



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 2, 2024

John A. Krakuszeski
Site Vice President
Duke Energy Progress, LLC
8470 River Rd. SE
M/C BNP001
Southport, NC 28461

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT UNITS 1 & 2 – SECURITY BASELINE
INSPECTION REPORT 05000324/2024420 AND 05000325/2024420

Dear John A. Krakuszeski:

On June 6, 2024, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Brunswick Steam Electric Plant Units 1 & 2 and discussed the results of this inspection with you 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

A handwritten signature in black ink that reads "Jefferson K. Clark".

Signed by Clark, Jefferson
on 07/02/24

Jefferson K. Clark, Chief
Security Performance Evaluation Branch
Division of Security Operations

Docket Nos. 05000324 and 05000325
License Nos. DPR-62 and DPR-71

Enclosure:
As stated

cc:
Sam Santaniello
Director Nuclear Plant Security

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

Docket Numbers: 05000324 and 05000325

License Numbers: DPR-62 and DPR-71

Report Numbers: 05000324/2024420 and 05000325/2024420

Enterprise Identifier: I-2024-420-0006

Licensee: Duke Energy Progress, LLC

Facility: Brunswick Steam Electric Plant Units 1 & 2

Location: Southport, NC

Inspection Dates: May 13, 2024 to June 06, 2024

Inspectors: C. Roundtree, Team Leader, NSIR
T. Barry, Sr. Physical Security Inspector, NSIR
C. Bustamante, Physical Security Inspector, NSIR
J. Wallo, Senior Physical Security Inspector, RII

Approved By: Jefferson K. Clark, Chief
Security Performance Evaluation Branch
Division of Security Operations

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a security baseline inspection at Brunswick Steam Electric Plant Units 1 & 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

71130.03 - Contingency Response - Force-On-Force Testing

Contingency Response - Force-On-Force Testing (1 Sample)

- (1) NRC inspectors completed the Contingency Response – Force-on-Force (FOF) Testing inspection procedure by evaluating the licensee's performance in implementing the physical protection program to detect, assess, interdict, and neutralize threats up to, and including, the design basis threat of radiological sabotage. Two NRC-evaluated FOF exercises were conducted for the evaluation.

REPORT ATTACHMENTS

Supplemental Information for the report is considered Safeguards Information and is located separately within the NRC's Safeguards Information Local Area Network and Electronic Safe database (SLES), under NS126139.

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On June 6, 2024, the inspectors presented the security baseline inspection results to John A. Krakuszeski and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71130.03	Corrective Action Documents Resulting from Inspection	02516169-02			
		02516169-03			
		02516169-04			
		02516169-05			
		02516169-06			
		02516169-07			
		02516169-09			
		02516169-10			
		02516169-11			
		02516169-12			
		02516169-13			
		02518146			
		02518432-03			
		02518432-04			
		02518432-05			
		02518432-06			
		02518432-07			
		02518432-08			
		02518432-09			
		02518432-10			
		02518432-11			
		02518446-03			
		02518446-04			
		02518446-05			
		02518446-06			
		02518447			
		02518459			
		02518512			
		Procedures		Duke Energy Progress - Brunswick Physical Security Plan	Revision 16 April 10, 2023

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			CST Vulnerability to Weapons Fire Report (U1)	12/16/2018
			Brunswick Nuclear Plant Blast Security Calculation and Documentation Review	Revision 20 Dated 12/2020
			Fleet Safariland 50 FT Tower & BRE MSD	Dated 1- 2020
			Brunswick Nuclear Security Table of Security Personnel	Dated 3/14/2024
		AD-SY-BNP-0205	SOCA/EWAS Operation and Additional Measures	Revision 1 Dated 08/18/2021
		AD-SY-BNP-0254	[BPN] Protective Strategy	Revision 5 3/14/2024
		AD-SY-BNP-0251	Contingency Response	Revision 3 Dated 07/25/2023
		Bravo Pool EC 83863	Spent Fuel Allowable Hole Size	Revision 0
		Brunswick Nuclear Plant Protective Strategy Brief	Protective Strategy Brief	01/10/2024
		CSD-SY-BNP- 0130-02	{BNP} Formal Target Sets	Revision 1 12/01/2022

BRUNSWICK STEAM ELECTRIC PLANT UNITS 1 & 2 – SECURITY BASELINE INSPECTION REPORT
05000324/2024420 AND 05000325/2024420 DATE July 2, 2024

DISTRIBUTION:

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CBustamante, NSIR/DSO/SPEB

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OFFICE	NSIR/DSO/SPEB /ETA	R-II/DRS/PSB	NSIR/DSO/SPEB/ETA	NSIR/DSO/SPEB /ETA
NAME	TBarry <i>TB</i>	JWallo <i>JW</i>	CRoundtree <i>CR</i>	JClark <i>JC</i>
DATE	Jul 1, 2024	Jul 2, 2024	Jul 2, 2024	Jul 2, 2024

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