



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2015

Mr. George H. Gellrich
Site Vice President
Calvert Cliffs Nuclear Power Plant, LLC
Exelon Generation Company, LLC
1650 Calvert Cliffs Parkway
Lusby, MD 20657

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER
PLANT UNITS 1 AND 2 (REPORT 05000317/2014001 AND 05000318/2014001)**

Dear Mr. Gellrich:

On February 11, 2015, the U. S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Calvert Cliffs Nuclear Power Plant Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2014 through December 31, 2014. 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, Calvert Cliffs Unit 1 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance of Calvert Cliffs Unit 1 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., Green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The NRC determined the performance at Calvert Cliffs Unit 2 during the most recent quarter was within the Regulatory Response Column of the NRC's ROP Action Matrix because of all Green PIs and a finding of low to moderate safety significance (White) in the Emergency Preparedness cornerstone. Specifically, on October 27, 2014, the NRC issued a White Notice of Violation (NOV) and Assessment Follow-Up Letter (Agencywide Documents Access and Management System (ADAMS) Accession No. ML14297A547) to Calvert Cliffs Nuclear Power Plant for failing to maintain an adequate standard emergency action level scheme because inaccurate effluent radiation monitor thresholds were incorporated into Table R-1, "Effluent Monitor Classification Threshold," for Calvert Cliffs Unit 2. The NOV was retroactive to the second quarter of 2014 when the finding was originally documented. As discussed in the Assessment Follow-Up Letter, in addition to normal ROP baseline inspections, the NRC conducted a supplemental inspection for the White finding on site the week of February 2, 2015, in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area." The NRC will notify you of the results of this inspection via a separate inspection report which will be publicly available.

The enclosed inspection plan lists the inspections scheduled through June 30, 2016. 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. 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.

In accordance with Title 10 of the *Code of Federal Regulations*, Part 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 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 Daniel Schroeder at (610) 337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Ho K. Nieh
Director
Division of Reactor Projects

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

Enclosure: Calvert Cliffs Inspection/Activity Plan

cc w/encl: Distribution via ListServ

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DOCUMENT NAME: G:\DRP\BRANCH1\ROP Assessment\2014 ROP EOC\CC ROP-15 EOC Letter.docx
ADAMS ACCESSION NUMBER: **ML15058A295**

<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	DSchroeder/DLS	HNieh/HKN		
DATE	02/19/15	02/19/15	02/26/15		

OFFICIAL RECORD COPY

Calvert Cliffs
Inspection / Activity Plan
01/01/2015 - 06/30/2016

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			71124 - RADIATION SAFETY INSPECTION - INSTRUMENT		1
1, 2	01/12/2015	01/16/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			95001 - SUPPLEMENTAL INSPECTION FOR WHITE EP NOV		1
2	01/25/2015	01/30/2015	IP 95001	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	
			7111108P - U2 INSERVICE INSPECTION		1
2	02/23/2015	03/06/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			71124 - RADIATION SAFETY INSPECTION O		2
1, 2	03/02/2015	03/06/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/02/2015	03/06/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			71124.08 - RADWASTE		1
1, 2	04/06/2015	04/10/2015	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			71124 - RADIATION SAFETY INSPECTION - REMP		1
1, 2	06/15/2015	06/19/2015	IP 71124.07	Radiological Environmental Monitoring Program	
			71152B - PI&R - BIENNIAL		2
1, 2	09/21/2015	09/25/2015	IP 71152B	Problem Identification and Resolution	
1, 2	10/05/2015	10/09/2015	IP 71152B	Problem Identification and Resolution	
			EP - EP EXERCISE		5
1, 2	09/14/2015	09/18/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1, 2	09/14/2015	09/18/2015	IP 7111408	Exercise Evaluation - Scenario Review	
			7111111B - REQUAL INSP W/ P/F RESULTS		2
1, 2	11/16/2015	11/20/2015	IP 7111111B	Licensed Operator Requalification Program	
			CDBI - COMPONENT DESIGN BASIS INSPECTION		6
1, 2	11/02/2015	11/06/2015	IP 7111121	Component Design Bases Inspection	
1, 2	11/16/2015	11/20/2015	IP 7111121	Component Design Bases Inspection	
1, 2	11/30/2015	12/04/2015	IP 7111121	Component Design Bases Inspection	
			71124 - RADIATION SAFETY INSPECTION - DOSE		1
1, 2	11/02/2015	11/06/2015	IP 71124.04	Occupational Dose Assessment	
1, 2	11/02/2015	11/06/2015	IP 71151	Performance Indicator Verification	
			ISI - U1 INSERVICE INSPECTION		1
1	02/22/2016	03/06/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			BI - RADIOLOGICAL SAFETY - HAZARDS O		1
1, 2	02/29/2016	03/04/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/29/2016	03/04/2016	IP 71124.02	Occupational ALARA Planning and Controls	

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

Enclosure

Calvert Cliffs
Inspection / Activity Plan
01/01/2015 - 06/30/2016

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	Start	End			
			BI - RADIOLOGICAL SAFETY - HAZARDS O		1
1, 2	02/29/2016	03/04/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			71003 - U2 LR COMMITMENT INSPECTION - PHASE 2		1
2	05/09/2016	05/13/2016	IP 71003	Post-Approval Site Inspection for License Renewal	
			BI - RADIOLOGICAL SAFETY - AIRBORNE		1
1, 2	05/09/2016	05/13/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	05/09/2016	05/13/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	

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