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 FACIL: 50-261 H. B. Robinson Plant, Unit 2, Carolina Power & Light C      05000261  
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SUBJECT: Forwards suppl to "DB-50 Breaker Interrupt Accident Sequence Analysis for Unit 2 Electrical Distribution Sys," per 870521 commitment. Rept supports estimates of low risk significance of accident sequences involving large fault currents.

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H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2  
DOCKET NO. 50-261/LICENSE NO. DPR-23  
HUMAN RELIABILITY ANALYSIS  
DB-50 INTERRUPT CAPABILITY

- REFERENCES:
- 1) DB-50 Breaker Interrupt Capability-Probabilistic Risk Assessment Report Submittal M. A. McDuffie to Dr. J. N. Grace dated May 21, 1987
  - 2) DB-50 Interrupt Capability, R. B. Richey to Dr. J. N. Grace dated December 11, 1987

Gentlemen:


The enclosed Human Reliability Analysis (HRA) report is forwarded to fulfill a commitment made in Reference 1. The HRA further supports the estimates of low risk significance of accident sequences involving large fault currents by evaluating the likelihood of operators to diagnose and respond to such events. The final accident sequence (TfOmDh) probability of 1.4E-6 results from improvements to the Dedicated Shutdown System procedures and is lower than the probability of 2.0E-6 submitted in Reference 1. Carolina Power & Light Company believes that the probabilistic study documents that continued operation is fully justified.

As discussed in Reference 2, Carolina Power & Light Company intends to complete a design basis reconstitution for the Emergency AC Distribution System which will necessarily consider the DB-50 interrupt capability. Any appropriate modifications will be implemented as discussed in the December 11, 1987 letter.

Questions regarding this matter may be referred to Mr. R. W. Prunty at (919) 836-7318.

Yours very truly,

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