



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

March 4, 2019

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 05000369/2018006 AND
05000370/2018006

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, 2018, through December 31, 2018. 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, 2020. 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. You should be aware that the agency is pursuing potential changes to the ROP, including changes to engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections"). Should these changes to the ROP be implemented, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. 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.

The NRC will be in contact with your staff to schedule completion of Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)." The NRC intends to complete this inspection in 2019.

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
(03/01/2019 – 12/31/2020)

cc distribution via ListServ

Letter to Thomas D. Ray from Frank Ehrhardt dated March 4, 2019

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05000370/2018006**

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Institute of Nuclear Power Operations (INPO)

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DATE	2/1/2019	2/4/2019	2/21/2019		

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IP 22 Inspection Activity Plan Report

McGuire

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
UNIT 1 POST-APPROVAL LR PHASE 1						2
1	04/01/2019	04/05/2019	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)	
RP OCCUPATIONAL RAD SAFETY RAD HAZARDS BASELINE INSPECTION						1
1, 2	04/01/2019	04/05/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
EMERGENCY PREPAREDNESS EXERCISE						5
1, 2	07/01/2019	08/16/2019	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1, 2	08/12/2019	08/16/2019	IP 71114.01	000716	Exercise Evaluation	
1, 2	08/12/2019	08/16/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	08/12/2019	08/16/2019	IP 71151	001397	Performance Indicator Verification	
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	
RP OCCUPATIONAL RAD SAFETY PUBLIC BASELINE INSPECTION						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	
SECURITY BASELINE INSPECTION						1
1, 2	07/22/2019	07/26/2019	IP 71130.02	000734	Access Control	
1, 2	07/22/2019	07/26/2019	IP 71151	001338	Performance Indicator Verification	
MCGUIRE INITIAL LICENSE EXAM						3
1, 2	01/13/2020	01/17/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	02/17/2020	02/28/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
UNIT 2 IN-SERVICE/SG IN-SERVICE INSPECTION						2
2	03/09/2020	03/13/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 1						3
1, 2	03/09/2020	03/13/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	

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

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McGuire

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 1						3
1, 2	03/09/2020	03/13/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/09/2020	03/13/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/09/2020	03/13/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/09/2020	03/13/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 2						2
1, 2	03/23/2020	03/27/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/23/2020	03/27/2020	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/23/2020	03/27/2020	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/23/2020	03/27/2020	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/23/2020	03/27/2020	IP 71124.05	000729	Radiation Monitoring Instrumentation	
POST-APPROVAL LR PHASE 2						5
1, 2	06/01/2020	06/05/2020	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
1, 2	06/15/2020	06/19/2020	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
MCGUIRE REQUAL INSPECTION						2
1, 2	06/15/2020	06/19/2020	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)						3
1, 2	06/22/2020	06/26/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	07/06/2020	07/10/2020	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
PROBLEM IDENTIFICATION AND RESOLUTION						4
1, 2	07/20/2020	07/24/2020	IP 71152B	000747	Problem Identification and Resolution	
1, 2	08/03/2020	08/07/2020	IP 71152B	000747	Problem Identification and Resolution	
SECURITY BASELINE INSPECTION						3
1, 2	08/17/2020	08/21/2020	IP 71130.02	000734	Access Control	
1, 2	08/17/2020	08/21/2020	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1, 2	08/17/2020	08/21/2020	IP 71130.07	000739	Security Training	
1, 2	08/17/2020	08/21/2020	IP 71151	001338	Performance Indicator Verification	

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McGuire

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
UNIT 1 IN-SERVICE INSPECTION +SG						
1	09/28/2020	10/02/2020	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	2