2	10/02/2017	10/06/2017	IP 71124.07	Radiological Environmental Monitoring Program	1
1,2	10/02/2017	10/06/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1,2	10/02/2017	10/06/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			7111111B - CC REQUAL INSP WITH P/F RESULTS		
1,2	11/27/2017	12/01/2017	IP 7111111A	Licensed Operator Requalification Program - Annual Review	2
1,2	11/27/2017	12/01/2017	IP 7111111B	Licensed Operator Requalification Program	

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

Calvert Cliffs
Inspection / Activity Plan
01/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			HP - RADIATION SAFETY - ALARA		1
1,2	01/08/2018	01/12/2018	IP 71124.02	Occupational ALARA Planning and Controls	
			6/11EXAM - CALVERT CLIFFS INITIAL EXAM		4
1	07/09/2018	07/13/2018	U01959	FY18 CALVERT CLIFFS EXAM (JUNE 2018)	
1	08/06/2018	08/17/2018	U01959	FY18 CALVERT CLIFFS EXAM (JUNE 2018)	
			U1 ISI - UNIT 1 INSERVICE INSPECTION		2
1	02/19/2018	03/02/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			HP - RADIATION SAFETY - RAD HAZ		1
1,2	02/26/2018	03/02/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1,2	02/26/2018	03/02/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1,2	02/26/2018	03/02/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			HP - RADIATION SAFETY - AIRBORNE		1
1,2	04/23/2018	04/27/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			ISFSI - ISFSI LOADING CAMPAIGN INSPECTION		3
1,2	08/13/2018	08/17/2018	IP 60855	Operation Of An ISFSI	
1,2	08/13/2018	08/17/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			EP - EP PROGRAM INSPECTION		1
1,2	08/13/2018	08/17/2018	IP 7111402	Alert and Notification System Testing	
1,2	08/13/2018	08/17/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1,2	08/13/2018	08/17/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1,2	08/13/2018	08/17/2018	IP 71151	Performance Indicator Verification	
			7111121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)		6
1,2	09/17/2018	09/21/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
1,2	10/01/2018	10/05/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
			HP - RADIATION SAFETY - DOSIMETRY & PIV		1
1,2	12/03/2018	12/07/2018	IP 71124.04	Occupational Dose Assessment	
1,2	12/03/2018	12/07/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1,2	12/03/2018	12/07/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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