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

May 27, 2010

Mr. Eric McCartney
Vice President
Carolina Power and Light Company
H.B. Robinson Steam Electric Plant
3581 West Entrance Road
Hartsville, SC 29550

SUBJECT: NOTIFICATION OF H.B. ROBINSON STEAM ELECTRIC PLANT - COMPONENT DESIGN BASES INSPECTION - NRC INSPECTION REPORT 05000261/2010011

Dear Mr. McCartney:

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 H.B. Robinson Steam Electric Plant Unit 2 during the period of August 30 – October 1, 2010. The inspection team will be led by Mr. Shakur Walker, 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 August 19, 2008.

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 May 26, 2010, Mr. Walker confirmed, with Mr. Garrett Sanders of your staff, arrangements for an information gathering site visit and the three-week onsite inspection. The schedule is as follows:

- Information gathering visit: August 9 – 12, 2010
- Week 1 of onsite inspection: August 30 – September 3, 2010
- Week 2 of onsite inspection: September 13 – 17, 2010
- Week 3 of onsite inspection: September 27 – October 1, 2010

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 and gathered or requested. Mr. John Hanna and Mr. Walt Rogers, both Region II Senior Reactor Analysts, may accompany Mr. Walker 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. Walker with any questions prior to preparing materials listed in the enclosure and provide the referenced information to the Region II office by July 15, 2010, unless otherwise noted. 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; site, plant and information system access; required resources; and information exchange protocol.

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).

This letter does not contain new or amended information collection requirements subject to the Paperwork Reduction Act of 1995 (44 U.S.C. 3501 et seq.). Existing information collection requirements were approved by the Office of Management and Budget, control number 3150-0011.

The NRC may not conduct or sponsor, and a person is not required to respond to, a request for information or an information collection requirement unless the requesting document displays a currently valid Office of Management and Budget control number.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Walker at (404) 997-4639 or me at (404) 997-4519.

Sincerely,

***/RA/***

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

Docket Nos.: 50-261
License Nos.: DPR-23

Enclosure: Information Request for H.B. Robinson Steam Electric Plant Component Design Bases Inspection

cc w/encl: (See page 3)

cc w/encl:
Eric McCartney
Vice President
H. B. Robinson Steam Electric Plant Unit 2
Carolina Power & Light Company
Electronic Mail Distribution

R. J. Duncan, II
Vice President
Nuclear Operations
Carolina Power & Light Company
Electronic Mail Distribution

Brian C. McCabe
Manager, Nuclear Regulatory Affairs
Progress Energy Carolinas, Inc.
Electronic Mail Distribution

Christos Kamilaris
Director
Fleet Support Services
Carolina Power & Light Company
Electronic Mail Distribution

Curt A. Castell
Supervisor
Licensing/Regulatory Programs
Carolina Power & Light Company
Electronic Mail Distribution

B. C. White
Manager
Support Services - Nuclear
Carolina Power & Light Company
Electronic Mail Distribution

S. D. West
Superintendent Security
H. B. Robinson Steam Electric Plant
Progress Energy
Electronic Mail Distribution

Joseph W. Donahue
Vice President
Nuclear Oversight
Carolina Power and Light Company
Electronic Mail Distribution

David T. Conley
Associate General Counsel
Legal Dept.
Progress Energy Service Company, LLC
Electronic Mail Distribution

John H. O'Neill, Jr.
Shaw, Pittman, Potts & Trowbridge
2300 N. Street, NW
Washington, DC 20037-1128

Susan E. Jenkins
Director, Division of Waste Management
Bureau of Land and Waste Management
S.C. Department of Health and
Environmental Control
Electronic Mail Distribution

Scott Saunders
Plant General Manager
Carolina Power & Light Company
Electronic Mail Distribution

Robert P. Gruber
Executive Director
Public Staff - NCUC
4326 Mail Service Center
Raleigh, NC 27699-4326

W. Lee Cox, III
Section Chief
Radiation Protection Section
N.C. Department of Environmental
Commerce & Natural Resources
Electronic Mail Distribution

Public Service Commission
State of South Carolina
P.O. Box 11649
Columbia, SC 29211

R. Mike Gandy
Division of Radioactive Waste Mgmt.
S.C. Department of Health and
Environmental Control
Electronic Mail Distribution

(cc w/encl cont'd – See page 4)

(cc cont'd)
Chairman
North Carolina Utilities Commission
Electronic Mail Distribution

Senior Resident Inspector
U.S. Nuclear Regulatory Commission
H. B. Robinson Steam Electric Plant
2112 Old Camden Rd
Hartsville, SC 29550

Letter to Eric McCartney from Binoy Desai dated May 27, 2010.

SUBJECT: NOTIFICATION OF H.B. ROBINSON STEAM ELECTRIC PLANT - COMPONENT DESIGN BASES INSPECTION - NRC INSPECTION REPORT 05000261/2010011

Distribution w/encl:
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ADAMS: X Yes ACCESSION NUMBER:_____ X SUNSI REVIEW COMPLETE

| OFFICE | RII:DRS | RII:DRS | | | | | |
|---|---|---|---|---|---|---|---|
| SIGNATURE | RA | RA | | | | | |
| NAME | S. Walker | B. Desai | | | | | |
| DATE | 5/27/2010 | 5/27/2010 | | | | | |
| E-MAIL COPY? | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO | YES NO |

OFFICIAL RECORD COPY DOCUMENT NAME: S:\DRS\ENG BRANCH 1\BRANCH INSPECTION FILES\CDBI INSPECTIONS\CDBI INSPECTIONS\NOTIFICATION LETTERS\ROBINSON CDBI NOTIFICATION 2010 (SAW).DOC

**INFORMATION REQUEST FOR H.B. ROBINSON STEAM ELECTRIC PLANT COMPONENT DESIGN BASES INSPECTION**

Please provide the information electronically in ".pdf" files, Excel, or other searchable format on CD/DVD-ROM. The CD/DVD-ROM should be indexed and possibly 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 H.B. Robinson Steam Electric Plant and have been identified within the last five years.

8. A list of equipment currently planned for upgrade/improvement by the site (e.g. "ONE" 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.

11. Provide two sets of PI&D drawings (11x17) for safety-related systems (for onsite week of August 9 – 11, 2010)

12. Provide six copies of FSAR (CD/DVD-ROM only) (for onsite week of August 9 – 11, 2010)

13. Provide six copies of Technical Specifications and Bases (CD/DVD-ROM only) (for onsite week of August 9 – 11, 2010)