



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

March 2, 2016

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR CATAWBA NUCLEAR STATION UNITS 1  
AND 2 (NRC INSPECTION REPORT 05000413/2015006 AND 05000414/2015006)**

Dear Mr. Henderson:

On February 9, 2016, the NRC completed its end-of-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 January 1, 2015 through December 31, 2015. 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 December 31, 2017. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-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." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event

mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for Catawba Nuclear Station, Units 1 and 2, and the information gathered will aid staff in development of the Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 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 accordance with 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  
(03/01/2016 – 12/31/2017)

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PUBLICLY AVAILABLE       NON-PUBLICLY AVAILABLE       SENSITIVE       NON-SENSITIVE  
ADAMS:  Yes      ACCESSION NUMBER: ML16062A142       SUNSI REVIEW COMPLETE       FORM 665 ATTACHED

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	Via Email/RA/MMT2	JGW1	FJE				
NAME	M. Toth	J. Worosilo	F. Ehrhardt				
DATE	2/25/2016	2/25/2016	2/26/2016	3/ /2016	3/ /2016	3/ /2016	3/ /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\PERIODIC ASSESSMENTS & REPORTS\EOC & MID-CYCLE\2015\END OF CYCLE\INPUT\RPB1\CATAWBA EOC LETTER.DOCX

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Letter to Kelvin Henderson from Frank Ehrhardt dated March 2, 2016

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**Catawba**  
**Inspection / Activity Plan**  
**03/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP - EP EXERCISE INSPECTION</b>		<b>6</b>
1, 2	04/04/2016	04/08/2016	IP 7111401	Exercise Evaluation	
1, 2	04/04/2016	04/08/2016	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1, 2	04/04/2016	04/08/2016	IP 71151	Performance Indicator Verification	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	04/18/2016	04/22/2016	V23469	CATAWBA MAY 2016 INITIAL EXAM AT POWER FACILITIRS	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	05/16/2016	05/27/2016	V23469	CATAWBA MAY 2016 INITIAL EXAM AT POWER FACILITIRS	
			<b>HS - TRIENNIAL HEAT SINK PERFORMANCE</b>		<b>1</b>
1, 2	08/01/2016	08/05/2016	IP 7111107T	Heat Sink Performance	
			<b>OL RQ - REQUAL INSP</b>		<b>2</b>
1, 2	08/08/2016	08/12/2016	IP 7111111B	Licensed Operator Requalification Program	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 1</b>		<b>3</b>
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	
			<b>ISI - UNIT 2 IN-SERVICE INSPECTION</b>		<b>1</b>
2	09/19/2016	09/23/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RP OCCUPATIONAL INSPECTION WEEK 2</b>		<b>2</b>
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	
			<b>SGISI - UNIT 2 SG IN-SERVICE INSPECTION</b>		<b>1</b>
2	09/26/2016	09/30/2016	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>7</b>
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	

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

**Catawba**  
**Inspection / Activity Plan**  
**03/01/2016 - 12/31/2017**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>MODS - PLANT MODIFICATIONS INSPECTION</b>		<b>3</b>
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	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>4</b>
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	
			<b>ISI - UNIT 1 IN-SERVICE INSPECTION</b>		<b>1</b>
1	05/08/2017	05/12/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>RP - RAD HAZARDS ANALYSIS AND TRANSPORTATION</b>		<b>2</b>
1, 2	05/15/2017	05/19/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1, 2	05/15/2017	05/19/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>SGISI - UNIT 1 SG IN-SERVICE INSPECTION</b>		<b>1</b>
1	05/15/2017	05/19/2017	IP 7111108P	Inservice Inspection Activities - PWR	
			<b>OL EXAM - INITIAL LICENSE EXAM PREP</b>		<b>3</b>
1	05/29/2017	06/02/2017	V23495	CATAWBA/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>OL EXAM - INITIAL LICENSE EXAM</b>		<b>3</b>
1	06/26/2017	07/07/2017	V23495	CATAWBA/JULY 2017 INITIAL EXAM AT POWER FACILITIES	
			<b>RP - RP PUBLIC RAD SAFETY BASELINE</b>		<b>2</b>
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	
			<b>TFPI - TRIENNIEL FIRE PROTECTION INSPECTION</b>		<b>1</b>
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]	

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