



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

February 28, 2018

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 05000317/2017006 AND 05000318/2017006, REPORT 05000317/2017402 AND 05000318/2017402, REPORT 05000317/2017501 AND 05000318/2017501)

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of Calvert Cliffs Nuclear Power Plant, Units 1 and 2 (Calvert Cliffs), reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017 through December 31, 2017. 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 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, 2019. 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. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In addition to normal baseline inspections, the NRC will be performing Inspection Procedure (IP) 81311, "Physical Security Requirements for Independent Spent Fuel Storage Installations (ISFSI), and IP 60855.1, "Operation of an ISFSI at Operating Plants," at your facility.

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).

B. Hanson

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Please contact me at 610-337-5012 with any questions you have regarding this letter.

Sincerely,

/RA/

Michelle Catts, Acting 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 Inspection Plan

cc: Distribution via ListServ

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DOCUMENT NAME: S:\ROP Assessment Meetings\ROP-18 EOC Review\Branch 1\Calvert Cliffs\Calvert Cliffs 2017 Annual Assessment Letter.docx
 ADAMS ACCESSION NUMBER: ML18053A694

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OFFICE	RI/DRP	RI/DRP			
NAME	A.Rosebrook	M.Catts			
DATE	2/15/18	2/20/18			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

Calvert Cliffs

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RADIATION SAFETY - ALARA						1
1, 2	01/08/2018	01/12/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
UNIT 1 INSERVICE INSPECTION						1
1	02/26/2018	03/09/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RADIATION SAFETY - RAD HAZ						1
1, 2	02/26/2018	03/02/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	02/26/2018	03/02/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
RADIATION SAFETY - AIRBORNE						1
1, 2	04/23/2018	04/27/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
CALVERT CLIFFS INITIAL OL EXAM						4
1, 2	07/09/2018	07/13/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	08/06/2018	08/17/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
EP PROGRAM INSPECTION						1
1, 2	08/13/2018	08/17/2018	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	08/13/2018	08/17/2018	IP 71114.03	000718	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	08/13/2018	08/17/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	08/13/2018	08/17/2018	IP 71151	001397	Performance Indicator Verification	
ACCESS CONTROL, PROTECTIVE STRATEGY, TSR						4
1, 2	09/10/2018	09/14/2018	IP 71130.02	000734	Access Control	
1, 2	09/10/2018	09/14/2018	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	09/10/2018	09/14/2018	IP 71130.14	000743	Review of Power Reactor Target Sets	
1, 2	09/10/2018	09/14/2018	IP 71151	001338	Performance Indicator Verification	
1, 2	09/10/2018	09/14/2018	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
1, 2	09/17/2018	09/21/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	10/01/2018	10/05/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	

IP 22 Inspection Activity Plan Report

Calvert Cliffs

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
RADIATION SAFETY - DOSIMETRY & PIV						1
1, 2	12/03/2018	12/07/2018	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	12/03/2018	12/07/2018	IP 71151	000746	Performance Indicator Verification	
RADIATION SAFETY - INSTRUMENTS						1
1, 2	01/14/2019	01/18/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
INSERVICE INSPECTION - UNIT 2						1
2	02/25/2019	03/08/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RADIATION SAFETY-RAD HAZ						1
1, 2	02/25/2019	03/01/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	02/25/2019	03/01/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	02/25/2019	03/01/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
RADWASTE						1
1, 2	04/01/2019	04/05/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
CYBER FULL IMP						2
1, 2	04/29/2019	05/03/2019	IP 71130.10P	000741	Cyber Security	
1, 2	05/13/2019	05/17/2019	IP 71130.10P	000741	Cyber Security	
MC&A						1
1, 2	06/10/2019	06/14/2019	IP 71130.11	000742	Material Control and Accounting (MC&A)	
FORCE-ON-FORCE PLANNING AND EXERCISES						8
1, 2	06/24/2019	06/28/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	07/15/2019	07/19/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
ISFSI OPERATIONAL INSPECTION						2
1, 2	08/05/2019	08/09/2019	IP 60855	001001	Operation Of An ISFSI	
1, 2	08/05/2019	08/09/2019	IP 60855.1	000590	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
ACCESS CONTROL, EQUIP PERF, TRAINING						3
1, 2	08/05/2019	08/09/2019	IP 71130.02	000734	Access Control	
1, 2	08/05/2019	08/09/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	

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

Calvert Cliffs

01/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
ACCESS CONTROL, EQUIP PERF, TRAINING						3
1, 2	08/05/2019	08/09/2019	IP 71130.07	000739	Security Training	
1, 2	08/05/2019	08/09/2019	IP 71151	001338	Performance Indicator Verification	
RADIATION SAFETY - REMP						1
1, 2	08/19/2019	08/23/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
TRIENNIAL FIRE PROTECTION						4
1, 2	09/09/2019	09/13/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1, 2	09/23/2019	09/27/2019	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
EP EXERCISE INSPECTION						5
1, 2	09/16/2019	09/20/2019	IP 71114.01	000716	Exercise Evaluation	
1, 2	09/16/2019	09/20/2019	IP 71151	001397	Performance Indicator Verification	
PI&R BIENNIAL						1
1, 2	10/21/2019	10/25/2019	IP 71152B	000747	Problem Identification and Resolution	
1, 2	11/04/2019	11/08/2019	IP 71152B	000747	Problem Identification and Resolution	
CC REQUAL INSP W/ P/F RESULTS						2
1, 2	11/18/2019	11/22/2019	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance - Annual	
1, 2	11/18/2019	11/22/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
Radiation Safety - RETS & PIV						1
1, 2	11/18/2019	11/22/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	11/18/2019	11/22/2019	IP 71151	000746	Performance Indicator Verification	