



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

March 11, 2025

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

SUBJECT: ANNUAL ASSESSMENT LETTER FOR MCGUIRE NUCLEAR STATION -  
UNITS 1 AND 2 (NRC INSPECTION REPORT 05000369/2024006 AND  
05000370/2024006)

Dear Edward Pigott:

The NRC has completed its end-of-cycle performance assessment of McGuire Nuclear Station, Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2024, through December 31, 2024. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety. The baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at McGuire Nuclear Station, Units 1 and 2, during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The enclosed inspection plan lists the inspections scheduled through December 31, 2026. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes.

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Please contact me at 404-997-4664 with any questions you have regarding this letter.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. Williams, Jr.', with a stylized flourish at the end.

Signed by Williams, Robert  
on 03/11/25

Robert E. Williams, Jr., Chief  
Projects Branch 1  
Division of Operating Reactor Safety

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

Enclosure:  
McGuire Inspection Plan  
(3/1/2025 – 12/31/2026)

cc: Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR MCGUIRE NUCLEAR STATION -  
UNITS 1 AND 2 (NRC INSPECTION REPORT 05000369/2024006 AND  
05000370/2024006) DATED MARCH 11, 2025

**DISTRIBUTION:**

R2 ACES

RIDSNNRRDRO Resource

RIDSNNRRPMMcGuire Resource

ROPassessment Resource

**ADAMS ACCESSION NUMBER: ML25065A268**

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OFFICE	RII/DORS	RII/DORS			
NAME	J. Seat	R. Williams			
DATE	03/07/25	03/11/25			

**OFFICIAL RECORD COPY**

# Site Inspection Activity Plan

## McGuire

03/01/2025 - 12/31/2026

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS - MCG</b>						5
1,2	3/3/2025	3/7/2025	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>UNIT 1 IN-SERVICE INSPECTION</b>						1
1	4/7/2025	4/11/2025	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP OCCUPATIONAL RAD SAFETY AND TRANSPORTATION BASELINE INSPECTION</b>						2
1,2	4/7/2025	4/11/2025	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	4/7/2025	4/11/2025	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
1,2	4/7/2025	4/11/2025	IP 71151	000746	Performance Indicator Verification	
<b>SECURITY BASELINE INSPECTION</b>						2
1,2	6/2/2025	6/5/2025	IP 71130.01	000733	Access Authorization	
1,2	6/2/2025	6/5/2025	IP 71130.02	000734	Access Control	
1,2	6/2/2025	6/5/2025	IP 71130.08	000740	Fitness-For-Duty Program	
1,2	6/2/2025	6/5/2025	IP 71130.09	001656	Security Plan Changes	
1,2	6/2/2025	6/5/2025	IP 71151	001338	Performance Indicator Verification	
<b>RP PUBLIC RAD SAFETY BASELINE INSPECTION</b>						2
1,2	6/9/2025	6/13/2025	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1,2	6/9/2025	6/13/2025	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1,2	6/9/2025	6/13/2025	IP 71151	000746	Performance Indicator Verification	
<b>EMERGENCY PREPAREDNESS EXERCISE INSPECTION</b>						5
1,2	8/25/2025	8/29/2025	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1,2	8/25/2025	8/29/2025	IP 71114.07	000722	Exercise Evaluation - Hostile Action (HA) Event	
1,2	8/25/2025	8/29/2025	IP 71151	001397	Performance Indicator Verification	
<b>UNIT 2 IN-SERVICE INSPECTION +SG</b>						1
2	3/30/2026	4/10/2026	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>PROBLEM IDENTIFICATION AND RESOLUTION</b>						4
1,2	4/27/2026	5/1/2026	IP 71152B	000747	Problem Identification and Resolution	
1,2	5/11/2026	5/15/2026	IP 71152B	000747	Problem Identification and Resolution	
<b>FOCUSED ENGINEERING INSPECTION (CGD)</b>						3
1,2	5/18/2026	5/22/2026	IP 71111.21N.03	001808	Commercial Grade Dedication	
1,2	6/1/2026	6/5/2026	IP 71111.21N.03	001808	Commercial Grade Dedication	
<b>SECURITY BASELINE INSPECTION</b>						1
1,2	6/8/2026	6/11/2026	IP 71130.02	000734	Access Control	
1,2	6/8/2026	6/11/2026	IP 71130.09	001656	Security Plan Changes	

# Site Inspection Activity Plan

1,2	6/8/2026	6/11/2026	IP 71151	001338	Performance Indicator Verification	
<b>CYBER SECURITY INSPECTION</b>						2
1,2	6/22/2026	6/26/2026	IP 71130.10	000741	Cybersecurity	
<b>MCGUIRE INITIAL LICENSE EXAM</b>						4
1,2	6/7/2026	6/12/2026	OV	000956	FB-OR-Onsite Validation Of Initial License Examination (OV)	
1,2	7/12/2026	7/24/2026	EXAD	000500	FB-OR-Initial License Exam Administration (EXAD)	
<b>UNIT 1 IN-SERVICE INSPECTION +SG</b>						1
1	9/14/2026	9/25/2026	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP PUBLIC RAD SAFETY BASELINE INSPECTION</b>						2
1,2	9/14/2026	9/18/2026	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	9/14/2026	9/18/2026	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	9/14/2026	9/18/2026	IP 71124.04	000728	Occupational Dose Assessment	
1,2	9/14/2026	9/18/2026	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1,2	9/14/2026	9/18/2026	IP 71151	000746	Performance Indicator Verification	
1,2	9/28/2026	10/2/2026	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1,2	9/28/2026	10/2/2026	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1,2	9/28/2026	10/2/2026	IP 71124.04	000728	Occupational Dose Assessment	
1,2	9/28/2026	10/2/2026	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1,2	9/28/2026	10/2/2026	IP 71151	000746	Performance Indicator Verification	
<b>EMERGENCY PREPAREDNESS PROGRAM INSPECTION</b>						2
1,2	10/5/2026	10/9/2026	IP 71114.02	000717	Alert and Notification System Testing	
1,2	10/5/2026	10/9/2026	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1,2	10/5/2026	10/9/2026	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1,2	10/5/2026	10/9/2026	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1,2	10/5/2026	10/9/2026	IP 71151	001397	Performance Indicator Verification	
<b>SECURITY BASELINE INSPECTION</b>						2
1,2	10/19/2026	10/22/2026	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1,2	10/19/2026	10/22/2026	IP 71130.07	000739	Security Training	