



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

March 4, 2019

Tanya Hamilton
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 – NRC INSPECTION REPORT 05000400/2018006

Dear Ms. Hamilton:

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, 2018, through December 31, 2018. 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 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, 2020. 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. You should be aware that the agency has proposed changes regarding engineering inspections (SECY-18-0113, "Recommendations for Modifying the Reactor Oversight Process Engineering Inspections") and is drafting proposed changes to the ROP for Commission consideration. Should the Commission approve changes to the ROP, the engineering and other region-based inspections are subject to change in scope, as well as schedule, beginning in January 2020. 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.

The NRC also plans to conduct the following infrequently performed inspection: Inspection Procedure 71007, "Reactor Vessel Head Replacement Inspection." Additionally, the NRC will conduct Temporary Instruction (TI) 2515/194, "Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)," during the week of May 13, 2019.

This letter 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 me at 404-997-4621 with any questions you have regarding this letter.

Sincerely,

/RA/

Lundy F. Pressley, Acting Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure: Harris Inspection/Activity Plan

cc Distribution via ListServ

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POWER PLANT – NRC INSPECTION REPORT 05000400/2018006
March 4, 2019

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OFFICE	RII:DRP	RII:DRP	RII: DRP	RII: DRP	
NAME	DJackson	JDodson	PNiebaum	LPressley	
DATE	2/ 26 /2019	2/ 26 /2019	2/ 26 /2019	2/ 26 /2019	

OFFICIAL AGENCY RECORD

IP 22 Inspection Activity Plan Report

Harris

03/01/2019 - 12/31/2020

Unit	Start	End	Activity	CAC	Title	Staff Count
DESIGN BASES ASSURANCE INSPECTION (PROGRAM)						3
1	03/04/2019	03/08/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
1	03/18/2019	03/22/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
EMERGENCY PREPAREDNESS EXERCISE						3
1	04/29/2019	05/03/2019	IP 71114.01	000716	Exercise Evaluation	
1	04/29/2019	05/03/2019	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	04/29/2019	05/03/2019	IP 71114.08	000723	Exercise Evaluation □ Scenario Review	
1	04/29/2019	05/03/2019	IP 71151	001397	Performance Indicator Verification	
TI-194 OPEN PHASE CONDITION						1
1	05/13/2019	05/17/2019	TI 2515/194	000512	Inspection of the Licensee's Implementation of Industry Initiative Associated With the Open Phase Condition Design Vulnerabilities In Electric Power Systems (NRC Bulletin 2012-01)	
HARRIS REQUAL INSPECTION						2
1	06/10/2019	06/14/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)	
TRIENNIAL HEAT SINK PERFORMANCE						1
1	06/17/2019	06/21/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
SECURITY BASELINE INSPECTION						3
1	06/17/2019	06/21/2019	IP 71130.02	000734	Access Control	
1	06/17/2019	06/21/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	06/17/2019	06/21/2019	IP 71130.07	000739	Security Training	
1	06/17/2019	06/21/2019	IP 71151	001338	Performance Indicator Verification	
RP Public Rad Safety Inspection						2
1	07/15/2019	07/19/2019	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/15/2019	07/19/2019	IP 71124.07	000731	Radiological Environmental Monitoring Program	
RVH REPLACEMENT - DESIGN AND PLANNING INSPECTION						2
1	07/29/2019	08/02/2019	IP 71007	000689	Reactor Vessel Head Replacement Inspection	

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

Harris

03/01/2019 - 12/31/2020

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PROBLEM IDENTIFICATION AND RESOLUTION						4
1	08/12/2019	08/16/2019	IP 71152B	000747	Problem Identification and Resolution	
1	08/26/2019	08/30/2019	IP 71152B	000747	Problem Identification and Resolution	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 1						3
1	10/21/2019	10/25/2019	IP 71007	000689	Reactor Vessel Head Replacement Inspection	
1	10/21/2019	10/25/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	10/21/2019	10/25/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	10/21/2019	10/25/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	10/21/2019	10/25/2019	IP 71124.04	000728	Occupational Dose Assessment	
1	10/21/2019	10/25/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
UNIT 1 IN-SERVICE INSPECTION +SG +RVH						5
1	10/21/2019	10/25/2019	IP 71007	000689	Reactor Vessel Head Replacement Inspection	
1	10/21/2019	10/25/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
1	11/04/2019	11/08/2019	IP 71007	000689	Reactor Vessel Head Replacement Inspection	
1	11/04/2019	11/08/2019	IP 71111.08P	000702	Inservice Inspection Activities (PWR)	
RP OCCUPATIONAL RAD SAFETY BASELINE INSPECTION – WEEK 2						3
1	11/18/2019	11/22/2019	IP 71007	000689	Reactor Vessel Head Replacement Inspection	
1	11/18/2019	11/22/2019	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	11/18/2019	11/22/2019	IP 71124.02	000726	Occupational ALARA Planning and Controls	
1	11/18/2019	11/22/2019	IP 71124.03	000727	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/18/2019	11/22/2019	IP 71124.04	000728	Occupational Dose Assessment	
1	11/18/2019	11/22/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
CYBER SECURITY						4
1	01/27/2020	01/31/2020	IP 71130.10P	000741	Cyber Security	
1	02/10/2020	02/14/2020	IP 71130.10P	000741	Cyber Security	
SECURITY BASELINE INSPECTION						3
1	02/24/2020	02/28/2020	IP 71130.05	000737	Protective Strategy Evaluation	
DESIGN BASES ASSURANCE INSPECTION						6
1	03/16/2020	03/20/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	
1	03/30/2020	04/03/2020	IP 71111.21M	000713	Design Bases Assurance Inspection (Teams)	

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TARGET SET						2
1	05/04/2020	05/08/2020	IP 71130.14	000743	Review of Power Reactor Target Sets	
SECURITY BASELINE INSPECTION						1
1	05/18/2020	05/22/2020	IP 71130.02	000734	Access Control	
1	05/18/2020	05/22/2020	IP 71151	001338	Performance Indicator Verification	
HARRIS INITIAL LICENSE EXAM						3
1	10/12/2020	10/16/2020	OV	000956	VALIDATION OF INITIAL LICENSE EXAMINATION (OV)	
1	11/16/2020	11/20/2020	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
RP OCCUPATIONAL RAD SAFETY RAD HAZARDS, PUBLIC, & TRANSPORTATION BASELINE INSPECTION						4
1	11/16/2020	11/20/2020	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	11/16/2020	11/20/2020	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	11/16/2020	11/20/2020	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	11/16/2020	11/20/2020	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	