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ACCESSION NBR: 8509230296 DOC. DATE: 85/09/13 NOTARIZED: NO DOCKET #
 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
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 ZIMMERMAN, S. R. Carolina Power & Light Co.
 RECIP. NAME: RECIPIENT AFFILIATION
 DENTON, H. R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Provides addl info re ability to place plant in cold shutdown condition considering limiting single failure, per SER Confirmatory Item 36 re steam generator tube rupture. Depressurization utilizes auxiliary spray line.

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Carolina Power & Light Company

SEP 13 1985

SERIAL: NLS-85-331

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

SHEARON HARRIS NUCLEAR POWER PLANT
UNIT NO. 1 - DOCKET NO. 50-400
COLD SHUTDOWN CAPABILITY

REFERENCE: CP&L letter from M. A. McDuffie (CP&L) to H. R. Denton (NRC),
LAP-83-354 dated August 11, 1983.

Dear Mr. Denton:

Carolina Power & Light Company (CP&L) submits additional information regarding the Shearon Harris Nuclear Power Plant (SHNPP) ability to place the plant in a cold shutdown condition considering a limiting single failure. This information is also pertinent to Safety Evaluation Report Confirmatory Item 36, regarding steam generator tube rupture. This submittal is made at the request of a Reactor Systems Branch reviewer specifically requesting information on suitable plant systems to provide the function of depressurization to achieve a cold shutdown condition. The reference letter also discusses this subject in response to DSER Open Item 49.

For SHNPP, the primary means of Reactor Coolant System (RCS) depressurization (considering a limiting single failure) is by utilizing the pressurizer auxiliary spray line, which is a portion of the Chemical and Volume Control System. The fluid flow path is via the centrifugal charging pumps and the auxiliary spray valve to the pressurizer. The normally closed auxiliary spray valve fails closed on loss of air, but will be readily accessible to operating personnel and can be opened in 4-6 hours by using a pressure regulated portable air supply. The backup means of RCS depressurization is via the pressurizer power-operated relief valves (PORVs). These valves have been demonstrated operable under seismic and post-seismic conditions under the Westinghouse pump and valve operability program. Additionally, a SHNPP specific PORV was tested under the EPRI operability and reliability test program (NUREG-0737, Item II.D.1).

If you have any questions, please contact Mr. Gregg A. Sindors at (919) 836-8168.

Yours very truly,


S. R. Zimmerman
Manager

Nuclear Licensing Section

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E PDR

GAS/ccc (1840GAS)

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