



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

March 4, 2019

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR THE CALVERT CLIFFS NUCLEAR
POWER PLANT, UNITS 1 AND 2 (REPORTS 05000317/2018006 AND
05000318/2018006)**

Dear Mr. Hanson,

The NRC has completed its end-of-cycle performance assessment of your Calvert Cliffs Nuclear Power Plant (Calvert Cliffs), Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2018 through December 31, 2018. 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 (Column 1) 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 Calvert Cliffs.

The enclosed inspection plan lists the inspections scheduled through December 31, 2020. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. Furthermore, all the inspections listed during the last 12 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's Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC's Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 610-337-5120 with any questions you have regarding this letter.

Sincerely,

/RA/

Erin Carfang, Chief
Reactor 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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR THE CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORTS 05000317/2018006 AND 05000318/2018006) DATED MARCH 4, 2019

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ADAMS ACCESSION NUMBER: ML19064B350

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OFFICE	RI/DRP	RI/DRP			
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IP 22 Inspection Activity Plan Report

Calvert Cliffs

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
RADIATION SAFETY - INSTRUMENTS						1
1, 2	02/04/2019	02/08/2019	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	
Calvert Cliffs Initial & Retake Exams						1
1, 2	03/04/2019	03/08/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	03/25/2019	03/29/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
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	
Radwaste						1
1, 2	05/06/2019	05/10/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
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 60855.1	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	
1, 2	08/05/2019	08/09/2019	IP 71130.07	000739	Security Training	

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

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Calvert Cliffs

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
ACCESS CONTROL, EQUIP PERF, TRAINING						3
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						4
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	
Radiation Safety - ALARA						1
1, 2	01/06/2020	01/10/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
Access Authorization and Fitness for Duty						1
1, 2	01/06/2020	01/10/2020	IP 71130.01	000733	Access Authorization	
1, 2	01/06/2020	01/10/2020	IP 71130.08	000740	Fitness For Duty Program	
1, 2	03/30/2020	04/03/2020	IP 71130.01	000733	Access Authorization	
1, 2	03/30/2020	04/03/2020	IP 71130.08	000740	Fitness For Duty Program	

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Calvert Cliffs

01/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
ISI - UNIT 1						1
1	02/24/2020	03/06/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
CALVERT CLIFFS INITIAL OL EXAM						5
1, 2	04/06/2020	04/10/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	05/04/2020	05/15/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
59.59 INSPECTION						3
1, 2	06/15/2020	06/19/2020	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
Radiation Safety - Airborne						1
1, 2	07/13/2020	07/17/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
HEAT SINK						1
1, 2	07/20/2020	07/24/2020	IP 71111.07T	000700	Heat Sink Performance -Triennial	
PROGRAM INSPECTION						3
1, 2	08/10/2020	08/14/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	08/24/2020	08/28/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
CALVERT CLIFFS EP PROGRAM INSPECTION						1
1, 2	08/17/2020	08/21/2020	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	08/17/2020	08/21/2020	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	08/17/2020	08/21/2020	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	08/17/2020	08/21/2020	IP 71151	001397	Performance Indicator Verification	
Access Control, Equip Perf, Training						3
1, 2	11/16/2020	11/20/2020	IP 71130.02	000734	Access Control	
1, 2	11/16/2020	11/20/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	11/16/2020	11/20/2020	IP 71130.07	000739	Security Training	
1, 2	11/16/2020	11/20/2020	IP 71151	001338	Performance Indicator Verification	
1, 2	11/16/2020	11/20/2020	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
Radiation Safety - Dose & PIV						1
1, 2	11/30/2020	12/04/2020	IP 71124.04	000729	Occupational Dose Assessment	
1, 2	11/30/2020	12/04/2020	IP 71151	000746	Performance Indicator Verification	

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