



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

March 04, 2014

Mr. Ernie Kapopoulos  
Site Vice President  
Duke Energy Progress, Inc.  
Shearon Harris Nuclear Power Plant  
P.O. Box 165, Mail Code: Zone 1  
New Hill, NC 27562-0165

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR POWER  
PLANT – NRC INSPECTION REPORT 05000400/2013001**

Dear Mr. Kapopoulos:

On February 18, 2014, the Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Shearon Harris Nuclear Power Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1 through December 31, 2013. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information.

The NRC determined that overall, Shearon Harris Nuclear Power Plant, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Shearon Harris Nuclear Power Plant, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

Plant performance for the first quarter of the assessment period was within the Regulatory Response column of the NRC's ROP Action Matrix based on one inspection finding being classified as having low-to-moderate safety significance (i.e., White) and all PIs indicated that your performance was within the nominal, expected range (i.e., Green). The White finding involved the failure to adequately maintain the ventilation system equipment of the Emergency Operations Facility for protracted periods of time. This White finding was closed on March 22, 2013, as documented in our letter to you dated April 23, 2013 (ADAMS Accession No. ML13114A069). Unit 1 returned to the Licensee Response Column of the ROP Action Matrix in the second quarter of 2013.

The enclosed inspection plan lists the inspections scheduled through June 30, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the mid-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security related inspections, which will be sent via separate, non-publicly available correspondence.

Additionally, an NRC audit of licensee efforts towards compliance with Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events" is ongoing. This audit includes an onsite component in order for the NRC to evaluate mitigating strategies as described in licensee submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 will reflect this revision to Inspection Manual Chapter (IMC) 0310. The calendar year (CY) 2013 end-of-cycle assessments were conducted using the IMC 0310 guidance in effect in CY 2013 (dated October 28, 2011). Cross-cutting aspects identified in 2013 using the 2013 terminology will be converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

In accordance with 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 Agencywide Document Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

E. Kapopoulos

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Please contact George Hopper at 404-997-4645 with any questions you may have regarding this letter.

Sincerely,

***/RA/***

Richard P. Croteau, Director  
Division of Reactor Projects

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

Enclosure: Harris Inspection/Activity Plan  
(03/01/2014 – 06/30/2015)

cc Distribution via ListServ

E. Kapopoulos

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Please contact George Hopper at 404-997-4645 with any questions you may have regarding this letter.

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ADAMS:  Yes      ACCESSION NUMBER: \_\_\_\_\_       SUNSI REVIEW COMPLETE       FORM 665 ATTACHED

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NAME	JDodson	GHopper	WJones	RCroteau			
DATE	02/25/2014	02/25/2014		02/26/2014			
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E. Kapopoulos

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Letter to Ernie Kapopoulos from Richard P. Croteau dated March 4, 2014

SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR POWER  
PLANT – NRC INSPECTION REPORT 05000400/2013001

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Institute of Nuclear Power Operations (INPO)

ROP Assessment

Harris

## Inspection / Activity Plan

03/01/2014 - 06/30/2015

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
			<b>TFPI</b>	<b>- TRIENNIAL FIRE PROTECTION INSP</b>	10
1	04/21/2014	04/25/2014	IP 711105x	Fire Protection - NFPA 805 (Triennial)	
1	05/05/2014	05/09/2014	IP 711105x	Fire Protection - NFPA 805 (Triennial)	
			<b>EP</b>	<b>- EP PROGRAM INSPECTION</b>	3
1	04/07/2014	04/11/2014	IP 7111402	Alert and Notification System Testing	
1	04/07/2014	04/11/2014	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	04/07/2014	04/11/2014	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	04/07/2014	04/11/2014	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	04/07/2014	04/11/2014	IP 71151	Performance Indicator Verification	
			<b>CDBI</b>	<b>- COMPONENT DESIGN BASES INSPECTION</b>	7
1	05/19/2014	05/23/2014	IP 7111121	Component Design Bases Inspection	
1	06/23/2014	06/27/2014	IP 7111121	Component Design Bases Inspection	
1	07/07/2014	07/11/2014	IP 7111121	Component Design Bases Inspection	
1	07/21/2014	07/25/2014	IP 7111121	Component Design Bases Inspection	
			<b>RP</b>	<b>- RP PUBLIC RADIATION SAFETY BASELINE</b>	3
1	08/18/2014	08/22/2014	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	08/18/2014	08/22/2014	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	08/18/2014	08/22/2014	IP 71124.07	Radiological Environmental Monitoring Program	
1	08/18/2014	08/22/2014	IP 71151	Performance Indicator Verification	
			<b>RP</b>	<b>- TRANSPORTATION</b>	1
1	10/27/2014	10/31/2014	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			<b>EP</b>	<b>- EP EXERCISE</b>	1
1	03/09/2015	03/13/2015	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	03/09/2015	03/13/2015	IP 7111407	Exercise Evaluation - Hostile Action (HA) Event	
1	03/09/2015	03/13/2015	IP 71151	Performance Indicator Verification	
			<b>ISI</b>	<b>- UNIT 1 IN-SERVICE INSPECTION &amp; RVH EXAM</b>	2
1	04/27/2015	05/01/2015	IP 711108P	Inservice Inspection Activities - PWR	
			<b>RP</b>	<b>- RP OCCUPATIONAL BASELINE WEEK 1</b>	3
1	04/27/2015	05/01/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/27/2015	05/01/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/27/2015	05/01/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/27/2015	05/01/2015	IP 71124.04	Occupational Dose Assessment	
1	04/27/2015	05/01/2015	IP 71124.05	Radiation Monitoring Instrumentation	

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

Enclosure

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	04/27/2015	05/01/2015	RP - RP OCCUPATIONAL BASELINE WEEK 1		3
			IP 71151	Performance Indicator Verification	
1	05/04/2015	05/09/2015	SGISI - UNIT 1 SG IN-SERVICE INSPECTION		1
			IP 7111108P	Inservice Inspection Activities - PWR	
1	05/11/2015	05/15/2015	RP - RP OCCUPATIONAL BASELINE WEEK 2		2
			IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/11/2015	05/15/2015	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/11/2015	05/15/2015	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/11/2015	05/15/2015	IP 71124.04	Occupational Dose Assessment	
1	05/11/2015	05/15/2015	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/11/2015	05/15/2015	IP 71151	Performance Indicator Verification	

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