



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 11, 2026

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 05000369/2025006 AND
05000370/2025006

Dear Edward Pigott:

The U.S. Nuclear Regulatory Commission (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, 2025, through December 31, 2025. 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, 2027. 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.

This letter and its enclosure will be made available for public inspection and copying at [ADAMS Public Documents | NRC.gov](#) 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."

E. Pigott

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

Sincerely,



Signed by Williams, Robert
on 03/05/26

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:
Inspection Plan

cc w/ encl: Distribution via GovDelivery

Site Inspection Activity Plan

McGuire

03/01/2026 - 12/31/2027

| Unit | Start | End | Activity | CAC | Title | Staff Count |
|---|------------|------------|-----------------|--------|---|-------------|
| UNIT 2 IN-SERVICE INSPECTION | | | | | | 1 |
| 2 | 3/30/2026 | 4/3/2026 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |
| FOCUSED ENGINEERING INSPECTION (CGD) | | | | | | 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 | |
| MCGUIRE REQUAL INSPECTION | | | | | | 2 |
| 1,2 | 6/8/2026 | 6/12/2026 | IP 71111.11B | 000704 | Licensed Operator Requalification Program and Licensed Operator Performance | |
| CYBER SECURITY INSPECTION | | | | | | 4 |
| 1,2 | 6/22/2026 | 6/26/2026 | IP 71130.10 | 000741 | Cybersecurity | |
| MCGUIRE INITIAL LICENSE EXAM | | | | | | 4 |
| 1,2 | 7/19/2026 | 7/25/2026 | OV | 000956 | FB-OR-Onsite Validation Of Initial License Examination (OV) | |
| 1,2 | 8/23/2026 | 9/5/2026 | EXAD | 000500 | FB-OR-Initial License Exam Administration (EXAD) | |
| UNIT 1 IN-SERVICE INSPECTION | | | | | | 1 |
| 1 | 9/14/2026 | 9/18/2026 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |
| RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION | | | | | | 2 |
| 1,2 | 8/3/2026 | 8/7/2026 | IP 71124.05 | 000729 | Radiation Monitoring Instrumentation | |
| 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 71151 | 000746 | Performance Indicator Verification | |
| MATERIAL CONTROL AND ACCOUNTING | | | | | | 1 |
| 1,2 | 10/5/2026 | 10/9/2026 | IP 71130.11 | 000742 | Material Control and Accounting (MC&A) | |
| SECURITY BASELINE INSPECTION | | | | | | 2 |
| 1,2 | 10/19/2026 | 10/22/2026 | IP 71130.02 | 000734 | Access Control | |
| 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 71130.09 | 001656 | Security Plan Changes | |
| 1,2 | 10/19/2026 | 10/22/2026 | IP 71151 | 001338 | Performance Indicator Verification | |
| EMERGENCY PREPAREDNESS PROGRAM INSPECTION | | | | | | 2 |
| 1,2 | 11/2/2026 | 11/6/2026 | IP 71114.02 | 000717 | Alert and Notification System Testing | |

Site Inspection Activity Plan

| | | | | | | |
|--|-----------|-----------|--------------|--------|---|----------|
| 1,2 | 11/2/2026 | 11/6/2026 | IP 71114.03 | 000718 | Emergency Response Organization Staffing and Augmentation System | |
| 1,2 | 11/2/2026 | 11/6/2026 | IP 71114.04 | 000719 | Emergency Action Level and Emergency Plan Changes | |
| 1,2 | 11/2/2026 | 11/6/2026 | IP 71114.05 | 000720 | Maintenance of Emergency Preparedness | |
| 1,2 | 11/2/2026 | 11/6/2026 | IP 71151 | 001397 | Performance Indicator Verification | |
| ISFSI LICENSE RENEWAL | | | | | | 3 |
| 1,2 | 3/1/2027 | 3/5/2027 | IP 60859 | | Independent Spent Fuel Storage Installation (ISFSI) License Renewal Inspection | |
| PROBLEM IDENTIFICATION AND RESOLUTION | | | | | | 4 |
| 1,2 | 3/15/2027 | 3/19/2027 | IP 71152B | 000747 | Problem Identification and Resolution | |
| 1,2 | 3/29/2027 | 4/2/2027 | IP 71152B | 000747 | Problem Identification and Resolution | |
| FOCUSED ENGINEERING INSPECTION 2 – TBD | | | | | | 3 |
| 1,2 | 5/3/2027 | 5/7/2027 | IP 71111.21N | 000714 | Focused Engineering Inspections (FEI Placeholder) | |
| 1,2 | 5/24/2027 | 5/28/2027 | IP 71111.21N | 000714 | Focused Engineering Inspections (FEI Placeholder) | |
| SECURITY BASELINE INSPECTION - MCG | | | | | | 3 |
| 1,2 | 6/21/2027 | 6/24/2027 | IP 71130.05 | 000737 | Protective Strategy Evaluation | |
| 1,2 | 6/21/2027 | 6/24/2027 | IP 71130.14 | 000743 | Review of Power Reactor Target Sets | |
| OPERATION OF AN ISFSI | | | | | | 2 |
| 1,2 | 6/28/2027 | 7/2/2027 | IP 60855 | | Operation of an Independent Spent Fuel Storage Installation | |
| EMERGENCY PREPAREDNESS EXERCISE INSPECTION | | | | | | 5 |
| 1,2 | 8/16/2027 | 8/20/2027 | IP 71114.01 | 000716 | Exercise Evaluation | |
| 1,2 | 8/16/2027 | 8/20/2027 | IP 71114.04 | 000719 | Emergency Action Level and Emergency Plan Changes | |
| 1,2 | 8/16/2027 | 8/20/2027 | IP 71151 | 001397 | Performance Indicator Verification | |
| UNIT 2 IN-SERVICE INSPECTION | | | | | | 1 |
| 2 | 9/13/2027 | 9/17/2027 | IP 71111.08P | 000702 | Inservice Inspection Activities (PWR) | |
| RP OCCUPATIONAL RAD SAFETY AND TRANSPORTATION BASELINE INSPECTION | | | | | | 2 |
| 1,2 | 9/13/2027 | 9/17/2027 | IP 71124.01 | 000725 | Radiological Hazard Assessment and Exposure Controls | |
| 1,2 | 9/13/2027 | 9/17/2027 | IP 71124.08 | 000732 | Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation | |
| 1,2 | 9/13/2027 | 9/17/2027 | IP 71151 | 000746 | Performance Indicator Verification | |
| SECURITY BASELINE INSPECTION - MCG | | | | | | 2 |
| 1,2 | 10/4/2027 | 10/7/2027 | IP 71130.02 | 000734 | Access Control | |
| 1,2 | 10/4/2027 | 10/7/2027 | IP 71130.07 | 000739 | Security Training | |
| 1,2 | 10/4/2027 | 10/7/2027 | IP 71130.09 | 001656 | Security Plan Changes | |