



UNITED STATES
NUCLEAR REGULATORY COMMISSION

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

March 1, 2007

Carolina Power and Light Company
ATTN: Mr. R. J. Duncan, II
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 05000400/2007001)

Dear Mr. Duncan:

On February 07, 2007, the NRC technical staff completed its performance review of the Shearon Harris Power Plant for the period from January 1 through December 31, 2006. 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 physical protection information. A separate 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, Shearon Harris operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for Shearon Harris Unit 1 for the most recent quarter, as well as the first three quarters of the assessment cycle, was in 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 which include the license renewal inspection and the containment emergency recirculation sump blockage temporary instruction.

The enclosed inspection plan details the inspections, less those related to physical protection, scheduled through September 30, 2008. The inspection plan is provided to minimize the resource impact on your staff and 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 twelve 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

ML070600253/Package
ML070600259/Letter
ML070600262/Enclosure

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

cc w/encl: (See page 3)

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Harris
Inspection / Activity Plan
03/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
	PSB1-EP - EP EXERCISE		3			
1	IP 7111401	Exercise Evaluation		04/09/2007	04/13/2007	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		04/09/2007	04/13/2007	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		04/09/2007	04/13/2007	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		04/09/2007	04/13/2007	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		04/09/2007	04/13/2007	Baseline Inspections
	OL RQ - REQUAL INSPECTION		2			
1	IP 7111111B	Licensed Operator Requalification Program		05/21/2007	05/25/2007	Baseline Inspections
	PSB1-RP - RP PUBLIC PRE-INSP. VISIT		1			
1	IP 7112101	Access Control to Radiologically Significant Areas		06/11/2007	06/13/2007	Baseline Inspections
	LIC RENE - LICENSE RENEWAL INSPECTION		5			
1	IP 71002	License Renewal Inspection		07/09/2007	07/27/2007	License Renewal Insp
	OL PREP - INITIAL EXAM PREP		5			
1	V23259	HARRIS/JULY 2007 EXAM AT POWER FACILIITES		07/09/2007	07/13/2007	Not Applicable
	PSB1-RP - RP PUBLIC BASELINE INSP		4			
1	IP 7112101	Access Control to Radiologically Significant Areas		07/09/2007	07/13/2007	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		07/09/2007	07/13/2007	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		07/09/2007	07/13/2007	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		07/09/2007	07/13/2007	Baseline Inspections
1	IP 71151	Performance Indicator Verification		07/09/2007	07/13/2007	Baseline Inspections
	PI&R WK1 - PI&R INSPECTION - WK 1		4			
1	IP 71152B	Identification and Resolution of Problems		07/30/2007	08/03/2007	Baseline Inspections
	OL EXAM - INITIAL EXAM		5			
1	V23259	HARRIS/JULY 2007 EXAM AT POWER FACILIITES		08/06/2007	08/17/2007	Not Applicable
	PI&R WK2 - PI&R INSPECTION - WK 2		4			
1	IP 71152B	Identification and Resolution of Problems		08/13/2007	08/17/2007	Baseline Inspections
	EB3-HS - HEAT SINK		1			
1	IP 7111107B	Heat Sink Performance		09/10/2007	09/14/2007	Baseline Inspections
	EB1-SUMP - PWR CONTAINMENT SUMP BLOCKAGE TI (U-1)		1			
1	IP 2515/166	Pressurized Water Reactor Containment Sump Blockage [NRC GENERIC LETTER 2004-02		10/07/2007	10/12/2007	Safety Issues
	EB3-ISI - U1 INSERVICE INSPECTION		2			
1	IP 7111108P	Inservice Inspection Activities - PWR		10/08/2007	10/12/2007	Baseline Inspections
	EB1-MODS - MODIFICATIONS-10CFR50.59		4			
1	IP 7111102	Evaluation of Changes, Tests, or Experiments		02/25/2008	02/29/2008	Baseline Inspections
1	IP 7111117B	Permanent Plant Modifications		02/25/2008	02/29/2008	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
03/01/2007 - 09/30/2008

Unit Number	Inspection Activity	Title	No. of Staff on Site	Planned Dates Start	Planned Dates End	Inspection Type
EB1-CDBI - COMPONENT DESIGN BASIS INSPECTION			6			
1	IP 7111121	Component Design Bases Inspection		03/31/2008	04/04/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		04/14/2008	04/18/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		04/28/2008	05/02/2008	Baseline Inspections
1	IP 7111121	Component Design Bases Inspection		05/12/2008	05/16/2008	Baseline Inspections
PSB1-EP - EP INSP			1			
1	IP 7111402	Alert and Notification System Testing		04/07/2008	04/11/2008	Baseline Inspections
1	IP 7111403	Emergency Response Organization Augmentation Testing		04/07/2008	04/11/2008	Baseline Inspections
1	IP 7111404	Emergency Action Level and Emergency Plan Changes		04/07/2008	04/11/2008	Baseline Inspections
1	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies		04/07/2008	04/11/2008	Baseline Inspections
1	IP 71151-EP01	Drill/Exercise Performance		04/07/2008	04/11/2008	Baseline Inspections
1	IP 71151-EP02	ERO Drill Participation		04/07/2008	04/11/2008	Baseline Inspections
1	IP 71151-EP03	Alert & Notification System		04/07/2008	04/11/2008	Baseline Inspections
PSB1-RP - RADIATION PROTECTION PUBLIC BASELINE			4			
1	IP 7112101	Access Control to Radiologically Significant Areas		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7112103	Radiation Monitoring Instrumentation and Protective Equipment		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7112201	Radioactive Gaseous and Liquid Effluent Treatment and Monitoring Systems		08/25/2008	08/29/2008	Baseline Inspections
1	IP 7112203	Radiological Environmental Monitoring Program (REMP) And Radioactive Material Control P		08/25/2008	08/29/2008	Baseline Inspections
1	IP 71151-OR01	Occupational Exposure Control Effectiveness		08/25/2008	08/29/2008	Baseline Inspections
1	IP 71151-PR01	RETS/ODCM Radiological Effluent		08/25/2008	08/29/2008	Baseline Inspections
EB2-TFP - TRIENNIAL FIRE PROTECTION			5			
1	IP 7111105T	Fire Protection [Triennial]		09/02/2008	09/04/2008	Baseline Inspections
1	IP 7111105T	Fire Protection [Triennial]		09/22/2008	09/26/2008	Baseline Inspections