



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

March 5, 2012

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

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR SHEARON HARRIS NUCLEAR
POWER PLANT (NRC INSPECTION REPORT 05000400/2011007)**

Dear Mr. Burton:

On February 15, 2012, the NRC staff completed its end-of-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 January 1, 2011, through December 31, 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 that overall, the 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 inspection at your facility.

The enclosed inspection plan lists the inspections scheduled through June 30, 2013. 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.

We also plan on conducting several infrequently performed inspections which include: licensed operator requalification, and TI 2515/182, "Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping and Tanks."

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:
Brian C. McCabe
Manager, Nuclear Oversight
Shearon Harris Nuclear Power Plant
Progress Energy
Electronic Mail Distribution

Robert J. Duncan II
Vice President
Nuclear Operations
Progress Energy
Electronic Mail Distribution

Donald L. Griffith
Training Manager
Shearon Harris Nuclear Power Plant
Progress Energy
Electronic Mail Distribution

R. Keith Holbrook
Manager, Support Services
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

David H. Corlett
Supervisor
Licensing/Regulatory Programs
Progress Energy
Electronic Mail Distribution

David T. Conley
Senior Counsel
Legal Department
Progress Energy
Electronic Mail Distribution

Donna B. Alexander
Manager, Nuclear Regulatory Affairs
(interim)
Progress Energy
Electronic Mail Distribution

John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, NW
Washington, DC 20037-1128

Joseph W. Donahue
Vice President
Nuclear Oversight
Progress Energy
Electronic Mail Distribution

W. Lee Cox, III, Section Chief
Radiation Protection Section
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

Kelvin Henderson, General Manager
Nuclear Fleet Operations
Progress Energy
Electronic Mail Distribution

Public Service Commission
State of South Carolina
P.O. Box 11649
Columbia, SC 29211

Chairman
North Carolina Utilities Commission
Electronic Mail Distribution

Terrence E. Slake, Manager
Nuclear Plant Security
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

Robert P. Gruber
Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

Chair
Board of County Commissioners of Wake
County
P.O. Box 550
Raleigh, NC 27602

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cc w/encl. (continued)
Ernest J. Kapopoulos Jr.
Plant General Manager
Carolina Power and Light Company
Shearon Harris Nuclear Power Plant
Electronic Mail Distribution

Chair
Board of County Commissioners of
Chatham County
P.O. Box 1809
Pittsboro, NC 27312

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
Shearon Harris Nuclear Power Plant
U.S. NRC
5421 Shearon Harris Rd
New Hill, NC 27562-9998

Unit Number	Planned Dates Start	Planned Dates End	Inspection Activity	Title	No. of Staff on Site
1	04/30/2012	05/04/2012	EB3 ISI IP 7111108P	- UNIT 1 INSERVICE INSPECTION & RPVH EXAMS Inservice Inspection Activities - PWR	2
1	04/30/2012	05/04/2012	PSB1-RP IP 71124.01	- OCCUPATIONAL RP BASELINE WK1 Radiological Hazard Assessment and Exposure Controls	4
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	
1	05/14/2012	05/18/2012	PSB1-RP IP 71124.01	- OCCUPATIONAL RP BASELINE WK2 Radiological Hazard Assessment and Exposure Controls	2
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	
1	08/20/2012	08/24/2012	PSB1EP IP 7111402	- EMERGENCY PREPAREDNESS INSPECTION Alert and Notification System Testing	2
1	08/20/2012	08/24/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
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	
1	09/17/2012	09/21/2012	TI-182 IP 2515/182	- TI-182 BURIED PIPING/TANK - PHASE 1 Review of the Implementation of the Industry Initiative to Control Degradation of Underground Piping	1
1	01/21/2013	01/25/2013	OL RQ IP 7111111B	- REQUAL INSPECTION Licensed Operator Requalification Program	2
1	05/06/2013	05/10/2013	MODS IP 7111117T	- PERM MODS 50.59 INSPECTION Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	4
1	05/20/2013	05/24/2013	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	06/10/2013	06/14/2013	HS IP 7111107T	- TRIENNIAL HEAT SINK PERFORMANCE Heat Sink Performance	1
1	06/17/2013	06/21/2013	PSB1-RP IP 71124.06	- RP PUBLIC RAD SAFETY BASELINE Radioactive Gaseous and Liquid Effluent Treatment	5
1	06/17/2013	06/21/2013	IP 71124.07	Radiological Environmental Monitoring Program	
1	06/17/2013	06/21/2013	IP 71151	Performance Indicator Verification	