



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

March 3, 2021

Mr. Thomas D. Ray
Site Vice President
Duke Energy Carolinas, LLC
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: ANNUAL ASSESSMENT LETTER FOR MCGUIRE NUCLEAR STATION UNITS 1
AND 2 - NRC INSPECTION REPORT 05000369/2020006 AND 05000370/2020006

Dear Mr. Ray:

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, 2020, through December 31, 2020. 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 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, 2022. 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 response to the COVID-19 public health emergency (PHE), the NRC is adjusting inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. Each planned inspection is being carefully reviewed in order to determine if any portions of the inspection can be performed remotely, how best to perform on-site portions to minimize personnel health risks and adjust inspection schedules if needed. This is done in accordance with guidance contained in the February 1, 2021 memo, "Calendar Year 2021 Inspection Guidance During COVID-19 Telework Restrictions," (ML21027A274).

For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

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 call me at 404-997-4611 with any questions you have regarding this letter.

Sincerely,

/RA/

Jared Nadel, Acting Chief
Reactor Projects Branch 1
Division of Reactor Projects

Docket Nos.: 50-369, 50-370
License Nos.: NPF-9, NPF-17

Enclosure: McGuire Inspection/Activity Plan
(03/01/2021 – 12/31/2022)

cc distribution via ListServ

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DATED: March 3, 2021

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OFFICE	RII: DRP	RII: DRP			
NAME	J. Worosilo	J. Nadel			
DATE	2/24/2021	3/3/2021			

IP 22 Inspection Activity Plan Report

McGuire

03/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
NFPA 805 TRIENNIAL FIRE PROTECTION INSPECTION						4
1, 2	03/22/2021	03/26/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
1, 2	04/05/2021	04/09/2021	IP 71111.21N.05	001646	Fire Protection Team Inspection (FPTI)	
SECURITY BASELINE INSPECTION AND .05 DRILL OBSERVATION						1
1, 2	03/22/2021	03/26/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	07/12/2021	07/16/2021	IP 71130.02	000734	Access Control	
1, 2	07/12/2021	07/16/2021	IP 71130.05	000737	Protective Strategy Evaluation	
1, 2	07/12/2021	07/16/2021	IP 71130.09	001656	Security Plan Changes	
1, 2	07/12/2021	07/16/2021	IP 71151	001338	Performance Indicator Verification	
TARGET SET INSPECTION						2
1, 2	04/19/2021	04/22/2021	IP 71130.14	000743	Review of Power Reactor Target Sets	
TRIENNIAL HEAT SINK PERFORMANCE						1
1, 2	07/19/2021	07/23/2021	IP 71111.07T	000700	Heat Sink Performance	
RP PUBLIC RAD SAFETY INSPECTION						2
1, 2	07/19/2021	07/23/2021	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/19/2021	07/23/2021	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/19/2021	07/23/2021	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
1, 2	07/19/2021	07/23/2021	IP 71151	000746	Performance Indicator Verification	
EMERGENCY PREPAREDNESS EXERCISE						5
1, 2	08/02/2021	08/06/2021	IP 71114.01	000716	Exercise Evaluation	
1, 2	08/02/2021	08/06/2021	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	08/02/2021	08/06/2021	IP 71151	001397	Performance Indicator Verification	
UNIT 2 IN-SERVICE INSPECTION +SG						2
2	09/13/2021	09/17/2021	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY INSPECTION						3
1, 2	09/13/2021	09/17/2021	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/13/2021	09/17/2021	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/13/2021	09/17/2021	IP 71151	000746	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

IP 22 Inspection Activity Plan Report

McGuire

03/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
DUKE CORPORATE AA/FFD BASELINE SECURITY INSPECTION						2
1, 2	01/10/2022	01/14/2022	IP 71130.01	000733	Access Authorization	
1, 2	01/10/2022	01/14/2022	IP 71130.08	000740	Fitness For Duty Program	
MCGUIRE INITIAL LICENSE EXAM						4
1, 2	01/10/2022	01/14/2022	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	02/14/2022	02/25/2022	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS						3
1, 2	01/31/2022	02/04/2022	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
SECURITY BASELINE INSPECTION						1
1, 2	03/07/2022	03/11/2022	IP 71130.01	000733	Access Authorization	
1, 2	03/07/2022	03/11/2022	IP 71130.08	000740	Fitness For Duty Program	
UNIT 1 IN-SERVICE INSPECTION +SG						2
1	03/28/2022	04/01/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION						2
1, 2	04/04/2022	04/08/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/04/2022	04/08/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/04/2022	04/08/2022	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	04/04/2022	04/08/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	04/04/2022	04/08/2022	IP 71151	000746	Performance Indicator Verification	
1, 2	04/18/2022	04/22/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/18/2022	04/22/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/18/2022	04/22/2022	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	04/18/2022	04/22/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	04/18/2022	04/22/2022	IP 71151	000746	Performance Indicator Verification	
MCGUIRE REQUAL INSPECTION						2
1, 2	06/13/2022	06/17/2022	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
FORCE-ON-FORCE PLANNING AND EXERCISE WEEKS						6
1, 2	06/27/2022	07/01/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	07/18/2022	07/22/2022	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	

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IP 22 Inspection Activity Plan Report

McGuire

03/01/2021 - 12/31/2022

Unit	Start	End	Activity	CAC	Title	Staff Count
EMERGENCY PREPAREDNESS PROGRAM INSPECTION						2
1, 2	10/17/2022	10/21/2022	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	10/17/2022	10/21/2022	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	10/17/2022	10/21/2022	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	10/17/2022	10/21/2022	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1, 2	10/17/2022	10/21/2022	IP 71151	001397	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						3
1, 2	10/24/2022	10/28/2022	IP 71130.02	000734	Access Control	
1, 2	10/24/2022	10/28/2022	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	10/24/2022	10/28/2022	IP 71130.07	000739	Security Training	
1, 2	10/24/2022	10/28/2022	IP 71130.09	001656	Security Plan Changes	
1, 2	10/24/2022	10/28/2022	IP 71151	001338	Performance Indicator Verification	