



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION II  
SAM NUNN ATLANTA FEDERAL CENTER  
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August 27, 2003

Carolina Power & 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: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN - SHEARON  
HARRIS NUCLEAR POWER PLANT

Dear Mr. Scarola:

On August 12, 2003, the NRC staff completed its mid-cycle plant performance assessment of the Shearon Harris Nuclear Power Plant. The mid-cycle review for Shearon Harris involved the participation of all technical divisions in evaluating performance indicators (PIs) for the most recent quarter and inspection results for the first half of the current assessment cycle, January 1 - December 31, 2003. 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 so that you will have an opportunity to prepare for these inspections and to inform us of any planned inspections that may conflict with your plant activities.

Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix based on a safety significant PI during the second quarter of the assessment cycle. The Unplanned Scrams per 7000 Critical Hours PI crossed the White threshold due to three reactor trips that occurred during the second quarter. A Supplemental Inspection using IP 95001 is currently scheduled for the week of September 15, 2003.

As stated in our Annual Assessment Letter, dated March 4, 2003, nine unresolved items identified during the December 2002 triennial fire protection inspection continue to be reviewed as potentially greater than very low safety significance (Green). A self-revealing finding identified during a Special Inspection conducted in May 2003, concerning inadequate corrective action involving failure to preclude repetition of component cooling water system relief valve lifting events and failure to maintain correct relief valve nozzle ring settings, is also under review. Additionally, one unresolved item involving the adequacy of Hemyc/MT cable wrap fire barrier qualification tests and installed configurations continues to be reviewed.

The enclosed inspection plan details the inspections scheduled through September 30, 2004. Included in the inspection schedule is an NRC Plant Design Pilot Inspection. This inspection will review safety system design and performance capability, permanent plant modifications, and evaluations of changes, tests and experiments. 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 six months of the inspection plan are tentative and may be revised at the end-of-cycle review meeting.

In accordance with 10 CFR 2.790 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 Paul Fredrickson at 404-562-4530 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

*/RA/*

Victor M. McCree, Acting Director  
Division of Reactor Projects

Docket No. 50-400  
Licensee 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**  
**09/01/2003 - 09/30/2004**

| Unit<br>Number | Inspection Activity | Title   | No. of Staff<br>on Site | Planned Dates |            | Inspection<br>Type   |
|----------------|---------------------|---|-------------------------|---------------|------------|----------------------|
|                |                     |   |                         | Start         | End        |                      |
|                | <b>DRPB4 SI</b>     | <b>- SUPPLEMENTAL INSPECTION FOR WHITE PI</b>                                       | <b>2</b>                |               |            |                      |
| 1              | IP 95001            | Supplemental Inspection For One Or Two White Inputs In A Strategic Performance Area |                         | 09/15/2003    | 09/19/2003 | Supplemental Progra  |
|                | <b>PS-RP</b>        | <b>- RADIATION PROTECTION</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7112202          | Radioactive Material Processing and Transportation                                  |                         | 11/17/2003    | 11/21/2003 | Baseline Inspections |
|                | <b>OL PREP</b>      | <b>- INITIAL EXAM PREP</b>  | <b>3</b>                |               |            |                      |
| 1              | V23211              | HARRIS/EXAMS AT POWER FACILITIES  |                         | 02/09/2004    | 02/13/2004 | Not Applicable       |
|                | <b>OL EXAM</b>      | <b>- INITIAL EXAM</b>   | <b>2</b>                |               |            |                      |
| 1              | V23211              | HARRIS/EXAMS AT POWER FACILITIES  |                         | 02/23/2004    | 02/27/2004 | Not Applicable       |
|                | <b>EB1</b>          | <b>- PLANT DESIGN - PILOT</b>   | <b>5</b>                |               |            |                      |
| 1              | IP 71111.DS         | Safety System Design and Performance Capability                                     |                         | 03/22/2004    | 03/26/2004 | Baseline Inspections |
| 1              | IP 71111.DS         | Safety System Design and Performance Capability                                     |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
|                | <b>OL EP</b>        | <b>- EP INSPECTION</b>  | <b>1</b>                |               |            |                      |
| 1              | IP 7111402          | Alert and Notification System Testing   |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
| 1              | IP 7111403          | Emergency Response Organization Augmentation Testing                                |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
| 1              | IP 7111404          | Emergency Action Level and Emergency Plan Changes                                   |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
| 1              | IP 7111405          | Correction of Emergency Preparedness Weaknesses and Deficiencies                    |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
| 1              | IP 71151            | Performance Indicator Verification  |                         | 04/05/2004    | 04/09/2004 | Baseline Inspections |
|                | <b>EB2-MR</b>       | <b>- MAINTENANCE RULE</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7111112B         | Maintenance Effectiveness   |                         | 06/28/2004    | 07/02/2004 | Baseline Inspections |
|                | <b>EB2-ISI</b>      | <b>- INSERVICE INSPECTION</b>   | <b>1</b>                |               |            |                      |
| 1              | IP 7111108P         | Inservice Inspection Activities - PWR   |                         | 09/27/2004    | 10/01/2004 | Baseline Inspections |