



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

June 10, 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: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 – SECURITY  
BASELINE INSPECTION REPORT 05000277/2025401 AND 05000278/2025401

Dear David Rhoades:

On May 22, 2025, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Peach Bottom Atomic Power Station, Units 2 and 3, and discussed the results of this inspection with Martin A. Bonifanti, 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* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

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

Docket Nos. 05000277 and 05000278  
License Nos. DPR-44 and DPR-56

Enclosure:  
As stated

cc w/ encl: Distribution via LISTSERV

D. Shearer, Director, Bureau of Radiation Protection,  
PA Department of Environmental Protection

B. Fuller, Bureau of Radiation Protection,  
PA Department of Environmental Protection

G. Donahue, Director, Emergency Preparedness Planning,  
Maryland Department of the Environment

R. Moyer, Manager Site Security

S. Volmer, Manager Site Security Operations

SUBJECT: PEACH BOTTOM ATOMIC POWER STATION, UNITS 2 AND 3 – SECURITY  
 BASELINE INSPECTION REPORT 05000277/2025401 AND 05000278/2025401  
 DATED JUNE 10, 2025

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 05000277 and 05000278

License Numbers: DPR-44 and DPR-56

Report Numbers: 05000277/2025401 and 05000278/2025401

Enterprise Identifier: I-2025-401-0021

Licensee: Constellation Energy Generation, LLC

Facility: Peach Bottom Atomic Power Station, Units 2 and 3

Location: Delta, PA

Inspection Dates: May 19, 2025 to May 22, 2025

Inspectors: K. Hussar, Senior Physical Security Inspector  
C. Davis, Physical Security Inspector  
J. Edwards, Physical Security Inspector  
G. Stock, Reactor Operations Engineer

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

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a security baseline inspection at Peach Bottom Atomic Power Station, Units 2 and 3, 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: All Requirements  
Tier III: 1 Requirement (02.10)

### 71130.05 - Protective Strategy Evaluation

The inspectors evaluated the licensee's protective strategy through completion of the following procedure elements:

#### Protective Strategy Evaluation (2 Samples)

- (1) Tier I: All Requirements  
Tier II: 18 Requirements (02.05 a, 02.06 a, c, d, f - n, 02.07 a - e)  
Tier III: All Requirements
- (2) The Inspectors evaluated the Security Performance Evaluation Program.

### 71130.09 - Security Plan Changes

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

#### Security Plan Changes (1 Sample)

- (1) Since the last NRC baseline inspection of this program area, Security Plan Revision 24 was implemented. Based on Constellation's evaluation, and in accordance with 10 CFR 50.54(p)(2), the change(s) resulted in no decrease in safeguards effectiveness of the security plan and the revised security plan change(s) continues to meet the requirements of 10 CFR 73.55(b). The inspector(s) conducted a review of the security plan change(s) to evaluate for a potential decrease in

safeguards effectiveness of the security plan; however, this review does not constitute formal NRC approval of those change(s). Therefore, the change(s) remain subject to future NRC inspection in their entirety.

#### 71130.14 - Review of Power Reactor Target Sets

The inspectors evaluated the Security Target Set Program. The following elements were evaluated:

#### Review of Power Reactor Target Sets (1 Sample)

- (1) 03.01, 03.02 (a-f), 03.03, 03.04 (a-b), 03.05

### **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) September 1, 2024 through April 30, 2025

### **INSPECTION RESULTS**

No findings were identified.

### **EXIT MEETINGS AND DEBRIEFS**

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

- On May 22, 2025, the inspectors presented the security baseline inspection results to Martin A. Bonifanti, Site Vice President, and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71130.02	Procedures	SY-AA-101-117	Processing and Escorting of Personnel and Vehicles	Revision 34
		SY-AA-101-120	Control of Security Access Control Devices	Revision 10
		SY-PB-101-102-F-01	Protected and Vital Area Access Log	Revision 1
		SY-PB-101-112-1001	Search Processes	Revision 12
		SY-PB-101-124-1001	Security Control Center Operations	Revision 18
71130.05	Corrective Action Documents	04809815		
		04810435		
		04844361		
		04804156		
		04805016		
	Corrective Action Documents Resulting from Inspection	04867793		
	Procedures	SY-AA-101-103	Observation and Inspection of Security Barriers	Revision 14
		SY-AA-101-109	Response to Contingency Events	Revision 17
		SY-AA-101-116	Conducting Patrols	Revision 18
		SY-AA-500-127	Safety/Security Interface	Revision 7
		SY-PB-101-116-1001	Security Patrols	Revision 19
		SY-PB-101-501	Site Protective Strategy	Revision 13
Self-Assessments	NOSA-PEA-23-01	2023 Security Programs Audit Report	02/22/2023	
	NOSA-PEA-25-01	2025 Security Programs Audit Report	02/19/2025	
71130.09	Miscellaneous		Physical Security Plan	Revision 24
71130.14	Corrective Action Documents	4848183		
	Corrective Action Documents	4867215		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Resulting from Inspection			
	Engineering Changes	EC 639893	Evaluate Beyond Design Basis Postulated ESW Pipe Break	0
	Procedures	SY-AA-101-502	Target Set Analysis and Development	9
71151	Procedures	SY-AA-101-155	Security Events and Nuclear Regulatory Commission Performance Indicators	Revision 11