



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION I
475 ALLENDALE RD, STE 102
KING OF PRUSSIA, PENNSYLVANIA 19406-1415

April 8, 2025

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: CALVERT CLIFFS NUCLEAR POWER PLANT, UNITS 1 AND 2 – SECURITY
BASELINE INSPECTION REPORT 05000317/2025401 AND 05000318/2025401

Dear David Rhoades:

On April 3, 2025, 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 Peter Moodie, Site Vice President, 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* (10 CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Brice A. Bickett, Chief
Security, Emergency Preparedness and Incident
Response Branch
Division of Radiological Safety & Security

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

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

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 BASELINE INSPECTION REPORT 05000317/2025401 AND 05000318/2025401
 DATED APRIL 8, 2025

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Numbers: 05000317 and 05000318

License Numbers: DPR-53 and DPR-69

Report Numbers: 05000317/2025401 and 05000318/2025401

Enterprise Identifier: I-2025-401-0016

Licensee: Constellation Energy Generation, LLC

Facility: Calvert Cliffs Nuclear Power Plant, Units 1 and 2

Location: Lusby, MD

Inspection Dates: March 31, 2025 to April 03, 2025

Inspectors: K. Hussar, Senior Physical Security Inspector
S. McCarver, Physical Security Inspector
C. Davis, Physical Security Inspector

Approved By: Brice A. Bickett, Chief
Security, Emergency Preparedness and Incident Response Branch
Division of Radiological Safety & Security

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a security baseline 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

71130.02 - Access Control

The inspectors evaluated the access control program through completion of the following inspection elements:

Access Control (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 8 Requirements (02.06 a, 02.07 a, 02.08 a - e, i)
 - Tier III: 1 Requirement (02.09)

71130.04 - Equipment Performance, Testing, and Maintenance

The inspectors evaluated the security equipment testing and maintenance program through completion of the following inspection elements:

Equipment Performance, Testing, and Maintenance (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 6 Requirements (02.09 a, 02-11 a - d, 02.12 a)
 - Tier III: All Requirements

71130.07 - Security Training

The inspectors evaluated the security training program through completion of the following inspection elements:

Security Training (1 Sample)

- (1)
 - Tier I: All Requirements
 - Tier II: 10 Requirements (02.05 a - d, 02.06 a - b, 02.07 a, 02.08 a, 02.09 a - b)
 - Tier III: 7 Requirements (02.10, 02.11 a, 02.12 a - b, 02.13 a - c)

71130.09 - Security Plan Changes

The inspectors evaluated the security plan changes through completion of the following inspection elements:

Security Plan Changes (1 Sample)

- (1) Since the last NRC baseline inspection of this program area, Security Plan Revision 18 was implemented. Based on Calvert Cliffs' evaluation, and in accordance with 10 CFR 50.54(p)(2), the change resulted in no decrease in safeguards effectiveness of the security plan and the revised security plan change continues to meet the requirements of 10 CFR 73.55(b). The inspectors conducted a review of the security plan change to evaluate for a potential decrease in safeguards effectiveness of the security plan; however, this review does not constitute formal NRC approval of this change. Therefore, the change remains subject to future NRC inspection in their entirety.

OTHER ACTIVITIES – BASELINE

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

PP01: Protected Area Security Equipment Performance Index Sample (IP Section 02.17) (1 Sample)

- (1) April 01, 2024 through December 31, 2024

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On April 3, 2025, the inspectors presented the security baseline inspection results to Peter Moodie, Site Vice President, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.02	Corrective Action Documents	04785121 04787099 04799252 04806180 04831591		
	Procedures	SY-AA-101-106	Control and Classification of Safeguards Information (SGI) and Sensitive Unclassified Non-Safeguards Information (SUNSI)	Revision 23
		SY-AA-101-110	Security Sealing Operations	Revision 14
		SY-AA-101-112	Constellation Security Search Processes	Revision 39
		SY-AA-101-117	Processing and Escorting of Personnel and Vehicles	Revision 34
		SY-AA-101-118	Control of Badges	Revision 11
		SY-AA-101-120	Control of Security Access Control Devices	Revision 10
		SY-AA-101-124	Operation of the Security Control Centers	Revision 16
		SY-CA-101-119 OCA	Material Search for Entry Into PA	Revision 1
71130.04	Corrective Action Documents	04783465 04785107 04785991 04786594 04806906 04828958		
	Corrective Action Documents Resulting from Inspection	04852347 04851926 04851845		
	Procedures	SY-AA-101-122	Testing Security Equipment	Revision 23
		SY-AA-101-145	Security Standards Of Conduct	Revision 19
		SY-AA-150-103-F-01	Record of Semi-Annual Functionality and Accuracy Test and Firearms Maintenance	Revision 1
		SY-CA-101-122	Security System Testing	Revision 10
		SY-CA-1015-F-02	Quarterly Duty Firearms Inspection/Cleaning Form	Revision 6

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.07	Corrective Action Documents	04797841		
	Corrective Action Documents Resulting from Inspection	04820974		
	Miscellaneous	IQT #16	Determine Amount of Force to Prevent an Unauthorized Act	Revision 6
		IQT #8	Conduct Security Patrols	Revision 7
		Lesson Plan 1108	CCNPP Use of Force	01/09/2025
		N-AN-SY-LP-4301X	Annual Written Examination	
	Procedures	SY-AA-150-101-F-15	Weapons Familiarization Training Worksheet	Revision 1
		SY-AA-150-101-F-44	Weapons Familiarization Training	Revision 1
		SY-AA-150-104	Constellation Nuclear Security OJT Program	Revision 3
		SY-AA-150-105-F-01	Physical Exertion Information	Revision 1
		SY-CA-101-145	Security Standards of Conduct	Revision 19
		SY-CA-101-501	Defensive Strategy	Revision 18
	Self-Assessments		2025 Security Training Self-Assessment Report	02/21/2025
		NOSA-CAL-23-01	Security Programs Audit Report 2023	02/08/2023
		NOSA-CAL-25-01	Security Programs Audit Report 2025	02/25/2025
71130.09	Corrective Action Documents	AR 04830106		
	Miscellaneous		Calvert Cliffs Nuclear Power Plant Security Plan, Training and Qualification Plan, Safeguards Contingency Plan, and Independent Spent Fuel Storage Installation Security Program (SGI)	Revision 18
71151	Procedures	LS-AA-2160	Monthly Data Elements for NRC ROP Indicator – Protected Area Security Equipment Performance Index	Revision 5
		SY-AA-101-155	Security Events and Nuclear Regulatory Commission Performance Indicators	Revision 11