



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

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

March 1, 2017

Steven D. Capps
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 05000369/2016006 AND 05000370/2016006**

Dear Mr. Capps:

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, 2016 through December 31, 2016. 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, 2018. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

The NRC will conduct Temporary Instruction 2515/192, "Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition (OPC) Design Vulnerabilities in Electric Power Systems," in March 2017.

S. Capps

2

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 404-997-4611 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
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

S. Capps

3

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AND 2 - NRC INSPECTION REPORT 05000369/2016006 AND 05000370/2016006
March 1, 2017

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ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

ADAMS Accession Number: ML 17060A199

OFFICE	RII:DRP	RII:DRP					
NAME	JWorosilo	FEhrhardt					
DATE	2/ 16 /2017	2/17/2017					

OFFICIAL AGENCY RECORD

McGuire
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
			RP - RAD HAZARDS		1
1, 2	04/03/2017	04/07/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	04/10/2017	04/14/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			SGISI - UNIT 2 SG IN-SERVICE INSPECTION		1
2	04/17/2017	04/21/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			RP - RP PUBLIC RAD SAFETY BASELINE		3
1, 2	06/05/2017	06/09/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	06/05/2017	06/09/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	06/05/2017	06/09/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1, 2	06/05/2017	06/09/2017	IP 71151	Performance Indicator Verification	
			EP - EP EXERCISE		3
1, 2	08/07/2017	08/11/2017	IP 7111401	Exercise Evaluation	
1, 2	08/07/2017	08/11/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	08/07/2017	08/11/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	08/07/2017	08/11/2017	IP 71151	Performance Indicator Verification	
			ISI - UNIT 1 IN-SERVICE INSPECTION		1
1	10/02/2017	10/06/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			SGISI - UNIT 1 SG IN-SERVICE INSPECTION		1
1	10/09/2017	10/13/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)		6
1, 2	01/22/2018	01/26/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	02/12/2018	02/16/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
1, 2	02/26/2018	03/02/2018	IP 7111121M	Component Design Bases Inspection (Teams)	
			OL EXAM - INITIAL LICENSE EXAM PREP		3
1	03/19/2018	03/23/2018	V23511	MCGUIRE/APRIL 2018 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL LICENSE EXAM		3
1	04/16/2018	04/27/2018	V23511	MCGUIRE/APRIL 2018 INITIAL EXAM AT POWER FACILITIES	
			TFPI - TRIENNIAL FIRE PROTECTION INSPECTION		5
1, 2	04/30/2018	05/04/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
1, 2	05/14/2018	05/18/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
			EP - EP PROGRAM INSPECTION		3
1, 2	06/18/2018	06/22/2018	IP 7111402	Alert and Notification System Testing	

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

Enclosure

McGuire
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
EP - EP PROGRAM INSPECTION					3
1, 2	06/18/2018	06/22/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	06/18/2018	06/22/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	06/18/2018	06/22/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	06/18/2018	06/22/2018	IP 71151	Performance Indicator Verification	
OL RQ - REQUAL INSPECTION					2
1, 2	06/18/2018	06/22/2018	IP 7111111B	Licensed Operator Requalification Program	
HS - TRIENNIAL HEAT SINK PERFORMANCE					1
1, 2	06/25/2018	06/29/2018	IP 7111107T	Heat Sink Performance	
PI&R - PROBLEM IDENTIFICATION AND RESOLUTION					4
1, 2	07/24/2018	07/28/2018	IP 71152B	Problem Identification and Resolution	
1, 2	08/07/2018	08/11/2018	IP 71152B	Problem Identification and Resolution	
ISI - UNIT 2 IN-SERVICE INSPECTION					2
2	09/24/2018	09/28/2018	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL - WEEK 1					3
1, 2	09/24/2018	09/28/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	09/24/2018	09/28/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/24/2018	09/28/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	09/24/2018	09/28/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	09/24/2018	09/28/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	09/24/2018	09/28/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
RP - RP OCCUPATIONAL - WEEK 2					2
1, 2	10/15/2018	10/19/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	10/15/2018	10/19/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	10/15/2018	10/19/2018	IP 71124.04	Occupational Dose Assessment	
1, 2	10/15/2018	10/19/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	10/15/2018	10/19/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1, 2	10/15/2018	10/19/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	

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