



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

September 1, 2010

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 11, 2010, the NRC staff completed its performance review of the Shearon Harris Nuclear Power Plant. Our technical staff reviewed performance indicators (PIs) for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. 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 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. In addition to ROP baseline inspection activities, we also plan on conducting infrequently performed inspections, which include Temporary Instruction (TI) 2515/172, Rector Coolant System Dissimilar Metal Butt Welds; TI 2515/177, Managing Gads Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray System; TI 2515/179, Verification of Licensee Responses to NRC Requirements for Inventories for Materials Tracked in NSTS; and initial operator licensing examinations.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2011. 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).

As you may know, the NRC is currently evaluating the scope and frequency of all the baseline inspection procedures. If the results of the evaluation, or any other circumstances, cause us to change the inspection plan, we will contact you to discuss the change as soon as possible. Please contact me at 404-997-4603 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 (09/01/2010 – 12/31/2011)

cc w/encl: (See page 3)

cc w/encl:

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Harris
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			EB3ISI - INSERVICE INSPECTION		1
1	10/11/2010	10/15/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			EB3TI172 - EB3 RX COOLANT DM BUTT WELDS		1
1	10/11/2010	10/15/2010	IP 2515/172	Reactor Coolant System Dissimilar Metal Butt Welds	
			EB3SGISI - SG INSERVICE INSPECTION		1
1	10/18/2010	10/22/2010	IP 7111108P	Inservice Inspection Activities - PWR	
			PSB1-RP - RP OCCUPATIONAL BASELINE		3
1	10/25/2010	10/29/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	10/25/2010	10/29/2010	IP 71124.02	Occupational ALARA Planning and Controls	
1	10/25/2010	10/29/2010	IP 71151	Performance Indicator Verification	
			PSB1-TI - TI-179 NSTS VERIFICATION		3
1	10/25/2010	10/29/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
			EB1-MODS - MODIFICATION - 10 CFR50.59		4
1	11/29/2010	12/03/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
1	12/13/2010	12/17/2010	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
			PSB1-RP - RP OCCUPATIONAL--TRANSPORTATION		1
1	12/06/2010	12/10/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			OL RQ - REQUAL INSPECTION		2
1	01/24/2011	01/28/2011	IP 7111111B	Licensed Operator Requalification Program	
			CDBI - COMPONENT DESIGN BASES INSPECTION		8
1	03/07/2011	03/11/2011	IP 7111121	Component Design Bases Inspection	
1	03/21/2011	03/25/2011	IP 7111121	Component Design Bases Inspection	
1	04/04/2011	04/08/2011	IP 7111121	Component Design Bases Inspection	
1	04/18/2011	04/22/2011	IP 7111121	Component Design Bases Inspection	
			EB1/DRS - TI-177 GAS ACCUMULATION		3
1	03/28/2011	04/01/2011	IP 2515/177	Managing Gas Accumulation In Emergency Core Cooling, Decay Heat Removal & Containment Spray System	
			PSB1EP - EMERGENCY PREPAREDNESS EXERCISE		3
1	04/25/2011	04/29/2011	IP 7111401	Exercise Evaluation	
1	04/25/2011	04/29/2011	IP 7111404	Emergency Action Level and Emergency Plan Changes	
1	04/25/2011	04/29/2011	IP 71151	Performance Indicator Verification	
			OL EXAM - INITIAL EXAM PREP		3
1	06/20/2011	06/24/2011	V23352	HARRIS/JULY 2011 EXAM AT POWER FACILITIES	
			OL EXAM - INITIAL EXAM - WEEK 1		3
1	07/11/2011	07/15/2011	V23352	HARRIS/JULY 2011 EXAM AT POWER FACILITIES	

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

Enclosure

Harris
Inspection / Activity Plan
09/01/2010 - 12/31/2011

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PI&R - PROBLEM IDENTIFICATION AND RESOLUTION		
1	07/11/2011	07/15/2011	IP 71152B	Identification and Resolution of Problems	6
1	07/25/2011	07/29/2011	IP 71152B	Identification and Resolution of Problems	
			OL EXAM - INITIAL EXAM - WEEK 2		
1	07/18/2011	07/22/2011	V23352	HARRIS/JULY 2011 EXAM AT POWER FACILITIES	3
			PSB1-RP - RP PUBLIC RADIATION PROTECTION INSP		
1	07/18/2011	07/22/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	6
1	07/18/2011	07/22/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	07/18/2011	07/22/2011	IP 71124.04	Occupational Dose Assessment	
1	07/18/2011	07/22/2011	IP 71124.05	Radiation Monitoring Instrumentation	
1	07/18/2011	07/22/2011	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	07/18/2011	07/22/2011	IP 71124.07	Radiological Environmental Monitoring Program	
1	07/18/2011	07/22/2011	IP 71151	Performance Indicator Verification	
			TFPI - TFPI 805		
1	08/29/2011	09/02/2011	IP 7111105T	Fire Protection [Triennial]	7
1	09/12/2011	09/16/2011	IP 7111105T	Fire Protection [Triennial]	

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This report shows only on-site and announced inspection procedures.

Enclosure