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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina      05000400  
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 RECIP. NAME      RECIPIENT AFFILIATION  
 DENTON, H. R.      Office of Nuclear Reactor Regulation, Director (post 851125)

SUBJECT: Submits addl info re setpoints for PORVs at plant, to close out SER Confirmatory Item 10. Listed low temp overpressure protection PORV setpoints ensure that reactor vessel App G curve will not be exceeded.

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NOTES: Application for permit renewal filed. 05000400

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Carolina Power & Light Company  
APR 23 1986

SERIAL: NLS-86-119

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  
POWER OPERATED RELIEF VALVE SETPOINTS

Dear Mr. Denton:

Carolina Power & Light Company hereby submits additional information concerning setpoints for the Power Operated Relief Valves (PORVs) at the Shearon Harris Nuclear Power Plant. This information is submitted in response to Safety Evaluation Report (SER) Confirmatory Item No. 10.

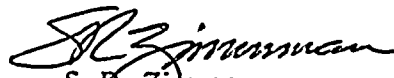
The low temperature overpressure protection PORV setpoints provided below have been determined such that the reactor vessel's Appendix G curve will not be exceeded. This evaluation considers the inadvertent actuation of a single safety injection pump or a heat input for an incorrect reactor coolant pump start assuming a 50°F temperature mismatch of the steam generator primary and secondary sides.

<u>RCS Temperature (°F)</u>	<u>Low PORV Setpoint (psig)</u>	<u>High PORV Setpoint (psig)</u>
<100	390	400
125	400	410
250	400	410
300	425	435
335	440	450
350	2400	2400

The arming temperature for each PORV is 335°F and a pressure alarm will be received 25 psi below the PORV setpoint.

The above response provides sufficient information to close out SER Confirmatory Item No. 10. If you have any further questions on this subject or require additional information, please contact me.

Yours very truly,

  
S. R. Zimmerman  
Manager  
Nuclear Licensing Section

JDK/pgp (3662JDK)

Enclosure

cc: Mr. B. C. Buckley (NRC)  
Mr. G. F. Maxwell (NRC-SHNPP)  
Dr. J. Nelson Grace (NRC-RII)  
Mr. Travis Payne (KUDZU)  
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