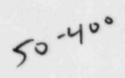


Carolina Power & Light Company 100 + F H 99 10 4 19



NRC-323

P. O. Box 101, New Hill, No 27562 February 12, 1985

Dr. J. Nelson Grace United States Nuclear Regulatory Commission **Region II** 101 Marietta Street, Northwest (Suite 2900) Atlanta, Georgia 30323

CAROLINA POWER & LIGHT COMPANY SHEARON HARRIS NUCLEAR POWER PLANT 1986 - 900,000 KW - UNIT 1 **IN-CORE FLUX MAPPING SYSTEM -**SYSTEM INTERACTIONS, ITEM 179

Dear Dr. Grace:

Attached is an interim report on the subject item which was deemed reportable per the provisions of IOCFR 50.55(e) and IOCFR, Part 21 on January 16, 1985. CP&L is pursuing this matter, and it is currently projected that corrective action and submission of the final report will be accomplished by December 31, 1985.

Thank you for your consideration in this matter.

Yours very truly,

Rawateon for

R. M. Parsons Project General Manager Completion Assurance Shearon Harris Nuclear Power Plant

RMP/sae

Messrs. G. Maxwell/R. Prevatte (NRC-SHNPP) CCI Mr. R. C. De Young (NRC)

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## CAROLINA POWER & LIGHT COMPANY SHEARON HARRIS NUCLEAR POWER PLANT

UNIT NO. 1

INTERIM REPORT

IN-CORE FLUX MAPPING SYSTEM -SYSTEM INTERACTIONS

**ITEM 179** 

FEBRUARY 8, 1985

REPORTABLE UNDER 10CFR50.55(e) AND 10CFR21

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SUBJECT: Shearon Harris Nuclear Power Plant Unit No. 1 10CFR50.55(e) and 10CFR, Part 21 reportable deficiency in the interaction scenario postulating portions of the nonsafety flux mapping system falling on the in-core instrumentation tubing/seal table during a seismic event.

ITEM: Seismic interaction scenario of the In-Core Flux Mapping System.

SUPPLIED BY: Westinghouse, Nuclear Energy Systems, Pittsburgh, Pennsylvania

NATURE OF DEFICIENCY:

An interaction scenario which postulates portions of the SHNPP flux mapping system, which is a nonnuclear safety system, falling on the in-core instrumentation tubing/seal table during a seismic event damaging the in-core instrumentation tubing/seal table and causing a small break LOCA. This potential interaction is possible because the SHNPP flux mapping system is installed directly above the in-core instrumentation tubing/seal table.

## DATE PROBLEM

OCCURRED:

During preparation of the installation procedure for the in-core flux mapping system, the question was raised as to if this system should be supported per Regulatory Guide 1.29. Inquiry was transmitted to Westinghouse on May 14, 1984 to have them determine the validity of the concern. Westinghouse responded on May 30, 1984 by confirming that a potential interaction does exist.

#### DATE PROBLEM

REPORTED:

June 22, 1984, CP&L (N. J. Chiangi) notified the NRC (Mr. D. Verrelli) that this item was potentially reportable under 10CFR50.55(e) and 10CFR, Part 21.

January 16, 1985, CP&L (F. E. Strehle) notified the NRC (Mr. A. Hardin) that this item was reportable under 10CFR50.55(e) and 10CFR, Part 21.

SCOPE OF PROBLEM:

The deficiency involves the SHNPP in-core flux mapping and instrumentation tubing/seal table systems.

# SAFETY

IMPLICATION:

Small break LOCA after a seismic event would degrade the ability of the plant to be safely shut down.

## REASON

DEFICIENCY

IS REPORTABLE: This item is reportable because it could impede the safe shutdown of the plant.

#### CORRECTIVE ACTION:

Perform a structural integrity analysis for the portion of the in-core flux mapping system that is located above in-core instrumentation tubing/seal table and make the structural modifications required to preclude the potential interaction.

FINAL REPORT:

The design for seismically attaching the moveable portion of the in-core flux mapping system has not been completed. The final report is expected to be issued by December 31, 1985, after the modifications have been implemented.