



**UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II**

245 PEACHTREE CENTER AVENUE NE, SUITE 1200
ATLANTA, GEORGIA 30303-1257

March 1, 2017

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 REPORT 05000400/2016006**

Dear Ms. Hamilton:

The NRC has completed its end-of-cycle performance assessment of the Shearon Harris Nuclear Power Plant, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016 through December 31, 2016. 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 the 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, 2018. 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. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, Temporary Instruction 2515/192, Inspection of the Licensee's Interim Compensatory Measures Associated with an Open Phase Condition (OPC) Design Vulnerability in Electric Power Systems, will be conducted before March 31, 2017.

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 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 Nos.: 50-400
License Nos.: NPF-63

Enclosure:
Harris Inspection/Activity Plan
(03/01/2017 – 12/31/2018)

cc Distribution via ListServ

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR POWER
PLANT – NRC INSPECTION REPORT 05000400/2016006 March 1, 2017

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ADAMS Accession Number: ML17060A191

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Harris
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		TI 192 - TI-192		2
1	01/01/2017 03/31/2017	IP 2515/192	Inspection of the Licensee's Interim Compensatory Measures Associated with the Open Phase Condition	
		ASM EP - 2017 EP ASM & RES BASELINE		2
1	01/01/2017 12/31/2017	IP 7111406	Drill Evaluation	
		DBAI - DESIGN BASES ASSURANCE INSPECTION (TEAM)		6
1	02/27/2017 03/03/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1	03/20/2017 03/24/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
1	04/03/2017 04/07/2017	IP 7111121M	Component Design Bases Inspection (Teams)	
		EP - EP EXERCISE		6
1	04/24/2017 04/28/2017	IP 7111401	Exercise Evaluation	
1	04/24/2017 04/28/2017	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	04/24/2017 04/28/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1	04/24/2017 04/28/2017	IP 71151	Performance Indicator Verification	
		RP - RP PUBLIC RAD SAFETY BASELINE		4
1	07/17/2017 07/21/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	07/17/2017 07/21/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/17/2017 07/21/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/17/2017 07/21/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
1	07/17/2017 07/21/2017	IP 71151	Performance Indicator Verification	
		OL RQ - REQUAL INSPECTION		2
1	08/07/2017 08/11/2017	IP 7111111B	Licensed Operator Requalification Program	
		PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		4
1	09/11/2017 09/15/2017	IP 71152B	Problem Identification and Resolution	
1	09/25/2017 09/29/2017	IP 71152B	Problem Identification and Resolution	
		OL EXAM - INITIAL LICENSE EXAM PREP		3
1	02/05/2018 02/09/2018	V23509	HARRIS/MARCH 2018 INITIAL EXAM AT POWER FACILITIES	
		OL EXAM - INITIAL LICENSE EXAM		3
1	03/05/2018 03/16/2018	V23509	HARRIS/MARCH 2018 INITIAL EXAM AT POWER FACILITIES	
		EP - EP PROGRAM INSPECTION		3
1	03/26/2018 03/30/2018	IP 7111402	Alert and Notification System Testing	
1	03/26/2018 03/30/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	03/26/2018 03/30/2018	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	03/26/2018 03/30/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	

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

Enclosure

Harris
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
EP - EP PROGRAM INSPECTION					3
1	03/26/2018	03/30/2018	IP 71151	Performance Indicator Verification	
ISI - UNIT 1 IN-SERVICE INSPECTION & RVH EXAM					2
1	04/16/2018	04/20/2018	IP 7111108P	Inservice Inspection Activities - PWR	
RP - RP OCCUPATIONAL - WEEK 1					2
1	04/16/2018	04/20/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/16/2018	04/20/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/16/2018	04/20/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/16/2018	04/20/2018	IP 71124.04	Occupational Dose Assessment	
1	04/16/2018	04/20/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/16/2018	04/20/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	04/16/2018	04/20/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
RP - RP OCCUPATIONAL - WEEK 2					
1	05/14/2018	05/18/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/14/2018	05/18/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/14/2018	05/18/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/14/2018	05/18/2018	IP 71124.04	Occupational Dose Assessment	
1	05/14/2018	05/18/2018	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/14/2018	05/18/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	05/14/2018	05/18/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
TFPI - TRIENNIAL FIRE PROTECTION INSPECTION					
1	08/27/2018	08/31/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
1	09/10/2018	09/14/2018	IP 7111105X	Fire Protection - NFPA 805 (Triennial)	
MODS - PLANT MODIFICATIONS INSPECTION					3
1	10/22/2018	10/26/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	

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This report shows only on-site and announced inspection procedures.