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 RECIP. NAME RECIPIENT AFFILIATION
 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards responses to draft SER Open Items 290 & 291 re combined seismic & dynamic loads to be used in qualification program & qualification of safety-related electrical equipment, respectively.

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Carolina Power & Light Company

JUN 22 1983

SERIAL: LAP-83-226

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
United States Nuclear Regulatory Commission
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NOS. 1 AND 2
DOCKET NOS. 50-400 AND 50-401
DRAFT SAFETY EVALUATION REPORT RESPONSES
EQUIPMENT QUALIFICATION BRANCH

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) hereby transmits one original and forty copies of responses to Shearon Harris Nuclear Power Plant Draft Safety Evaluation Report Open Items. These responses are for the Equipment Qualification Branch, and are CP&L Open Item Nos. 290 and 291.

We will be providing responses to other Open Items in the Draft Safety Evaluation Report shortly.

Yours very truly,

M. A. McDuffie
Senior Vice President
Engineering & Construction

JDK/ccc (7041JDK)

cc: Mr. N. Prasad Kadambi (NRC)	Mr. Wells Eddleman
Mr. A. Mascientonio (NRC)	Dr. Phyllis Lotchin
Mr. G. F. Maxwell (NRC-SHNPP)	Mr. John D. Runkle
Mr. J. P. O'Reilly (NRC-RII)	Dr. Richard D. Wilson
Mr. Travis Payne (KUDZU)	Mr. R. Wright
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Shearon Harris Nuclear Power Plant
Draft SER Open Item No. 290

Based on the criteria defined in SRP 3.10, IEEE 323-1974 and 344-1975 are the standards that the applicant must follow, and a future revision to the FSAR should clearly indicate such a commitment. Also missing from the FSAR Section 3.10 is any indication of the combined seismic and dynamic loads to be used in the qualification program.

Response

The SHNPP commitment to IEEE-323-1974 and IEEE-344-1975 for seismic qualification of seismic Category I electric equipment is indicated in Section 3.10.1.2. This commitment is clarified as follows:

Seismic and dynamic qualification is considered an integral part of environmental qualification. For equipment located in mild environment as defined in 10CFR50.49, consideration of aging aspects of environmental qualification are, as a minimum, assured by SHNPP compliance with the general quality and surveillance requirements applicable to electric equipment in accordance with other regulations such as 10CFR50, Appendix B. For all other electric equipment, the aging and test sequence aspects of seismic qualification are based on the requirements of IEEE-323-1974. Additional details regarding the SHNPP commitment and methodology for environmental qualification, including consideration of the need for equipment preaging prior to seismic test will be provided in Appendix 3.11D (Compliance with NUREG-0588) in a future amendment.

Combined seismic and dynamic loads are utilized where applicable in the qualification program for electric equipment. Additional information and detailed loads used, will be provided in accordance with Mr. G. W. Knighton's letter to Mr. E. E. Utley dated February 2, 1983, regarding Additional Information for Seismic and Dynamic Qualification Review for Shearon Harris Units 1 and 2. This information will also be incorporated into Section 3.10.

Shearon Harris Nuclear Power Plant
Open Item No. 291

When complete information is provided to ensure qualification of safety-related electrical and mechanical equipment, the staff will audit the applicant's electrical equipment qualification files. A supplemental safety evaluation report (SSER) will be prepared after completion of the audit. Included in that SSER will be the staff evaluation of the environmental qualification of mechanical equipment. Documentation to substantiate environmental qualification of mechanical equipment will be reviewed by the staff separately from the electrical equipment audit.

Response

This is a confirmatory item. The qualification program for safety related equipment at the Shearon Harris Nuclear Power Plant is in progress. The NRC will be informed when 85-90% of the safety related equipment has been installed, and the appropriate documentation will be provided in accordance with Mr. G. W. Knighton's letter to Mr. E. E. Utley dated February 2, 1983, regarding Additional Information for Seismic and Dynamic Qualification Review for Shearon Harris Units 1 and 2.

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1. The first part of the report is a general
description of the project and its objectives.
2. The second part is a detailed description of
the methodology used in the study.
3. The third part is a description of the results
of the study.
4. The fourth part is a discussion of the results
and their implications.
5. The fifth part is a conclusion and a list of
references.

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6. The sixth part is a list of references.
7. The seventh part is a list of references.
8. The eighth part is a list of references.
9. The ninth part is a list of references.
10. The tenth part is a list of references.

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