UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
SAM NUNN ATLANTA FEDERAL CENTER
61 FORSYTH STREET SW SUITE 23T85
ATLANTA, GEORGIA 30303-8931

December 12, 2002

Carolina Power & Light Company
ATTN: Mr. J. W. Moyer
Vice President
H. B. Robinson Steam Electric Plant Unit 2
3581 West Entrance Road
Hartsville, SC 29550

SUBJECT: NOTIFICATION OF H. B. ROBINSON NUCLEAR PLANT - SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION - NRC INSPECTION REPORT 50-261/2003-02

Dear Mr. Moyer:

The purpose of this letter is to notify you that the U.S. Nuclear Regulatory Commission (NRC) Region II staff will conduct a safety system design and performance capability inspection at your H. B. Robinson Nuclear Plant during the weeks of February 24-28, 2003, and March 10 -14, 2003. A team of five inspectors will perform this inspection. The inspection team will be led by Mr. Robert Schin, a Senior Reactor Inspector from the NRC Region II Office. This inspection will be conducted in accordance with baseline inspection program Attachment 71111.21, Safety System Design and Performance Capability.

The inspection will evaluate the capability of installed plant equipment to detect and respond to a steam generator tube rupture event. Procedures which direct the mitigating actions for this event will also be evaluated.

During a telephone conversation on December 10, 2002, Mr. Schin of my staff, and Mr. Curt Castell of your staff, confirmed arrangements for an information gathering site visit and the two-week onsite inspection. The schedule is as follows:

- Information gathering visit: Week of January 25, 2003
- Onsite inspection: February 24-28, 2003 and March 10-14, 2003.

The purpose of the information gathering visit is to obtain information and documentation outlined in the Enclosure needed to support the inspection. Mr. Walter Rogers, a Region II Senior Reactor Analyst, may accompany Mr. Schin during the information gathering visit to review probabilistic risk assessment data and identify risk significant components which will be examined during the inspection. Please contact Mr. Schin prior to preparing copies of the materials listed in the Enclosure. The inspectors will try to minimize your administrative burden by specifically identifying only those documents required for inspection preparation.

During the information gathering visit, Mr. Schin will also discuss the following inspection support administrative details: office space; specific documents requested to be made available to the team in their office space; arrangements for site access; and the availability of knowledgeable plant engineering and licensing personnel to serve as points of contact during the inspection.

Thank you for your cooperation in this matter. If you have any questions regarding the information requested or the inspection, please contact Mr. Schin (404) 562-4629 or me at (404) 562-4605.

In accordance with 10 CFR 2.790 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 Publically 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).

Sincerely,

/RA: Walter Rogers for:/

Charles R. Ogle, Chief
Engineering Branch 1
Division of Reactor Safety

Docket No.: 50-261
License No.: DPR-23

Enclosure: Information Request for the Safety System Design and Performance Capability Inspection

cc w/encl:
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OFFICE	RII:DRS	RII:DRS	RII:DRP				
SIGNATURE	SCHIN	SCHIN FOR *	FREDRICKSON‘‘‘‘				
NAME	RSCHIN	JMOORMAN	PFREDRICKSON				
DATE	12/11/2002	12/12/2002	12/12/2002	12/ /2002	12/ /2002	12/ /2002	12/ /2002
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO
PUBLIC DOCUMENT	YES NO						

OFFICIAL RECORD COPY DOCUMENT NAME: C:\ORPCheckout\FileNET\ML023470094.wpd

INFORMATION REQUEST FOR THE SAFETY SYSTEM DESIGN AND PERFORMANCE CAPABILITY INSPECTION STEAM GENERATOR TUBE RUPTURE EVENT

Note: Electronic media is preferred if readily available. (The preferred file format is searchable ".pdf" files on CDROM.)

1. Design basis documents for the engineered safety features used to mitigate the steam generator tube rupture (SGTR) event. Design basis documents for pressurizer relief valves, secondary system relief valves, atmospheric dump valves, and turbine bypass valves. Include performance history of these valves for the past 10 years.

2. All procedures used to implement the detection and mitigation strategy for the SGTR event. Include emergency, abnormal, annunciator response, and normal operating procedures as appropriate.

3. Procedures used for the operational testing of check valves in portions of the emergency core cooling systems used during mitigation of the SGTR event.

4. Surveillance procedures used to ensure the operability of equipment required by your Technical Specifications that are used during the mitigation of the SGTR event

5. Summary results of the steam generator (SG) in-service inspection program.

6. List of temporary modifications and operator work-arounds involving any components required for detection or mitigation of a SGTR event for the past 3 years

7. System description and operator training modules for a SGTR event.

8. List of operating experience program evaluations of industry, vendor, or NRC generic issues related to a SGTR event.

9. Procedures used to sample the reactor coolant system during a SG tube leak or SGTR event.

10. Calibration and functional testing procedures for the main steam line radiation monitoring instrumentation used to detect and mitigate a SGTR event.

11. Calculations used to support the set points in Emergency Operating Procedures for a SGTR event.

12. Performance history of valves or support equipment used to isolate SGs in the event of a tube rupture.

13. Calibration and functional test procedures of instruments used to monitor reactor coolant system (RCS) pressure, pressurizer level and pressure, SG level and pressure, RDS hot and cold leg temperature, RCS subcooling monitor, feedwater flow, steam flow, core exit temperature, high pressure injection (HPI) flow, low pressure injection flow, refueling

water storage tank level, pressurized heater status, safety relief valve position indicator, auxiliary feedwater flow (AFW) flow, condensate storage tank (CST) level, makeup flow, and letdown flow.

14. P&IDs for RCS, HPI, SI, AFW, chemical and volume control system, main steam, and electrical distribution system. (Paper copies are preferred for these)

15. Electrical schematic showing start circuit for the AFW pumps. (Paper copies are preferred for these)

16. Test procedures for the primary and secondary system safety relief valves including any position indications and code safety valves.

17. Loop uncertainly calculations for SG level, pressurizer pressure and level, and RCS pressure.

18. Test procedures for any defeat switches associated with AFW starting logic.

19. Instrument loop diagrams for items identified in Number 13 above. (Paper copies are preferred for these)

20. Probability Risk Assessment (PRA) Event tree for a SGTR event. A list of PRA identified system dependencies and success criteria for systems used to mitigate a steam generator tube rupture.

21. System health reports and all performance monitoring information for systems used to detect and mitigate a SGTR event.

22. A list of Action Reports and non-routine work requests initiated since 1998 affecting the systems used to detect and mitigate a SGTR event.

23. Maintenance Rule performance criteria for systems used to detect and mitigate a SGTR event. A list of maintenance rule failures of equipment used to detect or mitigate a SGTR event.

24. Key electrical single line diagrams of the alternating current and direct current power systems that provide power for the pumps, valves, and instrumentation and control circuits associated with the systems that accomplish the SGTR mitigation strategy. (Paper copies are preferred for these)

25. Provide a list of equipment used to mitigate a SGTR that changes state or is manually manipulated during implementation of the SGTR mitigation strategy. Provide equipment failure rates over the past 10 years for these components.