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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina  
 AUTH. NAME      AUTHOR AFFILIATION  
 ZIMMERMAN, S. R.      Carolina Power & Light Co.  
 RECIP. NAME      RECIPIENT AFFILIATION  
 DENTON, H. R.      Office of Nuclear Reactor Regulation, Director.

SUBJECT: Forwards response to SER Confirmatory Item 11 re pressure-temp curve. Present curves do not require rev.

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Carolina Power & Light Company

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

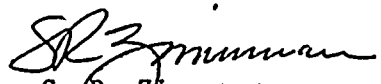
SHEARON HARRIS NUCLEAR POWER PLANT  
UNIT NO. 1 - DOCKET NO. 50-400  
PRESSURE-TEMPERATURE CURVE

Dear Mr. Denton:

Carolina Power & Light Company hereby submits additional information concerning the pressure-temperature curve, per Appendix G, 10 CFR 50, for the Shearon Harris Nuclear Power Plant. This information is in response to Safety Evaluation Report Confirmatory Item 11 from the Materials Engineering Branch.

If you have further questions or desire additional information, please contact our staff.

Yours very truly,

  
S. R. Zimmerman  
Manager

Nuclear Licensing Section

JHE/ccc (200NLU)

Attachment

- |                                 |                            |
|---------------------------------|----------------------------|
| cc: Mr. B. C. Buckley (NRC)     | Mr. Wells Eddleman         |
| 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. G. O. Bright (ASLB)    |
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SHEARON HARRIS NUCLEAR POWER PLANT  
SAFETY EVALUATION REPORT  
CONFIRMATORY ITEM NO. 11

ITEM

The applicant's pressure-temperature curves meet all the requirements of Appendix G, 10 CFR 50, except for the safety margins required for the closure flange region materials. However, the applicant has indicated that he will revise the pressure-temperature limits to conform with the safety margins required by Appendix G, 10 CFR 50, for the closure flange region materials.

RESPONSE

The limiting beltline material for Shearon Harris Nuclear Power Plant (SHNPP) Unit 1 is correctly stated in the Safety Evaluation Report as being plate B-4197-2, with an  $RT_{NDT} = 90^{\circ}F$ . The  $RT_{NDT}$ 's for the closure flange regions of the SHNPP Unit 1 vessel are  $0^{\circ}F$  for the head flange and  $-8^{\circ}F$  for the vessel flange. Thus, application of the new Appendix G rule will not modify the SHNPP Unit 1 pressure-temperature curves. When pressure exceeds 20 percent of the preservice system hydrostatic test pressure (3106 psig) or 621 psig, the temperature of the closure flange regions (i.e., the temperature of the reactor coolant) must exceed  $120^{\circ}F$ . The present curves bound that value. Likewise, for hydrostatic tests and inservice leak testing, the temperature of the closure flange regions must exceed  $90^{\circ}F$ . The present SHNPP Unit 1 curves bound this condition; therefore, the pressure-temperature curves for SHNPP Unit 1 do not require revision. SHNPP Unit 2 was canceled in December 1983; therefore, information relative to that unit is no longer necessary.

