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 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina  
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SUBJECT: Submits addl info in response to Generic Ltr 89-19 re control sys failures.

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Carolina Power & Light Company

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United States Nuclear Regulatory Commission  
ATTENTION: Document Control Desk  
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT  
DOCKET NO. 50-400/LICENSE NO. NPF-63  
GENERIC LETTER 89-19 CONTROL SYSTEMS FAILURES

Gentlemen:

Carolina Power & Light Company hereby submits additional information in response to NRC Generic Letter 89-19 concerning control systems failures for the Shearon Harris Nuclear Power Plant (SHNPP). Specifically, this information concerns the physical and electrical separation of the Steam Generator Overfill Protection circuits from the Main Feedwater Control System circuits. This information is submitted in response to a verbal request from the NRC staff.

Separation of the Steam Generator Overfill Protection circuits and the Main Feedwater Control System circuits at SHNPP is provided in accordance with Regulatory Guide 1.75 and IEEE-384. Steam Generator Overfill Protection is not located in the same cabinet as the Main Feedwater Control System circuitry. The overfill protection circuitry is located in four safety-grade instrument protection cabinets (Protection Channels I through IV). Control circuitry for the Main Feedwater Control System resides in separate cabinets (Control Cabinets 6, 7, and 8). Raceways and cabling for the Steam Generator Overfill Protection circuits are physically separated from the raceways and cabling for the Main Feedwater Control System circuits. Within the Main Feedwater Control System circuits the safety-related portions are electrically isolated from the non-safety portions in accordance IEEE-384.

Please refer any questions regarding this submittal to Mr. J. H. Eads at (919) 546-4165.

Yours very truly,

L. I. Loflin  
Manager  
Nuclear Licensing Section

JHE/jhe()

cc: Mr. R. A. Becker  
Mr. S. D. Ebner  
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