



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

February 28, 2018

Mr. Tom Simril  
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 05000413/2017006 AND 05000414/2017006, REPORT 05000413/2017402 AND 05000414/2017402, REPORT 05000413/2017501 AND 05000414/2017501**

Dear Mr. Simril:

The Nuclear Regulatory Commission (NRC) has completed its end-of-cycle performance assessment of Catawba Nuclear Station Units 1 and 2, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2017, through December 31, 2017. 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 Catawba Nuclear Station Unit 1 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).

The NRC determined the performance at Catawba Nuclear Station Unit 2 during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's ROP Action Matrix. This conclusion was based on a single inspection finding having low-to-moderate safety significance (i.e., White) in the Mitigating Systems Cornerstone originating in the third quarter of 2017, and all PIs within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs." The objectives of the supplemental inspection are: (1) to ensure that the root and contributing causes of significant performance issues are understood, (2) to ensure that the extent of condition and extent of cause of significant performance issues are identified, (3) to ensure that corrective actions taken to address and preclude repetition of significant performance issues are prompt and effective, and (4) to ensure that corrective action

plans direct prompt actions to effectively address and preclude repetition of significant performance issues. The NRC has tentatively scheduled the supplemental inspection for the week of May 7, 2018. This date is dependent on notification of your readiness.

The enclosed inspection plan lists the inspections scheduled through December 31, 2019. 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. 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.

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 Frank Ehrhardt at 404-997-4611 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Joel T. Munday, Director  
Division of Reactor Projects

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

Enclosure:  
Catawba Inspection/Activity Plan  
(03/01/2018 – 12/31/2019)

cc Distribution via ListServ

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NAME	MToth	JWorosilo	FEhrhardt	JMunday		
DATE	2/23/2018	2/23/2018	2/26/2018	2/27/2018		

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# IP 22 Inspection Activity Plan Report

## Catawba

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>UNIT 2 IN-SERVICE INSPECTION</b>						1
2	03/19/2018	03/23/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>RP OCCUPATIONAL - WEEK 1</b>						2
1, 2	03/19/2018	03/23/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	03/19/2018	03/23/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	03/19/2018	03/23/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	03/19/2018	03/23/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	03/19/2018	03/23/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	03/19/2018	03/23/2018	IP 71151	000746	Performance Indicator Verification	
<b>RP OCCUPATIONAL - WEEK 2</b>						3
1, 2	04/23/2018	04/27/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	04/23/2018	04/27/2018	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1, 2	04/23/2018	04/27/2018	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1, 2	04/23/2018	04/27/2018	IP 71124.04	000728	Occupational Dose Assessment	
1, 2	04/23/2018	04/27/2018	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1, 2	04/23/2018	04/27/2018	IP 71151	000746	Performance Indicator Verification	
<b>95001 RESPONSE TO ACTION MATRIX COLUMN 2 INPUTS</b>						2
2	05/07/2018	05/11/2018	IP 95001	000938	Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area	
<b>EP EXERCISE</b>						5
1, 2	06/04/2018	06/08/2018	IP 71114.01	000716	Exercise Evaluation	
1, 2	06/04/2018	06/08/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	06/04/2018	06/08/2018	IP 71151	001397	Performance Indicator Verification	
<b>DESIGN BASES ASSURANCE INSPECTION (TEAM)</b>						6
1, 2	07/16/2018	07/20/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1, 2	07/30/2018	08/03/2018	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>CATAWBA REQUAL INSPECTION</b>						2
1, 2	08/06/2018	08/10/2018	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	

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

# IP 22 Inspection Activity Plan Report

<b>MC&amp;A TRIENNIAL INSPECTION</b>						2
1, 2	08/13/2018	08/17/2018	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>SECURITY BASELINE INSPECTION</b>						1
1, 2	09/17/2018	09/21/2018	IP 71130.02	000734	Access Control	
1, 2	09/17/2018	09/21/2018	IP 71151	001338	Performance Indicator Verification	
<b>TARGET SET</b>						1
1, 2	10/01/2018	10/05/2018	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>PROBLEM IDENTIFICATION AND RESOLUTION</b>						4
1, 2	10/01/2018	10/05/2018	IP 71152B	000747	Problem Identification and Resolution	
1, 2	10/15/2018	10/19/2018	IP 71152B	000747	Problem Identification and Resolution	
<b>DUKE CORP AA/FFD/SGI SECURITY INSPECTION</b>						2
1, 2	11/05/2018	11/09/2018	IP 71130.01	000733	Access Authorization	
1, 2	11/05/2018	11/09/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	11/05/2018	11/09/2018	IP 71130.08	000740	Fitness For Duty Program	
<b>UNIT 1 IN-SERVICE INSPECTION</b>						1
1	11/26/2018	11/30/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>UNIT 1 SG IN-SERVICE INSPECTION</b>						1
1	11/26/2018	11/30/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>SECURITY BASELINE INSPECTION</b>						2
1, 2	12/17/2018	12/21/2018	IP 71130.01	000733	Access Authorization	
1, 2	12/17/2018	12/21/2018	IP 71130.06	000738	Protection of Safeguards Information	
1, 2	12/17/2018	12/21/2018	IP 71130.08	000740	Fitness For Duty Program	
<b>CYBER SECURITY</b>						1
1, 2	03/04/2019	03/08/2019	IP 71130.10P	000741	Cyber Security	
1, 2	03/18/2019	03/22/2019	IP 71130.10P	000741	Cyber Security	
<b>EP PROGRAM INSPECTION</b>						3
1, 2	03/11/2019	03/15/2019	IP 71114.02	000717	Alert and Notification System Testing	
1, 2	03/11/2019	03/15/2019	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1, 2	03/11/2019	03/15/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1, 2	03/11/2019	03/15/2019	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1, 2	03/11/2019	03/15/2019	IP 71151	001397	Performance Indicator Verification	

# IP 22 Inspection Activity Plan Report

<b>FORCE-ON-FORCE PLANNING AND INSPECTION</b>						<b>8</b>
1, 2	07/15/2019	07/19/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1, 2	08/05/2019	08/09/2019	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
<b>TRIENNIAL HEAT SINK PERFORMANCE</b>						<b>1</b>
1, 2	07/22/2019	07/26/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
<b>RP PUBLIC</b>						<b>2</b>
1, 2	07/29/2019	08/02/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1, 2	07/29/2019	08/02/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1, 2	07/29/2019	08/02/2019	IP 71151	000746	Performance Indicator Verification	
<b>CATAWBA INITIAL LICENSE EXAM</b>						<b>3</b>
1, 2	08/05/2019	08/09/2019	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1, 2	09/09/2019	09/20/2019	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
<b>UNIT 2 IN-SERVICE INSPECTION</b>						<b>1</b>
2	09/23/2019	09/27/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>UNIT 2 SG IN-SERVICE INSPECTION</b>						<b>1</b>
2	09/23/2019	09/27/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
<b>RP RADHAZARDS &amp; TRANS</b>						<b>2</b>
1, 2	09/23/2019	09/27/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1, 2	09/23/2019	09/27/2019	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
<b>DESIGN BASES ASSURANCE INSPECTION (PROGRAM)</b>						<b>1</b>
1, 2	10/28/2019	11/01/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1, 2	11/18/2019	11/22/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
<b>SECURITY BASELINE INSPECTION</b>						<b>1</b>
1, 2	11/04/2019	11/08/2019	IP 71130.02	000734	Access Control	
1, 2	11/04/2019	11/08/2019	IP 71151	001338	Performance Indicator Verification	