



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

March 2, 2005

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

SUBJECT: ANNUAL ASSESSMENT LETTER - SHEARON HARRIS NUCLEAR POWER  
PLANT (NRC INSPECTION REPORT 05000400/2005001)

Dear Mr. Scarola:

On February 9, 2005, the NRC staff completed its end-of-cycle plant performance assessment of the Shearon Harris Nuclear Power Plant. The end-of-cycle review for Harris involved the participation of the reactor technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the period from January 1 through December 31, 2004. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility. This will allow you an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities. This performance review and the enclosed inspection plan do not include physical protection information. A separate end-of-cycle performance review letter, designated and marked as "Exempt from Public Disclosure in accordance with 10 CFR 2.390," will include the physical protection review and a resultant inspection plan.

Overall, Harris operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter, as well as for the second and third quarters of the assessment cycle, was within the Licensee Response Column of the NRC's Action Matrix, based on all inspection findings being classified as having very low safety significance (Green) and all PIs indicating performance at a level requiring no additional NRC oversight (Green).

However, plant performance for the first quarter of the assessment cycle was within the Regulatory Response Column of the NRC's Action Matrix based on the Unplanned Scrams per 7000 Critical Hours PI crossing the Green/White threshold during the last assessment cycle. As discussed in our last Annual Assessment Letter, dated March 3, 2004, The PI became White due to four reactor trips that occurred during calendar year 2003. A Supplemental Inspection using NRC Inspection Procedure 95001 was conducted in September 2003, and determined that your corrective actions for the increased number of reactor trips were adequate. Based on the results of the Supplemental Inspection and the current performance of Harris, we plan to conduct only reactor oversight process (ROP) baseline inspections at your facility through September 30, 2006.

ML050610521-pkg  
ML050610524-ltr  
ML050610529-encl

Also, a previously discussed unresolved item involving the adequacy of cable wrap fire barrier qualification test and installed configurations continues to be reviewed.

Also, as discussed in our Mid-Cycle Performance Review Letter, dated August 30, 2004, the NRC issued a Notice of Violation (NOV) and Proposed Imposition of Civil Penalty to Carolina Power and Light Company (CP&L) on April 7, 2004. CP&L had discriminated against a corporate site access authorization superintendent, when the individual was terminated from his employment on April 26, 1999, for engaging in a protected activity. Prior to the issuance of the NOV, CP&L provided corrective action on this matter in a letter dated March 19, 2004, and on April 29, 2004, paid the civil penalty.

The enclosed inspection plan details the inspections less those related to physical protection scheduled through September 30, 2006. The inspection plan is provided to minimize the resource impact on your staff and to allow for scheduling conflicts and personnel availability to be resolved in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last nine months of the inspection plan are tentative and may be revised at the mid-cycle review meeting.

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).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-562-4530 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Victor M. McCree, Director  
Division of Reactor Projects

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

Enclosure: Shearon Harris Inspection/Activity Plan

cc w/encl: (see page 3)

cc w/encl:

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**Harris**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>OL RQ - REQUAL INSPECTION</b>		<b>2</b>			
1	IP 711111B	Licensed Operator Requalification Program		03/07/2005	03/11/2005	Baseline Inspections
	<b>PS2-EP - EMERGENCY EXERCISE</b>		<b>3</b>			
1	IP 7111401	Exercise Evaluation		04/04/2005	04/08/2005	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		04/04/2005	04/08/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/04/2005	04/08/2005	Baseline Inspections
	<b>MTN-HS - HEAT SINK</b>		<b>2</b>			
1	IP 7111107B	Heat Sink Performance		05/23/2005	05/27/2005	Baseline Inspections
	<b>PB4-PI&amp;R - PROBLEM IDENTIFICATION AND RESOLUTION</b>		<b>4</b>			
1	IP 71152B	Identification and Resolution of Problems		06/13/2005	06/17/2005	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		06/27/2005	07/01/2005	Baseline Inspections
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL PRE INSP VISIT</b>		<b>4</b>			
1	IP 7111105T	Fire Protection		07/25/2005	07/29/2005	Baseline Inspections
	<b>PS-RP - RP PUBLIC</b>		<b>4</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/01/2005	08/05/2005	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/01/2005	08/05/2005	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		08/01/2005	08/05/2005	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program		08/01/2005	08/05/2005	Baseline Inspections
1	IP 71151	Performance Indicator Verification		08/01/2005	08/05/2005	Baseline Inspections
	<b>EB2-TFP - FIRE PROTECTION-TRIENNIAL</b>		<b>4</b>			
1	IP 7111105T	Fire Protection		08/15/2005	08/19/2005	Baseline Inspections
1	IP 7111105T	Fire Protection		08/29/2005	09/02/2005	Baseline Inspections
	<b>OL PREP - INITIAL EXAM PREP</b>		<b>2</b>			
1	V23233	HARRIS/EXAMS AT POWER FACILITIES		01/09/2006	01/13/2006	Not Applicable
	<b>OL EXAM - INITIAL EXAM</b>		<b>3</b>			
1	V23233	HARRIS/EXAMS AT POWER FACILITIES		01/23/2006	02/03/2006	Not Applicable
	<b>EB1-MODS - MODIFICATIONS/10CFR50.59</b>		<b>3</b>			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		02/06/2006	02/10/2006	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		02/06/2006	02/10/2006	Baseline Inspections
	<b>PS2-EP - EP INSPECTION</b>		<b>1</b>			
1	IP 7111402	Alert and Notification System Testing		04/03/2006	04/07/2006	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		04/03/2006	04/07/2006	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		04/03/2006	04/07/2006	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		04/03/2006	04/07/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/03/2006	04/07/2006	Baseline Inspections

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

Enclosure

**Harris**  
**Inspection / Activity Plan**  
**03/01/2005 - 09/30/2006**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates		Inspection Type
				Start	End	
	<b>PS1-RP</b>	<b>- RP BASELINE OCCUPATIONAL WK1</b>	<b>3</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/10/2006	04/14/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/10/2006	04/14/2006	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		04/10/2006	04/14/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/10/2006	04/14/2006	Baseline Inspections
	<b>MTN-ISI</b>	<b>- INSERVICE INSPECTION</b>	<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/17/2006	04/21/2006	Baseline Inspections
	<b>PS1-RP</b>	<b>- RP BASELINE OCCUPATIONAL WK2</b>	<b>3</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/24/2006	04/28/2006	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/24/2006	04/28/2006	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		04/24/2006	04/28/2006	Baseline Inspections
1	IP 71151	Performance Indicator Verification		04/24/2006	04/28/2006	Baseline Inspections
	<b>MTNSGSI</b>	<b>- STEAM GENERATOR ISI</b>	<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/24/2006	04/28/2006	Baseline Inspections
	<b>MTN-MR</b>	<b>- MR EFFECTIVENESS</b>	<b>1</b>			
1	IP 711112B	Maintenance Effectiveness		06/26/2006	06/30/2006	Baseline Inspections
	<b>EB1SSDPC</b>	<b>- SSDPC PRE-INSPECTION VISIT</b>	<b>2</b>			
1	IP 7111121	Safety System Design and Performance Capability		09/18/2006	09/20/2006	Baseline Inspections