UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION I
2100 RENAISSANCE BLVD., SUITE 100
KING OF PRUSSIA, PA 19406-2713

September 2, 2014

Mr. George H. Gellrich
Site Vice President
Calvert Cliffs Nuclear Power Plant
Exelon Generation Company, LLC
1650 Calvert Cliffs Parkway
Lusby, Maryland 20657-4702

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT UNITS 1 & 2 (REPORT 05000317/2014006 AND 05000318/2014006)

Dear Mr. Gellrich:

On August 13, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of your Calvert Cliffs Nuclear Power Plant (Calvert Cliffs) Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators in addition to inspection results and enforcement actions from July 1, 2013, through June 30, 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 Nuclear Power Plant Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Calvert Cliffs Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all performance indicators demonstrated that your performance was within the nominal, expected range (i.e, green). Therefore, the NRC plans to conduct Reactor Oversight Process baseline inspections at your facility.

Although plant performance was within the Licensee Response Column, the NRC has not yet finalized the significance of a Preliminary White Finding for Unit 2, "Inaccurate EAL Threshold Values Incorporated Into Site EAL Scheme Change,"(Apparent Violation 05000318/2014003-02) contained in Inspection Report 05000317/2014003 and 05000318/2014003 issued on August 8, 2014. The final safety significance determination may affect the NRC's assessment of plant performance and the enclosed inspection plan.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. 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 end-of-cycle performance review. In addition to baseline inspections, the NRC will perform Inspection Procedure (IP) IP 60855.1, "Operation of an Independent Spent Fuel Storage Installation (ISFSI) at Operating Plants," and IP 71003, "Post-Approval Site Inspection for License Renewal." 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.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The onsite component at your site has been scheduled for the week of September 8, 2014. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), 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 the NRC's Agencywide Document Access and Management 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) 337-5262 with any questions you have regarding this letter.

Sincerely,

/RA/

Daniel L. Schroeder, Chief
Reactor Projects Branch 1
Division of Reactor Projects

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

Enclosure: Inspection Plan

cc w/encl: Distribution via ListServ

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See next page

DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-15 Mid-Cycle Review\Branch 1\Calvert Cliffs\CC 2014 MC Letter - final.docx
ADAMS ACCESSION NUMBER: **ML14239A543**

☑ SUNSI Review		☑ Non-Sensitive ☐ Sensitive		☑ Publicly Available ☐ Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP			
NAME	ARosebrook/AAR	DSchroeder/DLS			
DATE	08/26/14	08/26/14			

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Letter to George Gellrich from Daniel Schroeder dated September 2, 2014

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT UNITS 1 & 2 (REPORT 05000317/2014006 AND 05000318/2014006)

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Calvert Cliffs
Inspection / Activity Plan
07/01/2014 - 12/31/2015

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			8/25EXAM	**- INITIAL OL EXAM**	**4**
1	07/28/2014	08/01/2014	U01886	FY14-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
1	08/25/2014	09/04/2014	U01886	FY14-CALVERT CLIFFS INITIAL OPERATOR LICENSING EXAM	
			71003	**- U1 LR COMMITMENTS PHASE 2 INSPEC**	**5**
1	07/07/2014	07/11/2014	IP 71003	Post-Approval Site Inspection for License Renewal	
			ISFSI	**- ISFSI LOADING INSPECTION**	**3**
1, 2	08/18/2014	08/22/2014	IP 60855	Operation Of An ISFSI	
1, 2	08/18/2014	08/22/2014	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			MODS	**- PERMANENT PLANT MODIFICATIONS**	**6**
1, 2	09/22/2014	09/26/2014	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	10/06/2014	10/10/2014	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			EP PROGR	**- EP PROGRAM INSPECTION**	**1**
1, 2	11/17/2014	11/21/2014	IP 7111402	Alert and Notification System Testing	
1, 2	11/17/2014	11/21/2014	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	11/17/2014	11/21/2014	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
			71124	**- RADIATION SAFETY RAD INSTRUMENTS**	**1**
1, 2	12/01/2014	12/05/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	12/01/2014	12/05/2014	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	12/01/2014	12/05/2014	IP 71151-OR01		
1, 2	12/01/2014	12/05/2014	IP 71151-PR01		
			71124	**- RADIATION SAFETY INSPECTION - INSTRUMENT**	**1**
1, 2	01/12/2015	01/16/2015	IP 71124.05	Radiation Monitoring Instrumentation	
			71124	**- RADIATION SAFETY INSPECTION**	**1**
1, 2	02/16/2015	02/20/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			7111108P	**- U2 INSERVISE INSPECTION**	**1**
2	02/23/2015	03/06/2015	IP 7111108P	Inservice Inspection Activities - PWR	
			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 - ALARA**	**1**
1, 2	04/27/2015	05/01/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			71124	**- RADIATION SAFETY INSPECTION - REMP**	**1**
1, 2	06/22/2015	06/26/2015	IP 71124.07	Radiological Environmental Monitoring 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
07/01/2014 - 12/31/2015

Unit Number	Planned Dates Start	End	Inspection Activity	Title	No. of Staff on Site
			EP - EP EXERCISE		**8**
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	
			PI&R - PI&R - BIENNIAL		**1**
1, 2	09/14/2015	09/18/2015	IP 71152B	Problem Identification and Resolution	
1, 2	09/28/2015	10/01/2015	IP 71152B	Problem Identification and Resolution	
			7111111B - REQUAL INSP W/ P/F RESULTS		**2**
1, 2	11/16/2015	11/20/2015	IP 7111111B	Licensed Operator Requalification Program	
			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	
			CDBI - COMPONENT DESIGN BASIS INSPECTION		**7**
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	

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