



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

February 28, 2018

Tanya M. 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 REPORTS 05000400/2017006,
05000400/2017402, 05000400/2017501**

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, 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 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, 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 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.

T. Hamilton

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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 404-997-4609 with any questions you have regarding this letter.

Sincerely,

/RA/

Steven D. Rose, 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

T. Hamilton

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ADAMS Accession No. ML 18059A088

OFFICE	RII:DRP	RII:DRP	RII: DRP	RII: DRP	
NAME	DJackson	JDodson	WDeschaine	SRose	
DATE	2/23/2018	2/27/2018	2/27/2018	2/26/2018	

OFFICIAL AGENCY RECORD

IP 22 Inspection Activity Plan Report

Harris

03/01/2018 - 12/31/2019

Unit	Start	End	Activity	CAC	Title	Staff Count
HARRIS INITIAL LICENSE EXAM						3
1	03/05/2018	03/16/2018	EXAD	000500	LICENSE EXAM ADMINISTRATION (EXAD)	
EP PROGRAM INSPECTION						2
1	03/26/2018	03/30/2018	IP 71114.02	000717	Alert and Notification System Testing	
1	03/26/2018	03/30/2018	IP 71114.03	000718	Emergency Response Organization Staffing and Augmentation System	
1	03/26/2018	03/30/2018	IP 71114.04	000719	Emergency Action Level and Emergency Plan Changes	
1	03/26/2018	03/30/2018	IP 71114.05	000720	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	03/26/2018	03/30/2018	IP 71151	001397	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						1
1	03/26/2018	03/30/2018	IP 71130.02	000734	Access Control	
1	03/26/2018	03/30/2018	IP 71151	001338	Performance Indicator Verification	
UNIT 1 IN-SERVICE INSPECTION & RVH EXAM						2
1	04/09/2018	04/13/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
1	04/16/2018	04/20/2018	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP RAD HAZARDS & TRANSPORTATION						2
1	04/16/2018	04/20/2018	IP 71124.01	000725	Radiological Hazard Assessment and Exposure Controls	
1	04/16/2018	04/20/2018	IP 71124.08	000732	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
FORCE-ON-FORCE PLANNING & EXERCISE WEEK						7
1	07/30/2018	08/03/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
1	08/20/2018	08/24/2018	IP 71130.03	000735	Contingency Response - Force-On-Force Testing	
TRIENNIAL FIRE PROTECTION INSPECTION						5
1	08/13/2018	08/17/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
1	08/27/2018	08/31/2018	IP 71111.05XT	000697	Fire Protection - NFPA 805 (Triennial)	
EVALUATIONS OF CHANGES, TESTS AND EXPERIMENTS						3
1	10/22/2018	10/26/2018	IP 71007	000689	Reactor Vessel Head Replacement Inspection	
1	10/22/2018	10/26/2018	IP 71111.17T	000709	Evaluations of Changes, Tests, and Experiments	

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

DUKE CORP AA/FFD/SGI SECURITY INSPECTION						2
1	11/05/2018	11/09/2018	IP 71130.01	000733	Access Authorization	
1	11/05/2018	11/09/2018	IP 71130.06	000738	Protection of Safeguards Information	
1	11/05/2018	11/09/2018	IP 71130.08	000740	Fitness For Duty Program	
RP PUBLIC						2
1	12/10/2018	12/14/2018	IP 71124.06	000730	Radioactive Gaseous and Liquid Effluent Treatment	
1	12/10/2018	12/14/2018	IP 71124.07	000731	Radiological Environmental Monitoring Program	
1	12/10/2018	12/14/2018	IP 71151	000746	Performance Indicator Verification	
SECURITY BASELINE INSPECTION						1
1	01/07/2019	01/11/2019	IP 71130.01	000733	Access Authorization	
1	01/07/2019	01/11/2019	IP 71130.06	000738	Protection of Safeguards Information	
1	01/07/2019	01/11/2019	IP 71130.08	000740	Fitness For Duty Program	
DESIGN BASES ASSURANCE INSPECTION (PROGRAM)						3
1	02/04/2019	02/08/2019	IP 71111.21N	000714	Design Bases Assurance Inspection (Programs)	
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)	
EP EXERCISE INSPECTION						6
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	
CYBER SECURITY						1
1	06/03/2019	06/07/2019	IP 71130.10P	000741	Cyber Security	
1	06/17/2019	06/21/2019	IP 71130.10P	000741	Cyber Security	
TRIENNIAL HEAT SINK PERFORMANCE						1
1	06/17/2019	06/21/2019	IP 71111.07T	000700	Heat Sink Performance -Triennial	
SECURITY BASELINE INSPECTION						2
1	06/24/2019	06/28/2019	IP 71130.02	000734	Access Control	
1	06/24/2019	06/28/2019	IP 71130.04	000736	Equipment Performance, Testing, and Maintenance	
1	06/24/2019	06/28/2019	IP 71130.07	000739	Security Training	
1	06/24/2019	06/28/2019	IP 71151	001338	Performance Indicator Verification	
HARRIS REQUAL INSPECTION						2
1	08/05/2019	08/09/2019	IP 71111.11B	000704	Licensed Operator Requalification Program and Licensed Operator Performance - Biennial	

IP 22 Inspection Activity Plan Report

MC&A TRIENNIAL INSPECTION						1
1	10/01/2019	12/31/2019	IP 71130.11	000742	Material Control and Accounting (MC&A)	
UNIT 1 IN-SERVICE INSPECTION						1
1	10/21/2019	10/25/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
UNIT 1 SG IN-SERVICE INSPECTION						1
1	10/21/2019	10/25/2019	IP 71111.08P	000702	Inservice Inspection Activities - PWR	
RP OCCUPATIONAL - WEEK 1						3
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	000729	Occupational Dose Assessment	
1	10/21/2019	10/25/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	10/21/2019	10/25/2019	IP 71151	000746	Performance Indicator Verification	
RP OCCUPATIONAL - WEEK 2						3
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	000729	Occupational Dose Assessment	
1	11/18/2019	11/22/2019	IP 71124.05	000729	Radiation Monitoring Instrumentation	
1	11/18/2019	11/22/2019	IP 71151	000746	Performance Indicator Verification	
PROBLEM IDENTIFICATION AND RESOLUTION						5
1	11/18/2019	11/22/2019	IP 71152B	000747	Problem Identification and Resolution	
1	12/09/2019	12/13/2019	IP 71152B	000747	Problem Identification and Resolution	