



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

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

January 15, 2008

Carolina Power & Light Company  
ATTN: Mr. Robert 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: NOTIFICATION OF SHEARON HARRIS NUCLEAR POWER PLANT -  
COMPONENT DESIGN BASES INSPECTION - NRC INSPECTION REPORT  
05000400/2008006

Dear Mr. Duncan:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a component design bases inspection at your Shearon Harris Nuclear Power Plant during the weeks of April 14 – 18, 2008, April 28 – May 2, 2008, and May 12 – 16, 2008. The inspection team will be led by W. Russell Lewis, a Senior Reactor Inspector from the NRC's Region II Office. This inspection will be conducted in accordance with the baseline inspection procedure, Procedure 71111.21, Component Design Bases Inspection, issued September 20, 2007.

The inspection will evaluate the capability of risk significant / low margin components to function as designed and to support proper system operation. The inspection will also include a review of selected operator actions, operating experience, and modifications.

During a telephone conversation on January 9, 2008 and subsequent e-mail exchange on January 10, 2008, Mr. Lewis confirmed with Mr. Wallace of your staff, arrangements for an information gathering site visit and the three-week onsite inspection. The schedule is as follows:

- Information gathering visit: Week of March 31 – April 4, 2008.
- Onsite weeks: April 14 – 18, 2008, April 28 – May 2, 2008, and May 12 – 16, 2008.

The purpose of the information gathering visit is to meet with members of your staff to identify risk-significant components and operator actions. Information and documentation needed to support the inspection will also be identified. Mr. Walt Rogers, a Region II Senior Reactor Analyst, and Mr. Steve Rose, a Region II Senior Reactor Inspector and Team Leader, may accompany Mr. Lewis during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection.

The enclosure lists documents that will be needed prior to the information gathering visit. Please contact Mr. Lewis with any questions prior to preparing materials listed in the enclosure, and provide the referenced information to the Region II office by March 13, 2008. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for the inspection preparation.

During the information gathering visit, the team leader will also discuss the following inspection support administrative details: office space; supplemental documents requested to be made available to the team in the Region II office prior to the inspection preparation week of April 7, 2008; arrangements for site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be 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).

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Lewis at (404) 562-4541 or me at (404) 562-4519.

Sincerely,

/RA/

Binoy B. Desai, Chief  
Engineering Branch 1  
Division of Reactor Safety

Docket Nos.: 50-400  
License Nos.: NPF-63

Enclosure: Information Request For Shearon Harris Nuclear Power Plant Component Design  
Bases Inspection

cc w/encl:  
Paul Fulford  
Manager  
Performance Evaluation and Regulatory Affairs PEB5  
Carolina Power & Light Company  
Electronic Mail Distribution

Chris L. Burton  
Director Site Operations  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
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J. Wayne Guganious  
Training Manager  
Harris  
Progress Energy Carolinas, Inc.  
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(cc w/encl cont'd – See page 3)

(cc w/encl cont'd)  
Thomas J. Natale  
Manager  
Support Services  
Shearon Harris Nuclear Power Plant  
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David H. Corlett  
Supervisor  
Licensing/Regulatory Programs  
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David T. Conley  
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Tommy Emerson  
Chair  
Board of County Commissioners of Chatham County  
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Distribution w/encl:  
M. Vaaler, NRR  
RIDSNRRDIRS  
PUBLIC

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Engineering Branch 1  
Division of Reactor Safety

Docket Nos.: 50-400  
License Nos.: NPF-63

Enclosure: Information Request For Shearon Harris Nuclear Power Plant Component Design Bases Inspection

cc w/encl:  
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Manager  
Performance Evaluation and Regulatory Affairs PEB5  
Carolina Power & Light Company  
Electronic Mail Distribution

Chris L. Burton  
Director Site Operations  
Carolina Power & Light Company  
Shearon Harris Nuclear Power Plant  
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(cc w/encl cont'd – See page 3)

PUBLICLY AVAILABLE     NON-PUBLICLY AVAILABLE     SENSITIVE     NON-SENSITIVE

ADAMS:  YES    ACCESSION NUMBER: \_\_\_\_\_

OFFICE	RII:DRS	RII:DRS	RII:DRP	RII:DRS			
SIGNATURE	RA	RA	RA	RA			
NAME	S.Rose	R.Lewis	R.Musser	W.Rogers			
DATE	01/ 11/2008	01/11 /2008	01/14/2008	01/ 14/2008			
E-MAIL COPY	YES    NO	YES    NO	YES    NO	YES    NO			

OFFICIAL RECORD COPY    DOCUMENT NAME:    S:\DRS\Eng Branch 1\Notification Letters\Harris 2008006 NL (wrl).doc

## INFORMATION REQUEST FOR SHEARON HARRIS NUCLEAR POWER PLANT COMPONENT DESIGN BASES INSPECTION

Please provide the information electronically in “.pdf” files, Excel, or other searchable format on CDROM. The CDROM should be indexed and hyperlinked to facilitate ease of use. Information in “lists” should contain enough information to be easily understood to someone who has knowledge of pressurized water reactor technology.

1. From your most recent probabilistic safety analysis (PSA) **excluding** external events and fires, please provide:
  - a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
  - b. A list of the top 500 cutsets.
2. From your most recent probabilistic safety analysis (PSA) **including** external events and fires, please provide:
  - a. Two risk rankings of components from your site-specific probabilistic safety analysis (PSA) – one sorted by Risk Achievement Worth (RAW), and the other sorted by Birnbaum Importance.
  - b. A list of the top 500 cutsets.
3. Risk ranking of operator actions from your site specific PSA sorted by RAW. Provide copies of your human reliability worksheets for these items.
4. Any pre-existing evaluation or list of components and calculations with low design margins (i.e., pumps closest to the design limit for flow or pressure, diesel generator close to design required output, heat exchangers close to rated design heat removal, MOV risk-margin rankings, etc.).
5. A list of station applicability evaluations/reviews performed and documented in the station corrective action program in the past two years for industry events, critical equipment failures, and safety related equipment vulnerabilities (as communicated by NRC generic communications, industry communications, 10 CFR Part 21 notifications, etc.).
6. A list of operability evaluations completed within the last two years, sorted by associated component or system.
7. A list of **common-cause failures** of components that have occurred at Shearon Harris Nuclear Power Plant and have been identified within the last five years.
8. A list of equipment currently on the site’s Key Equipment Priorities List, including a description of the reason(s) why each **component** (i.e. not a programmatic or system level concern) is on that list and summaries (if available) of your plans to address those reasons.
9. A list of equipment currently in RIS 05-020 (formerly GL 91-18) status, or in MR (a)(1) status.
10. Contact information for a person to discuss PRA information prior to the information gathering trip: name, title, phone number, and e-mail address.

Enclosure