



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
61 FORSYTH STREET, SW, SUITE 23T85  
ATLANTA, GEORGIA 30303-8931

September 2, 2008

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

**SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN – SHEARON  
HARRIS NUCLEAR POWER PLANT**

Dear Mr. Burton:

On August 13, 2008, the NRC staff completed its performance review of the Shearon Harris Nuclear Power Plant for the first half of the calendar year 2008 assessment cycle. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results over the previous twelve months. 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 performance review and the enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only-Security Related Information" will include the Physical Protection/Security cornerstone performance review and a resultant inspection plan.

Plant performance for the most recent quarter at Harris Unit 1 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). Therefore, we plan to conduct reactor oversight process (ROP) baseline inspections at your facility. We also plan on conducting several non-ROP inspections involving initial operator licensing examinations, Reactor Coolant System Dissimilar Welds (TI-172), and Emergency Response Organization Drill/Exercise Performance Indicator (TI-175). In addition, TI 2515/173, "Review of the Implementation of the Industry Ground Water Protection Voluntary Initiative", will be performed at your facility prior to August 30, 2010. In the near term, we will contact you to assess your readiness for this inspection and then finalize our schedule accordingly.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through December 31, 2009. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well 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 end-of-cycle review.

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 the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at (404) 562-4603 with any questions you may have regarding this letter or the inspection plan.

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

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**Harris**  
**Inspection / Activity Plan**  
**09/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>EB2-TFP - TRIENNIAL FIRE PROTECTION</b>		<b>9</b>			
1	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		09/22/2008	09/26/2008	Baseline Inspections
1	IP 7111105P	Fire Protection-NFPA 805 Transition Period [Triennial]		10/06/2008	10/10/2008	Baseline Inspections
	<b>OL RQ - REQUAL INSPECTION</b>		<b>3</b>			
1	IP 7111111B	Licensed Operator Requalification Program		01/12/2009	01/16/2009	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM PREP</b>		<b>3</b>			
1	V23298	HARRIS/MARCH 2009 EXAM AT POWER FACILITIES		02/16/2009	02/20/2009	Not Applicable
	<b>PSB1-RP - RP PREINSPECTION VISIT (OCCUPATIONAL)</b>		<b>1</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		02/23/2009	02/25/2009	Baseline Inspections
	<b>PSB1EP - EMERGENCY PREPAREDNESS EXERCISE</b>		<b>3</b>			
1	IP 2515/175	Emergency Response Organization, Drill/Exercise Performance Indicator, Program Review		03/02/2009	03/06/2009	Baseline Inspections
1	IP 7111401	Exercise Evaluation		03/02/2009	03/06/2009	EP Baseline Inspection
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		03/02/2009	03/06/2009	EP Baseline Inspection
1	IP 71151-EP01	Drill/Exercise Performance		03/02/2009	03/06/2009	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		03/02/2009	03/06/2009	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		03/02/2009	03/06/2009	Baseline Inspections
	<b>OL EXAM - INITIAL EXAM WEEK 1</b>		<b>3</b>			
1	V23298	HARRIS/MARCH 2009 EXAM AT POWER FACILITIES		03/09/2009	03/13/2009	Not Applicable
	<b>OL EXAM - INITIAL EXAM WEEK 2</b>		<b>2</b>			
1	V23298	HARRIS/MARCH 2009 EXAM AT POWER FACILITIES		03/16/2009	03/20/2009	Not Applicable
	<b>PSB1-RP - RP OCCUPATIONAL BASELINE WK1(OUTAGE)</b>		<b>2</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/06/2009	04/10/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/06/2009	04/10/2009	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		04/06/2009	04/10/2009	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		04/06/2009	04/10/2009	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		04/06/2009	04/10/2009	Baseline Inspections
	<b>EB3ISI - INSERVICE INSPECTION</b>		<b>1</b>			
1	IP 7111108P	Inservice Inspection Activities - PWR		04/13/2009	04/17/2009	Baseline Inspections
	<b>EB3TI172 - TI-172 RCS DM BUTT WELDS</b>		<b>1</b>			
1	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds		04/13/2009	04/17/2009	Generic Safety Inspectio
	<b>PSB1-RP - RP OCCUPATIONAL BASELINE WK2 (OUTAGE)</b>		<b>2</b>			
1	IP 7112101	Access Control to Radiologically Significant Areas		04/20/2009	04/24/2009	Baseline Inspections
1	IP 7112102	ALARA Planning and Controls		04/20/2009	04/24/2009	Baseline Inspections
1	IP 7112202	Radioactive Material Processing and Transportation		04/20/2009	04/24/2009	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		04/20/2009	04/24/2009	Baseline Inspections

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

**Harris**  
**Inspection / Activity Plan**  
**09/01/2008 - 12/31/2009**

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	<b>PSB1-RP</b>	<b>- RP OCCUPATIONAL BASELINE WK2 (OUTAGE)</b>	<b>2</b>			
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		04/20/2009	04/24/2009	Baseline Inspections
	<b>PI&amp;R</b>	<b>- PROBLEM IDENTIFICATION AND RESOLUTION</b>	<b>5</b>			
1	IP 71152B	Identification and Resolution of Problems		09/14/2009	09/18/2009	Baseline Inspections
1	IP 71152B	Identification and Resolution of Problems		09/28/2009	10/02/2009	Baseline Inspections
	<b>OL EXAM</b>	<b>- INITIAL EXAM PREP</b>	<b>3</b>			
1	V23321	HARRIS/NOVEMBER 2009 EXAM AT POWER FACILITIES		11/02/2009	11/06/2009	Not Applicable
	<b>OL EXAM</b>	<b>- INITIAL EXAM - WEEK 1</b>	<b>2</b>			
1	V23321	HARRIS/NOVEMBER 2009 EXAM AT POWER FACILITIES		11/30/2009	12/04/2009	Not Applicable
	<b>OL EXAM</b>	<b>- INITIAL EXAM - WEEK 2</b>	<b>2</b>			
1	V23321	HARRIS/NOVEMBER 2009 EXAM AT POWER FACILITIES		12/14/2009	12/18/2009	Not Applicable