

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION I 475 ALLENDALE RD, STE 102 KING OF PRUSSIA, PENNSYLVANIA 19406-1415

March 1, 2023

David P. Rhoades Senior Vice President Constellation Energy Generation, LLC President and Chief Nuclear Officer (CNO) Constellation Nuclear 4300 Winfield Road Warrenville, IL 60555

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORTS 05000317/2022006 AND 05000318/2022006)

Dear David Rhoades:

The U.S Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Calvert Cliffs Nuclear Power Plant (Calvert Cliffs), Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2022 through December 31, 2022. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Calvert Cliffs Unit 2 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 Unit 2.

The NRC determined the performance at Calvert Cliffs Unit 1 during the most recent quarter was within the Regulatory Response Column (Column 2) of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter 0305, "Operating Assessment Program." This conclusion was based on a single inspection finding having low-to-moderate safety significance (i.e. White) in the Mitigating Systems Cornerstone originating in the third quarter of 2022, and all PIs within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 (Regulatory Response) Inputs." This inspection procedure is conducted to provide assurance that the root and contributing causes of risk significant performance issues are understood, the extent of condition and the extent of cause are

identified, and the corrective actions are prompt and sufficient to prevent recurrence. This inspection will be scheduled when you notify the NRC of your readiness.

The enclosed inspection plan lists the inspections scheduled through December 31, 2024. 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 response to the COVID-19 public health emergency (PHE), the NRC adjusted inspection plans and schedules to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities returning to normal onsite presence by our resident and region-based inspectors and completion of nominal baseline inspection samples. We continue to monitor site-specific conditions and, as discussed in our November 2, 2021, memo, "Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program" (Agencywide Documents Access and Management System (ADAMS) ML21295A302), it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC's critical safety mission.

For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <u>https://www.nrc.gov/about-nrc/covid-19/security-ep/</u>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

In addition to baseline inspections, the NRC plans to conduct Inspection Procedure 37060, "10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection," at your facility.

Beginning on January 1, 2023, the engineering inspection frequency will transition from a triennial (3-year) to a quadrennial (4-year) cycle. The new engineering inspection program will consist of a "Comprehensive Engineering Team Inspection (CETI)¹" and three "Focused Engineering Inspections (FEIs)" that will be performed in each quadrennial cycle. For the cycle beginning in 2023, the FEIs will be: "Fire Protection Team Inspection," "Commercial Grade

¹ Aspects of the Design Basis Assurance Inspection (DBAI), Evaluations of Changes, Tests, & Experiments, and Heat Sink inspections will be included in the new CETI inspection. Previously scheduled Evaluation of Changes, Tests, & Experiments and Heat Sink inspections have been cancelled and removed from the attached Report 22.

Dedication," and an engineering inspection that reviews age-related degradation and management².

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 <u>http://www.nrc.gov/reading-rm/adams.html</u> (the Public Electronic Reading Room).

Please contact Brice Bickett at (610) 337-5312 with any questions you have regarding this letter.

Sincerely,

Samuel Lee, Acting Director Division of Operating Reactor Safety

Docket Nos. 05000317 and 05000318 License Nos. DPR-53 and DPR-69

Enclosure: As stated

cc w/ encl: Distribution via LISTSERV®

² The Age-Related Degradation procedure is publicly available and the NRC plans to implement the first inspection of this type beginning in July 2023.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 (REPORTS 05000317/2022006 AND 05000318/2022006) DATED MARCH 1, 2023

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DOCUMENT NAME: https://usnrc.sharepoint.com/teams/ROPAssessmentMeetings/Shared Documents/ROP-23 EOC Review/Branch 3/AAL_CC_ROP23 and Report 22.docx ADAMS ACCESSION NUMBER: ML23059A044

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OFFICE	RI/DORS	RI/DORS	RI/DORS			
NAME	PFinney	BBickett	SLee			
DATE	2/23/2023	2/27/2023	2/28/2023			

OFFICIAL RECORD COPY

Site Inspection Activity Plan Calvert Cliffs

01/01/2023 - 12/31/2024

Unit	Start	End	Activity	CAC	Title Staff Cour	nt
Inserv	ice Inspection	- Calvert Cli	ffs Unit 2			1
2	2/21/2023	3/2/2023	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP - 7	71124.01 Rad	Hazards				1
1,2	2/27/2023	3/3/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
Access	s Control, AA,	FFD Sec Plar	n Review, PI, ISFSI-C	с		3
1,2	4/3/2023	4/7/2023	IP 71130.01	000733	Access Authorization	
1,2	4/3/2023	4/7/2023	IP 71130.02	000734	Access Control	
1,2	4/3/2023	4/7/2023	IP 71130.08	000740	Fitness For Duty Program	
1,2	4/3/2023	4/7/2023	IP 71130.09	001656	Security Plan Changes	
1,2	4/3/2023	4/7/2023	IP 71151	001338	Performance Indicator Verification	
1,2	4/3/2023	4/7/2023	IP 81311	000831	Physical Security Requirements for Independent Spent Fuel Storage Installations	
10 CFI	R 50.69 - Risk	Informed SS	C Implementation -	Calvert Clif	fs	4
1,2	4/10/2023	4/14/2023	IP 37060	000521	10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection	
1,2	4/24/2023	4/28/2023	IP 37060	000521	10 CFR 50.69 Risk-Informed Categorization and Treatment of Structures, Systems, and Components Inspection	
RP - 7	1124.05 Instru	uments				1
1,2	4/10/2023	4/14/2023	IP 71124.05	000729	Radiation Monitoring Instrumentation	
Comm	ercial Grade	Dedication- (Calvert Cliffs			3
1,2	5/22/2023	5/26/2023	IP 71111.21N.03	001808	Commercial Grade Dedication	
1,2	6/5/2023	6/9/2023	IP 71111.21N.03	001808	Commercial Grade Dedication	
FY23 (Calvert Cliffs I	nitial License	Exam			4
1,2	5/7/2023	5/12/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	6/4/2023	6/16/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Cyber	Security - Cal	vert Cliffs				4
1,2	8/21/2023	8/25/2023	IP 71130.10	000741	Cybersecurity	
EP PR	OGRAM INSP	ECTION				1
1,2	9/11/2023	9/15/2023	IP 71114.02	000717	Alert and Notification System Testing	
1,2	9/11/2023	9/15/2023	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	9/11/2023	9/15/2023	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1,2	9/11/2023	9/15/2023	IP 71114.05	000720	Maintenance of Emergency Preparedness	
	9/11/2023	9/15/2023	IP 71151	001397	Performance Indicator Verification	

RP - 71124.08 Rad Waste and 71151 PIV

1

Site Inspection Activity Plan

1,2	9/11/2023	9/15/2023	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
PI&R	Team Inspecti	on - CC				4
1,2	10/16/2023	10/20/2023	IP 71152B	000747	Problem Identification and Resolution	
1,2	10/30/2023	11/3/2023	IP 71152B	000747	Problem Identification and Resolution	
Calve	rt Cliffs Requa	l Inspection v	with P/F Results			2
1,2	11/26/2023	12/1/2023	IP 71111.11A	000703	Licensed Operator Requalification Program and Licensed Operator Performance	
1,2	11/26/2023	12/1/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
Inserv	vice Inspection	- Calvert Clif	ffs Unit 1			1
1	2/12/2024	2/23/2024	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP - 7	1124.01 Rad H	Hazards				1
1,2	2/12/2024	2/16/2024	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
Focus	ed Engineerin	g Inspection	- Aging Related			3
1,2	4/8/2024	4/12/2024	IP 71111.21N.04	001832	Age-Related Degradation	
1,2	4/22/2024	4/26/2024	IP 71111.21N.04	001832	Age-Related Degradation	
RP - 7	1124.03 Airbo	orne and 7112	24.04 Dose			1
1,2	5/6/2024	5/10/2024	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	5/6/2024	5/10/2024	IP 71124.04	000728	Occupational Dose Assessment	
FY24	Calvert Cliffs I	nitial License	Examination			4
1,2	4/15/2024	4/19/2024	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1,2	6/10/2024	6/14/2024	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
Acces	s Control, Prot	tective Strate	gy, TSR, SPR			4
1,2	6/24/2024	6/28/2024	IP 71130.02	000734	Access Control	
1,2	6/24/2024	6/28/2024	IP 71130.05	000737	Protective Strategy Evaluation	
1,2	6/24/2024	6/28/2024	IP 71130.09	001656	Security Plan Changes	
1,2	6/24/2024	6/28/2024	IP 71130.14	000743	Review of Power Reactor Target Sets	
1,2	6/24/2024	6/28/2024	IP 71151	001338	Performance Indicator Verification	
EP Ex	ercise Inspecti	on - Calvert C	Cliffs			5

EP Exercise Inspection - Calvert Cliffs						5
1,2	9/9/2024	9/13/2024	IP 71114.01	000716	Exercise Evaluation	
1,2	9/9/2024	9/13/2024	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1,2	9/9/2024	9/13/2024	IP 71151	001397	Performance Indicator Verification	
RP - 7	1124.06 RET	S and 71151 PI	V			1
1,2	9/9/2024	9/13/2024	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	