



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

July 3, 2024

Edward Pigott
Site Vice President
Duke Energy Carolinas, LLC
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: MCGUIRE NUCLEAR STATION – SECURITY BASELINE
INSPECTION REPORT 05000369/2024401 AND 05000370/2024401

Dear Edward Pigott:

On June 27, 2024, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at McGuire Nuclear Station 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 cursive script that reads "Jannette Worosilo".

Signed by Worosilo, Jannette
on 07/03/24

Jannette G. Worosilo, Chief
Plant Support Branch
Division of Reactor Safety

Docket Nos. 05000369 and 05000370
License Nos. NPF-9 and NPF-17

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: MCGUIRE NUCLEAR STATION – SECURITY BASELINE INSPECTION
 REPORT 05000369/2024401 AND 05000370/2024401 DATED JULY 3, 2024

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

Docket Numbers: 05000369 and 05000370

License Numbers: NPF-9 and NPF-17

Report Numbers: 05000369/2024401 and 05000370/2024401

Enterprise Identifier: I-2024-401-0053

Licensee: Duke Energy Carolinas, LLC

Facility: McGuire Nuclear Station

Location: Huntersville, NC

Inspection Dates: June 24, 2024 to June 27, 2024

Inspectors: R. Patterson, Senior Physical Security Inspector
J. Tornow, Physical Security Inspector
R. Womack, Senior Physical Security Inspector

Approved By: Jannette G. Worosilo, Chief
Plant Support Branch
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a security baseline inspection at McGuire Nuclear Station, 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: 02.06 a - d, 02.07 a, 02.08 a, b, e
Tier III: (02.09)

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: 02.05 a, 02.06 a, d, e, h, i, j, k, l, m, n, 02.07 a, b, c
 - Tier III: 02.08, 02.09 a, b and 02.10 a
- (2) Observed a licensee-conducted Force-on-Force exercise.

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 inspection of this program area, McGuire Nuclear Station Physical Security Plan, Revision 30, was implemented based on your determination, in accordance with 10 CFR 50.54(p)(2), that the changes resulted in no decrease in safeguards effectiveness of the security plan, and that the revised security plan continues to meet the requirements of 10 CFR 73.55(b). The inspectors conducted a

review of the security plan changes to evaluate for potential decrease in safeguards effectiveness of the security plan. However, this review does not constitute formal NRC approval of the changes. Therefore, these changes remain 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) July 2023, through May 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 June 27, 2024, the inspectors presented the security baseline inspection results to Edward Pigott and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71130.02	Corrective Action Documents	02475635		06/09/2023	
		02479496		07/17/2023	
	Procedures	AD-SY-ALL-0240	SECURITY KEY AND LOCK CONTROLS	Rev. 3	
		AD-SY-MNS-0205	SOCA/EWAS OPERATIONS AND ADDITIONAL MEASURES	Rev. 4	
		CSD-SY-MNS-0215-01	MNS SECURITY SEARCH AND ENTRY PROCESSING	Rev. 007	
71130.05	Calculations		McGuire Security Calculations Review and Petal Diagram	June 2021	
	Corrective Action Documents	02457301, 02452342, 02452340, 02452186, 02443647			
	Corrective Action Documents Resulting from Inspection	02520718, 02520720, 02520721, 02520728			
	Miscellaneous			Letter of Agreement (LOA) Charlotte Mecklenburg Police Department	May, 15, 2024
		LP-SY-ADV-0500		Basic Adversary Training Adversary Controller/Controller	Revision 4
		LP-SY-ADV-0502		Conducting the Adversary Vulnerability Assessment	Revision 2
		LP-SY-ADV-0503		Assessing and Reducing Delay Barriers	Revision 2
		LP-SY-ADV-0504		Close Quarters Battle	Revision 0
		LP-SY-ADV-0505		Introduction to Adversary Operations	Revision 0
		LP-SY-ADV-0506		Adversary Fire and Maneuver	Revision 2
		LP-SY-ALL- 0559		Controller/Evaluator Training	Revision 12
	Procedures	TG-SY-ADV-0500		Composite Adversary Force Operations and Training Guide	Revision 7
		AD-SY-ALL-0120		Safety/Security Interface Processes	Revision 3
		AD-SY-ALL-0560		Security Drill and Exercise Program	Revision 11
	Self-Assessments	2022-MNS_NGO-SEC-01		Nuclear Oversight - Audit, McGuire and Nuclear General Office, Physical Security	
		AD-PI-ALL-0300,		Self Assessment and Benchmark Programs, Self-	Revision 7

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		Attachment 2	Assessment Report	
71130.09	Procedures	AD-SY-ALL-0101	SECURITY PLAN REVISION PROCESS	Rev. 4.0
71151	Procedures	AD-PI-ALL-0700	PERFORMANCE INDICATORS	Rev. 6