



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

September 1, 2011

Carolina Power and Light Company
Mr. William Jefferson, Jr.
Vice President
Shearon Harris Nuclear Power Plant
P. O. Box 165, Mail Code: Zone 1
New Hill, North Carolina 27562-0165

**SUBJECT: MID-CYCLE LETTER FOR SHEARON HARRIS NUCLEAR POWER PLANT
(REPORT 05000400/2011006)**

Dear Mr. Jefferson:

On August 10, 2011, the NRC completed its mid-cycle performance review of the Shearon Harris Nuclear Power Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2010, through June 30, 2011. 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. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined the performance at Shearon Harris 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.

The enclosed inspection plan lists the inspections scheduled through December 31, 2012. 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 end-of-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. In addition to ROP baseline inspection activities, we also plan on conducting initial operator licensing examinations.

In the days following the Fukushima Dai-ichi nuclear accident in Japan, the Commission directed the staff to establish a senior-level agency task force to conduct a methodical and systematic review of the NRC's processes and regulations to determine whether the agency should make additional improvements to its regulatory system. The NRC has since completed Temporary Instruction (TI) 183, "Follow-up to Fukushima Dai-ichi Nuclear Station Fuel Damage Event," and TI-184, "Availability and Readiness Inspection of Severe Accident Management Guidelines (SAMGs)" at your facility. Results of these inspections can be found here: <http://www.nrc.gov/japan/japan-activities.html>. Additionally, on May 11, 2011, the agency issued NRC Bulletin 2011-01, "Mitigating Strategies," to confirm compliance with Order EA-02-026, subsequently imposed license conditions, and 10 CFR 50.54(hh)(2), and to determine the status of licensee mitigating strategies programs. On July 12, 2011, the NRC's Task Force made its recommendations to the Commission in its report, "Recommendations for Enhancing Reactor Safety in the 21st Century: The Near-Term Task Force Review of Insights from the Fukushima Dai-ichi Accident." The Commission is currently reviewing the Task Force's recommendations to determine whether additional actions may be warranted.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be made 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) 997-4603 with any questions you may have regarding this letter.

Sincerely,

/RA/

Randall A. Musser, Chief
Reactor Projects Branch 4
Division of Reactor Projects

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

Enclosure: Harris Inspection/Activity Plan

cc w/encl.: (See page 3)

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cc w/encl.: (See page 3)

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NUMBER: PKG: ML112440125 X SUNSI REVIEW COMPLETE

OFFICE	RII:DRP	RII:DRP	RII:DRP				
SIGNATURE	JGW1 by email	JSD	RAM				
NAME	JWorosilo	JDodson	RMusser				
DATE	08/18/2011	08/12/2011	08/29/2011				
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

cc w/encl:

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CPL

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Letter to William Jefferson, Jr. from Randall A. Musser dated September 1, 2011

SUBJECT: MID-CYCLE LETTER FOR- SHEARON HARRIS NUCLEAR POWER PLANT
(REPORT 05000400/2011006)

Distribution w/encl:

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L. Douglas, RII EICS

OE Mail

RIDSNRRDIRS

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ROP Reports

Institute of Nuclear Power Operations (INPO)

RidsNrrPMShearonHarris Resource

Unit Number	Planned Dates Start End	Inspection Activity	Title	No. of Staff on Site
		TFPI	- 805 TFPI	8
1	08/29/2011 09/02/2011	IP 7111105x	Fire Protection - NFPA 805 (Triennial)	
1	09/19/2011 09/23/2011	IP 7111105x	Fire Protection - NFPA 805 (Triennial)	
		PSB1EP	- EMERGENCY PREPAREDNESS EXERCISE	5
1	11/28/2011 12/02/2011	IP 7111401	Exercise Evaluation	
1	11/28/2011 12/02/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	11/28/2011 12/02/2011	IP 71151	Performance Indicator Verification	
		PSB1-RP	- BASELINE RP OCCUPATIONAL INSPECTION	3
1	12/05/2011 12/09/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/05/2011 12/09/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	12/05/2011 12/09/2011	IP 71124.04	Occupational Dose Assessment	
		OL EXAM	- INITIAL EXAM PREP	3
1	01/23/2012 01/27/2012	V23367	HARRIS / FEBRUARY 2012 EXAM AT POWER FACILITIES	
		OL EXAM	- INITIAL EXAM - WEEK 1	3
1	02/13/2012 02/17/2012	V23367	HARRIS / FEBRUARY 2012 EXAM AT POWER FACILITIES	
		OL EXAM	- INITIAL EXAM - WEEK 2	3
1	02/20/2012 02/24/2012	V23367	HARRIS / FEBRUARY 2012 EXAM AT POWER FACILITIES	
		EB3 ISI	- UNIT 1 INSERVICE INSPECTION & RPVH EXAMS	2
1	04/30/2012 05/04/2012	IP 7111108P	Inservice Inspection Activities - PWR	
		PSB1-RP	- OCCUPATIONAL RP BASELINE WK1	4
1	04/30/2012 05/04/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	04/30/2012 05/04/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	04/30/2012 05/04/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	04/30/2012 05/04/2012	IP 71124.04	Occupational Dose Assessment	
1	04/30/2012 05/04/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1	04/30/2012 05/04/2012	IP 71151	Performance Indicator Verification	
		PSB1-RP	- OCCUPATIONAL RP BASELINE WK2	4
1	05/14/2012 05/18/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	05/14/2012 05/18/2012	IP 71124.02	Occupational ALARA Planning and Controls	
1	05/14/2012 05/18/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	05/14/2012 05/18/2012	IP 71124.04	Occupational Dose Assessment	
1	05/14/2012 05/18/2012	IP 71124.05	Radiation Monitoring Instrumentation	
1	05/14/2012 05/18/2012	IP 71151	Performance Indicator Verification	
		PSB1EP	- EMERGENCY PREPAREDNESS INSPECTION	1
1	08/20/2012 08/24/2012	IP 7111402	Alert and Notification System Testing	

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
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1	08/20/2012	08/24/2012	PSB1EP IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	1
1	08/20/2012	08/24/2012	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	08/20/2012	08/24/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	08/20/2012	08/24/2012	IP 71151	Performance Indicator Verification	

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