



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION II
245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

August 31, 2016

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR MCGUIRE NUCLEAR STATION UNITS
1 AND 2 (NRC INSPECTION REPORT 05000369/2016005 AND
05000370/2016005)**

Dear Mr. Capps:

On August 9, 2016, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the McGuire Nuclear Station, Units 1 and 2. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2015 through June 30, 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 determined that overall, McGuire Nuclear Station operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at McGuire Units 1 and 2 during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance and all PIs indicated that your performance was within the nominal, 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 June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security related inspections which will be sent via separate, non-publicly available correspondence.

The NRC staff completed Temporary Instruction 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans" at McGuire on July 29, 2016, to confirm full implementation of orders Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel

Pool Instrumentation.” The results of the inspection can be found in inspection report 05000369/2016009 and 05000370/2016009.

In Staff Requirements Memorandum – SECY 16-0009, “Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities,” the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. This will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessment meetings and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, “Operating Reactor Assessment Program.”

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
(09/01/2016 – 06/30/2018)

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 ADAMS: Yes ACCESSION NUMBER: ML16244A136 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	MMT2	JGW1	FJE				
NAME	M. Toth	J. Worosilo	F. Ehrhardt				
DATE	8/25/2016	8/25/2016	8/25/2016	8/ /2016	8/ /2016	8/ /2016	8/ /2016
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

Letter to Steven D. Capps from Frank Ehrhardt dated August 31, 2016

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR MCGUIRE NUCLEAR STATION UNITS
1 AND 2 (NRC INSPECTION REPORT 05000369/2016005 AND
05000370/2016005)

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ROP Assessment

ROP Reports

Institute of Nuclear Power Operations (INPO)

McGuire
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			MODS - PLANT MODIFICATIONS INSPECTION		4
1, 2	09/12/2016	09/16/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	09/26/2016	09/30/2016	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			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	
			EP - EP EXERCISE INSPECTION		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	
			CDBI - COMPONENT DESIGN BASES INSPECTION		6
1, 2	03/05/2018	03/10/2018	IP 7111121	Component Design Bases Inspection	
1, 2	03/26/2018	03/30/2018	IP 7111121	Component Design Bases Inspection	
1, 2	04/09/2018	04/13/2018	IP 7111121	Component Design Bases Inspection	
1, 2	04/23/2018	04/27/2018	IP 7111121	Component Design Bases Inspection	
			EP - EP PROGRAM INSPECTION		3
1, 2	06/18/2018	06/22/2018	IP 7111402	Alert and Notification System Testing	
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	

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

Enclosure

McGuire
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates Start End		Inspection Activity	Title	No. of Staff on Site
HS - TRIENNIAL HEAT SINK PERFORMANCE					
1, 2	06/25/2018	06/29/2018	IP 7111107T	Heat Sink Performance	1

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This report shows only on-site and announced inspection procedures.

Enclosure