



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

August 31, 2016

Mr. Kelvin Henderson
Site Vice President
Duke Energy Corporation
Catawba Nuclear Station
4800 Concord Road
York, SC 29745-9635

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR CATAWBA NUCLEAR STATION
UNITS 1 AND 2 (NRC INSPECTION REPORT 05000413/2016005 AND
05000414/2016005)**

Dear Mr. Henderson:

On August 9, 2016, the Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Catawba 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, Catawba Nuclear Station, Units 1 and 2 operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Catawba 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.

In response to the accident at Fukushima, the Commission issued 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 NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff

will confirm through inspections the full implementation of the orders mentioned above by performing Temporary Instruction 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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.: 50-413, 50-414
License Nos.: NPF-35, NPF-52

Enclosure: Catawba Inspection/Activity Plan
(09/01/2016 – 06/30/2018)

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 ADAMS: Yes ACCESSION NUMBER: ML16244A127 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

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRP NEW\RPB7\PERIODIC ASSESSMENTS & REPORTS\IEOC & MID-CYCLE\2016\ADMIN WORKING FOLDER\LETTERS\CATAWBA MID-CYCLE LETTER 2016.DOCX

Letter to Kelvin Henderson from Frank Ehrhardt dated August 31, 2016

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UNITS 1 AND 2 (NRC INSPECTION REPORT 05000413/2016005 AND
05000414/2016005)

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Institute of Nuclear Power Operations (INPO)

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

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
RP - RP OCCUPATIONAL INSPECTION WEEK 1					3
1, 2	09/12/2016	09/16/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/12/2016	09/16/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	09/12/2016	09/16/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/12/2016	09/16/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	09/12/2016	09/16/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	09/12/2016	09/16/2016	IP 71151	Performance Indicator Verification	
ISI - UNIT 2 IN-SERVICE INSPECTION					1
2	09/19/2016	09/23/2016	IP 7111108P	Inservice Inspection Activities - PWR	
SGISI - UNIT 2 SG IN-SERVICE INSPECTION					1
2	09/26/2016	09/30/2016	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL INSPECTION WEEK 2					2
1, 2	09/26/2016	09/30/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/26/2016	09/30/2016	IP 71124.02	Occupational ALARA Planning and Controls	
1, 2	09/26/2016	09/30/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	09/26/2016	09/30/2016	IP 71124.04	Occupational Dose Assessment	
1, 2	09/26/2016	09/30/2016	IP 71124.05	Radiation Monitoring Instrumentation	
1, 2	09/26/2016	09/30/2016	IP 71151	Performance Indicator Verification	
PI&R - PROBLEM IDENTIFICATION AND RESOLUTION					7
1, 2	10/24/2016	10/28/2016	IP 71152B	Problem Identification and Resolution	
1, 2	11/07/2016	11/11/2016	IP 71152B	Problem Identification and Resolution	
MODS - PLANT MODIFICATIONS INSPECTION					3
1, 2	01/23/2017	01/27/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
1, 2	02/06/2017	02/10/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
EP - EP PROGRAM INSPECTION					4
1, 2	03/27/2017	03/31/2017	IP 7111402	Alert and Notification System Testing	
1, 2	03/27/2017	03/31/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1, 2	03/27/2017	03/31/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	03/27/2017	03/31/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	03/27/2017	03/31/2017	IP 71151	Performance Indicator Verification	
ISI - UNIT 1 IN-SERVICE INSPECTION					1
1	05/08/2017	05/12/2017	IP 7111108P	Inservice Inspection Activities - PWR	

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

Enclosure

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

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			RP - RAD HAZARDS ANALYSIS AND TRANSPORTATION		2
1, 2	05/08/2017	05/12/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/08/2017	05/12/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			OL EXAM - INITIAL LICENSE EXAM PREP		3
1	05/29/2017	06/02/2017	V23495	CATAWBA/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL LICENSE EXAM		3
1	06/26/2017	07/07/2017	V23495	CATAWBA/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			RP - RP PUBLIC RAD SAFETY BASELINE		2
1, 2	07/24/2017	07/28/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/24/2017	07/28/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1, 2	07/24/2017	07/28/2017	IP 71151	Performance Indicator Verification	
			TFPI - TRIENNIEL FIRE PROTECTION INSPECTION		5
1, 2	07/24/2017	07/28/2017	IP 7111105T	Fire Protection [Triennial]	
1, 2	08/07/2017	08/11/2017	IP 7111105T	Fire Protection [Triennial]	
			ISI - UNIT 2 IN-SERVICE INSPECTION		1
2	03/26/2018	03/30/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			SGISI - UNIT 2 SG IN-SERVICE INSPECTION		1
2	04/02/2018	04/06/2018	IP 7111108P	Inservice Inspection Activities - PWR	
			EP - EP EXERCISE		6
1, 2	06/04/2018	06/08/2018	IP 7111401	Exercise Evaluation	
1, 2	06/04/2018	06/08/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	06/04/2018	06/08/2018	IP 7111408	Exercise Evaluation – Scenario Review	
1, 2	06/04/2018	06/08/2018	IP 71151	Performance Indicator Verification	
			CDBI - COMPONENT DESIGN BASES INSPECTION		6
1, 2	06/04/2018	06/08/2018	IP 7111121	Component Design Bases Inspection	
1, 2	06/25/2018	06/29/2018	IP 7111121	Component Design Bases Inspection	

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Enclosure