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

September 18, 2023

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

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 – CYBER SECURITY INSPECTION REPORT 05000317/2023401 AND 05000318/2023401

Dear David Rhoades:

On September 15, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Calvert Cliffs Nuclear Power Plant, Units 1 and 2 and discussed the results of this inspection with Elmer Hernandez, Director of Site Engineering, and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at http://www.nrc.gov/reading-rm/adams.html and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Glenn T. Dentel

Digitally signed by Glenn T. Dentel
Date: 2023.09.18 13:04:37 -04'00'

Glenn T. Dentel, Chief
Engineering Branch 2
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®

SUBJECT: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 – CYBER SECURITY INSPECTION REPORT 05000317/2023401 AND 05000318/2023401 DATED SEPTEMBER 18, 2023

DISTRIBUTION:
JRady, DORS
GDentel, DORS
BBickett, DORS
EEve, DORS
RClagg, DORS
KMooney, DORS
EDiPaolo, DORS, SRI
ATran, DORS, RI
CFragman, DORS, AA
JJosey, RI OEDO
RidsNrrPMCalvertCliffs Resource
RidsNrrDorlLpl1 Resource

DOCUMENT NAME: https://usnrc.sharepoint.com/teams/EngineeringBranch2/Shared Documents/Cyber Security/_Baseline Inspections - OUO_SRI/2023/Calvert Cliffs/Inspection Reports/CC Cyber Security 2023401.docx
ADAMS ACCESSION NUMBER: ML23261A605

x SUNSI Review		x Non-Sensitive ☐ Sensitive		x Publicly Available ☐ Non-Publicly Available	
OFFICE	RI/DORS	RI/DORS			
NAME	JRady	GDentel			
DATE	9/18/2023	9/18/2023			

OFFICIAL RECORD COPY

U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers:	05000317 and 05000318
License Numbers:	DPR-53 and DPR-69
Report Numbers:	05000317/2023401 and 05000318/2023401
Enterprise Identifier:	I-2023-401-0039
Licensee:	Constellation Energy Generation, LLC
Facility:	Calvert Cliffs Nuclear Power Plant, Units 1 and 2
Location:	Lusby, MD
Inspection Dates:	August 21, 2023 to September 15, 2023
Inspectors:	J. Rady, Senior Reactor Inspector M. Patel, Senior Reactor Inspector E. Chen, Reactor Inspector L. Manning, Information Systems Security Analyst B. Barro, Cyber Security Contractor
Approved By:	Glenn T. Dentel, Chief Engineering Branch 2 Division of Operating Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a cyber security inspection at Calvert Cliffs Nuclear Power Plant, Units 1 and 2, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to https://www.nrc.gov/reactors/operating/oversight.html for more information.

List of Findings and Violations

No findings or violations of more than minor significance were identified.

Additional Tracking Items

None.

INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

SAFEGUARDS

71130.10 - Cybersecurity

Inspections were conducted using the applicable portions of the IPs in effect at the beginning of the inspection unless otherwise noted. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2201, "Security Inspection Program for Commercial Nuclear Power Reactors." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

Cybersecurity (1 Sample)

(1) The following IP sections were completed and constitute completion of 1 sample:
- 03.01, "Review Ongoing Monitoring and Assessment Activities"
- 03.02, "Verify Defense-in-Depth Protective Strategies"
- 03.03, "Review of Configuration Management Change Control"
- 03.04, "Review of Cyber Security Program"
- 03.05, "Evaluation of Corrective Actions"

In addition to the systems and programs that have been added or modified since the last cyber security inspection, the following systems were selected for inspection.
- System 12, Salt Water Cooling (Safety) - Unit 1
- System 41, Chemical Volume and Control System (Important-to-Safety) – Unit 2
- System 45, Digital Feedwater (Important-to-Safety) - Common
- System 52, Safety Injection System (Safety) - Unit 1
- System 79, Process Radiation Monitoring (Safety) - Unit 2
- System 85, Plant Access and Surveillance (Security) - Common

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

The inspectors verified no proprietary information was retained or documented in this report.

- On September 15, 2023, the inspectors presented the cyber security inspection results to Elmer Hernandez, Director of Site Engineering, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.10	Corrective Action Documents Resulting from Inspection	IR 04697825		
		IR 04698137		
		IR 04698140		
		IR 04698161		
		IR 04698172		
		IR 04698297		
		IR 04698405		
		IR 04698406		
		IR 04698409		
		IR 04698410		
		IR 04698412		
		IR 04698495		
		IR 04698512		
	Miscellaneous	1DNS0C218PA1	Port Aggregator Control Assessment	Dated 8/23/2023
		CAL-1PDNFWA1	Unit 1 A-Channel Control System Firewall Baseline Documents	Dated 8/21/2023
		SCS-CSTDF-203172.01	Security System Cyber Factory Acceptance Test	Revision 1
		SCS-STR-203172	Security System Test Report	Revision 0
	Procedures	CC-AA-600-101	Cyber Security Plan for Exelon Nuclear Constellation Energy Nuclear Group	Revision 1
		CC-AA-600-103	Cyber Security Plan Technical and Operational Controls	Revision 1
		CC-AA-603	Nuclear Cyber Security Defensive Architecture Per Requirements of 10 CFR 73.54	Revision 5
		CC-AA-604-100	Critical Digital Asset Logical Access Controls	Revision 0
		CC-AA-606	Cyber Security Incident Response Process	Revision 3
		IT-AA-207-100	Vulnerability Scanning and Assessment of Critical Digital Assets	Revision 6
		IT-AA-213-1000	Scanning for Rogue Wireless Access Points	Revision 6
		IT-AA-265	Critical Digital Asset Threat Management	Revision 8

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		IT-AA-603-1000	Cyber Security Defensive Architecture Administrative Guidelines	Revision 6
		IT-AA-603-1007	Cyber Security Defensive Architecture Intrusion Detection Functional Testing	Revision 2
		MA-AA-716-235	Control of Critical Digital Asset Portable Media and Portable Devices	Revision 8