



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

February 28, 2018

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 05000369/2017006 AND 05000370/2017006, REPORT 05000369/2017402 AND 05000370/2017402, REPORT 05000369/2017501 AND 05000370/2017501

Dear Mr. Ray:

The 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, 2017, through December 31, 2017. 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, 2019. This updated inspection plan now includes planned security inspections which were formerly transmitted under separate correspondence. 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 12 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, 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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

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

Sincerely,

/RA/

Frank Ehrhardt, 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
(03/01/2018 – 12/31/2019)

cc Distribution via ListServ

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OFFICE	RII: DRP	RII: DRP	RII: DRP			
NAME	MToth	JWorosilo	FEhrhardt			
DATE	2/23/2018	2/23/2018	2/26/2018			

OFFICIAL RECORD COPY

IP 22 Inspection Activity Plan Report

McGuire

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
DESIGN BASES ASSURANCE INSPECTION (TEAM)						6
1, 2	02/26/2018	03/02/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
MCGUIRE INITIAL LICENSE EXAM						3
1, 2	03/19/2018	03/23/2018	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	04/16/2018	04/27/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
TRIENNIAL FIRE PROTECTION INSPECTION						5
1, 2	04/30/2018	05/04/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1, 2	05/14/2018	05/18/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
CYBER SECURITY						4
1, 2	06/11/2018	06/15/2018	IP 71130.10P	000741	Cyber Security	
1, 2	06/25/2018	06/29/2018	IP 71130.10P	000741	Cyber Security	
MCGUIRE REQUAL INSPECTION						2
1, 2	06/18/2018	06/22/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	
EP PROGRAM INSPECTION						2
1, 2	06/18/2018	06/22/2018	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	06/18/2018	06/22/2018	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	06/18/2018	06/22/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	06/18/2018	06/22/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/18/2018	06/22/2018	IP 71151	001397	Performance Indicator Verification	
TRIENNIAL HEAT SINK PERFORMANCE						1
1, 2	06/25/2018	06/29/2018	IP 71111.07T	000700	Heat Sink Performance -Triennial	
PROBLEM IDENTIFICATION AND RESOLUTION						4
1, 2	07/09/2018	07/13/2018	IP 71152B	000747	Problem Identification and Resolution	
1, 2	07/23/2018	07/27/2018	IP 71152B	000747	Problem Identification and Resolution	

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

SECURITY BASELINE INSPECTION						2
1, 2	07/16/2018	07/20/2018	IP 71130.02	000734	Access Control	
1, 2	07/16/2018	07/20/2018	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	07/16/2018	07/20/2018	IP 71130.07	000739	Security Training	
1, 2	07/16/2018	07/20/2018	IP 71151	001338	Performance Indicator Verification	
UNIT 2 POST-APPROVAL LR PHASE 1						2
2	09/24/2018	09/28/2018	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
UNIT 2 IN-SERVICE INSPECTION & RVH EXAM						2
2	09/24/2018	09/28/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP OCCUPATIONAL - WEEK 1						3
1, 2	09/24/2018	09/28/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/24/2018	09/28/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	09/24/2018	09/28/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	09/24/2018	09/28/2018	IP 71151	000746	Performance Indicator Verification	
TARGET SET						2
1, 2	10/15/2018	10/19/2018	IP 71130.14	000743	Review of Power Reactor Target Sets	
RP OCCUPATIONAL - WEEK 2						2
1, 2	10/15/2018	10/19/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/15/2018	10/19/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	10/15/2018	10/19/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	10/15/2018	10/19/2018	IP 71151	000746	Performance Indicator Verification	
DUKE CORP AA/FFD/SGI SECURITY INSPECTION						2
1, 2	11/05/2018	11/09/2018	IP 71130.01	000733	Access Authorization	
1, 2	11/05/2018	11/09/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	11/05/2018	11/09/2018	IP 71130.08	000740	Fitness For Duty Program	
SECURITY BASELINE INSPECTION						1
1, 2	12/10/2018	12/14/2018	IP 71130.01	000733	Access Authorization	
1, 2	12/10/2018	12/14/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	12/10/2018	12/14/2018	IP 71130.08	000740	Fitness For Duty Program	

IP 22 Inspection Activity Plan Report

FORCE-ON-FORCE PLANNING AND EXERCISES						7
1, 2	01/14/2019	01/18/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	02/04/2019	02/08/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
UNIT 1 POST-APPROVAL LR PHASE 1						2
1	04/01/2019	04/04/2019	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
UNIT 1 IN-SERVICE INSPECTION						1
1	04/01/2019	04/05/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RAD HAZARDS						1
1, 2	04/01/2019	04/05/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS						3
1, 2	07/15/2019	07/19/2019	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	
SECURITY BASELINE INSPECTION						1
1, 2	07/15/2019	07/19/2019	IP 71130.02	000734	Access Control	
1, 2	07/15/2019	07/19/2019	IP 71151	001338	Performance Indicator Verification	
RP PUBLIC						3
1, 2	07/22/2019	07/26/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/22/2019	07/26/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/22/2019	07/26/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	07/22/2019	07/26/2019	IP 71151	000746	Performance Indicator Verification	