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SUBJECT: Provides formal response to NRC question asked during 930129 meeting re limiting condition for operation action requirements.

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SERIAL: NLS-93-039
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United States Nuclear Regulatory Commission
ATTENTION: Document Control Desk
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SHEARON HARRIS NUCLEAR POWER PLANT
DOCKET NO. 50-400/LICENSE NO. NPF-63

SUPPLEMENTAL INFORMATION
LIMITING CONDITIONS FOR OPERATION (LCO) ACTION REQUIREMENTS

Gentlemen:

On January 29, 1993, Carolina Power & Light Company (CP&L) met with the NRC in White Flint, Maryland, to discuss licensing issues related to the Shearon Harris Nuclear Power Plant (SHNPP). One of the issues discussed with the NRC was CP&L's pending Request for License Amendment related to LCO Action Requirements. The purpose of this letter is to provide a formal response to an NRC question asked during that meeting.

With respect to the Request for License Amendment, and specifically the portion dealing with Technical Specification 3.7.1.1, Safety Valves, the NRC asked whether the SHNPP Main Steam Safety Relief (MSSR) valves provide a safety function in Mode 4 (Hot Shutdown).

The SHNPP MSSR valves are spring-loaded with fixed setpoints staggered between 1170 psig and 1230 psig. The design function of these valves is to protect the Main Steam piping and steam generator shell from overpressurization. In Mode 4, with steam generator pressure at approximately 150 psig or less, the MSSRs are closed and cannot be manually operated to remove heat load. Heat removal via the MSSRs is assumed in several of the Final Safety Analysis Report (FSAR) Chapter 15 accident analyses; but in all cases, the MSSRs function to maintain the reactor in a stable condition in Mode 3 (Hot Standby). For Chapter 15 analyses that require the unit to be cooled down and depressurized, such as the Steam Generator Tube Rupture (SGTR) analysis, the MSSRs serve no function and cannot be utilized to place or maintain the unit in Mode 4. Further, the MSSRs are containment isolation valves and are required to be closed in Mode 4, as required by Specification 3.6.3. Therefore, the MSSRs provide no safety function in Mode 4 related to the removal of heat from the RCS.

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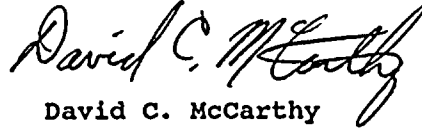
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Please refer any questions regarding this submittal to Mr. R. W. Prunty at
(919) 546-7318.

Yours very truly,



David C. McCarthy
Manager
Nuclear Licensing Section

LSR/jbw

cc: Mr. Dayne H. Brown
Mr. S. D. Ebnetter
Mr. N. B. Le
Mr. J. E. Tedrow

