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SUBJECT: Forwards plant IPEEE final rept in response to GL 88-20,  
Suppl 4.

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JUN 3 0 1995

File Number: HO-950569

William R. Robinson  
Vice President  
Harris Nuclear Plant

SERIAL: HNP-95-061

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  
RESPONSE TO GENERIC LETTER 88-20 SUPPLEMENT 4 - INDIVIDUAL PLANT  
EXAMINATION FOR EXTERNAL EVENTS (IPEEE)**

Gentlemen:

The purpose of this letter is to submit the results of the Individual Plant Examination for External Events for Carolina Power and Light Company's (CP&L) Shearon Harris Nuclear Power Plant (SHNPP) as committed in our letter of October 15, 1992 (see enclosure). The IPEEE was completed in accordance with Generic Letter 88-20, Supplement 4 and the methods outlined in NUREG-1407 (the NRC's procedural and submittal guidance). Evaluation of seismic risk was performed using the Seismic Margins Assessment methodology developed by EPRI. Evaluation of fire risk was performed using the EPRI Fire-Induced Vulnerability Evaluation (FIVE) methodology combined with a traditional fire PRA. Evaluation of risk from other external events (including high winds, external flooding, and transportation and nearby facility accidents) was performed by demonstrating that the plant meets the 1975 Standard Review Plan (SRP) criteria for these external events.

The results of the seismic IPEEE indicate that there are no significant seismic concerns. Six minor modifications/repairs will be completed by the end of Refueling Outage (RFO) 7, currently scheduled for spring 1997. Examples include restraining carts and cabinets to preclude potential impact/interaction and attaching two cabinets together, also to preclude potential impact/interaction.

The fire IPEEE results indicate a core damage frequency (CDF) of approximately  $1.1E-5$  from the risk significant ( $>1E-6$ ) fire scenerios. Per NUMARC/NEI 91-04, "Severe Accident Issue Closure Guidelines," it was not necessary to evaluate modifications or administrative changes to address these scenerios. However, one procedure enhancement related to remote shutdown will be implemented to verify the status of the pressurizer power operated relief valves after transfer to the Auxiliary Control Panel and to require isolation in case of a failed open relief valve. This procedure revision will be completed prior to startup from RFO 6, currently scheduled to begin in September 1995. Using the NUMARC/NEI 91-04 guidelines for IPEEE closure, CP&L expects to consider these scenerios during the development of plant-specific Severe Accident Management Guidance.

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As specified in NUREG-1407, no estimate of core damage frequency is required for other external events since our review showed that SHNPP complies with the 1975 SRP for these external events. This was determined by a review of information available in the Final Safety Analysis Report (FSAR), by collecting supplemental information that might have changed since the last FSAR revision, and by performing a confirmatory plant walkdown.

In accordance with Generic Letter 88-20, the external events portion of USI A-45, "Shutdown Decay Heat Removal Requirements," are subsumed within the IPEEE and are therefore considered resolved. The Eastern United States Seismicity Issue and Generic Issue-131 (seismically induced failure of flux mapping transfer cart) are likewise considered resolved. Also, the Fire Risk Scoping Study Issues in NUREG/CR-5088 were examined and addressed. Finally, this IPEEE addresses the revised "Design Probable Maximum Precipitation" criteria (Generic Letter 89-22) and Hurricane Andrew lessons learned (Information Notice 93-53, Supp. 1).

Questions regarding this matter may be referred to Mr. R. W. Prunty at (919) 362-2030.

Sincerely,

*W. R. Robinson*

RWP/rwp

Enclosure

W. R. Robinson, having been first duly sworn, did depose and say that the information contained herein is true and correct to the best of his information, knowledge and belief; and the sources of his information are officers, employees, contractors, and agents of Carolina Power & Light Company.

*Darlene S. Yarbrough*  
Notary (Seal)

My commission expires: 2-6-2000

c: Mr. S. D. Ebnetter  
Mr. S. A. Elrod  
Mr. N. B. Le



