



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200  
ATLANTA, GEORGIA 30303-1200

March 2, 2022

Kim Maza  
Site Vice President  
Shearon Harris Nuclear Power Plant  
5413 Shearon Harris Rd.  
M/C HNP01  
New Hill, NC 27562-0165

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR  
POWER PLANT, UNIT 1 (REPORT 05000400/2021006)

Dear Ms. Maza:

The NRC has completed its end-of-cycle performance assessment of Shearon Harris Nuclear Power Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2021, through December 31, 2021. 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 baseline inspection program was completed at your facility as defined in Inspection Manual Chapter 2515, "Light-Water Reactor Inspection Program - Operations Phase."

The NRC determined the performance at Shearon Harris Nuclear Power Plant 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, 2023. 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 any changes.

In response to the COVID-19 public health emergency (PHE), the NRC adjusted inspection plans and schedules in order to safeguard the health and safety of both NRC and licensee staff while still effectively implementing the ROP. While the PHE continues, overall conditions throughout the country support performance of our inspection and oversight activities to return to normal onsite presence by our resident and region-based inspectors and completion of nominal baseline inspection samples. We continue to monitor site-specific conditions and as discussed in our November 2, 2021 memo, "Implementation of Inspection Programs Following Re-Entry from the Public Health Emergency for the Reactor Safety Program" (ML21295A302),

it may be necessary to alter how and when we perform our inspection and oversight activities as we balance the importance of protecting the health and safety of our staff with the need to conduct effective oversight that supports the NRC's critical safety mission. For inspections requiring extensive coordination with offsite organizations, such as evaluated emergency preparedness exercises, NRC guidance and frequently asked questions for security and emergency preparedness can be found here: <https://www.nrc.gov/about-nrc/covid-19/security-ep/>. Similarly, the NRC has developed guidance if force-on-force inspections cannot be completed as scheduled due to an emergency, such as the COVID-19 PHE. These changes help ensure the health and safety of both NRC and licensee staff while maintaining the NRC's important safety and security mission during the COVID-19 PHE. The attached inspection plan is accurate on the date of issuance but remains subject to change based on approval of potential exemption requests or other changes needed due to changing conditions in the COVID-19 PHE. NRC staff will contact your appropriate regulatory affairs staff in order to coordinate inspection planning and scheduling.

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 301-415-1321 with any questions you have regarding this letter.

Sincerely,

Stewart N. Bailey

Digitally signed by Stewart N.  
Bailey  
Date: 2022.03.02 10:10:21 -05'00'

Stewart Bailey, Chief  
Reactor Projects Branch 4  
Division of Reactor Projects

Docket No.: 50-400  
License No.: NPF-63

Enclosure:  
Harris Inspection/Activity Plan  
(03/01/2022- 12/31/2023)

cc Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR  
POWER PLANT, UNIT 2 (REPORT 05000400/2021006) DATED March 2, 2022

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OFFICIAL AGENCY RECORD

# Site Inspection Activity Plan

## Harris

03/01/2022 - 12/31/2023

Unit	Start	End	Activity	CAC	Title	Staff Count
<b>DESIGN BASES ASSURANCE INSPECTION (PROGRAMS)</b>						3
1	4/11/2022	4/15/2022	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
1	4/25/2022	4/29/2022	IP 71111.21N.02	001645	Design-Basis Capability of Power-Operated Valves Under 10 CFR 50.55a Requirements	
<b>PROBLEM IDENTIFICATION &amp; RESOLUTION INSPECTION</b>						4
1	5/23/2022	5/27/2022	IP 71152B	000747	Problem Identification and Resolution	
1	6/6/2022	6/10/2022	IP 71152B	000747	Problem Identification and Resolution	
<b>MATERIAL CONTROL &amp; ACCOUNTING</b>						1
1	6/13/2022	6/17/2022	IP 71130.11	000742	Material Control and Accounting (MC&A)	
<b>TRIENNIAL HEAT SINK PERFORMANCE</b>						1
1	7/11/2022	7/15/2022	IP 71111.07SIX	000700	Heat Exchanger/Sink Performance	
1	7/11/2022	7/15/2022	IP 71111.07T	000700	Heat Exchanger/Sink Performance	
<b>SECURITY BASELINE INSPECTION</b>						1
1	8/8/2022	8/12/2022	IP 71130.02	000734	Access Control	
1	8/8/2022	8/12/2022	IP 71130.09	001656	Security Plan Changes	
1	8/8/2022	8/12/2022	IP 71151	001338	Performance Indicator Verification	
<b>EMERGENCY PREPAREDNESS PROGRAM INSPECTION</b>						2
1	8/29/2022	9/2/2022	IP 71114.02	000717	Alert and Notification System Testing	
1	8/29/2022	9/2/2022	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	8/29/2022	9/2/2022	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	8/29/2022	9/2/2022	IP 71114.05	000720	Maintenance of Emergency Preparedness	
1	8/29/2022	9/2/2022	IP 71151	001397	Performance Indicator Verification	
<b>HARRIS INITIAL LICENSE EXAM</b>						4
1	8/15/2022	8/19/2022	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	9/19/2022	9/30/2022	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	
<b>UNIT 1 POST-APPROVAL LICENSE RENEWAL PHASE 1</b>						1
1	10/17/2022	10/21/2022	IP 71003	000687	Post-Approval Site Inspection for License Renewal	
<b>UNIT 1 IN-SERVICE INSPECTION</b>						1
1	10/17/2022	10/21/2022	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
<b>RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION</b>						3
1	10/17/2022	10/21/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/17/2022	10/21/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/17/2022	10/21/2022	IP 71124.04	000728	Occupational Dose Assessment	

# Site Inspection Activity Plan

1	10/17/2022	10/21/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	10/31/2022	11/4/2022	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/31/2022	11/4/2022	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/31/2022	11/4/2022	IP 71124.04	000728	Occupational Dose Assessment	
1	10/31/2022	11/4/2022	IP 71124.05	000729	Radiation Monitoring Instrumentation	
<b>DESIGN BASES ASSURANCE INSPECTION (TEAMS)</b>						6
1	1/30/2023	2/3/2023	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	2/13/2023	2/17/2023	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
<b>SECURITY BASELINE INSPECTION</b>						3
1	2/27/2023	3/3/2023	IP 71130.05	000737	Protective Strategy Evaluation	
<b>TARGET SET INSPECTION</b>						2
1	3/6/2023	3/10/2023	IP 71130.14	000743	Review of Power Reactor Target Sets	
<b>CYBER SECURITY INSPECTION</b>						2
1	3/20/2023	3/24/2023	IP 71130.10	000741	Cybersecurity	
<b>EMERGENCY PREPAREDNESS EXERCISE INSPECTION</b>						5
1	4/24/2023	4/28/2023	IP 71114.01	000716	Exercise Evaluation	
1	4/24/2023	4/28/2023	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	4/24/2023	4/28/2023	IP 71151	001397	Performance Indicator Verification	
<b>RP OCCUPATIONAL AND PUBLIC RADIATION SAFETY BASELINE</b>						3
1	6/26/2023	6/30/2023	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	6/26/2023	6/30/2023	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	6/26/2023	6/30/2023	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	6/26/2023	6/30/2023	IP 71124.08	000732	Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation	
<b>SECURITY BASELINE INSPECTION</b>						3
1	6/26/2023	6/30/2023	IP 71130.02	000734	Access Control	
1	6/26/2023	6/30/2023	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	6/26/2023	6/30/2023	IP 71130.07	000739	Security Training	
1	6/26/2023	6/30/2023	IP 71130.09	001656	Security Plan Changes	
1	6/26/2023	6/30/2023	IP 71151	001338	Performance Indicator Verification	
<b>HARRIS REQUAL INSPECTION</b>						2
1	9/25/2023	9/29/2023	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance	
<b>HARRIS INITIAL LICENSE EXAM</b>						3
1	10/30/2023	11/3/2023	OV	000956	FB-OR-ONSITE VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	12/4/2023	12/15/2023	EXAD	000500	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	