

May 29, 1985

Docket Nos. 50-325/324

Mr. E. E. Utley  
Executive Vice President  
Carolina Power & Light Company  
Post Office Box 1551  
Raleigh, North Carolina 27602

DISTRIBUTION

Docket File

Local PDR  
HThompson  
SNorris  
ELJordan  
BGrimes  
Gray File  
PKang

NRC PDR  
ORB#2 Rdg  
OELD  
MGrotenhuis  
JPartlow  
ACRS (10)  
RDudley

Dear Mr. Utley:

SUBJECT: ADEQUACY OF STATION ELECTRICAL  
DISTRIBUTION SYSTEM VOLTAGES (B-48)

Re: Brunswick Steam Electric Plant, Units 1 and 2

By letter dated August 30, 1984, Carolina Power & Light Company (CP&L) submitted a revised voltage drop study titled "Auxiliary Electrical Distribution System Study for the Brunswick Steam Electric Plant Units 1 and 2." A previous study had been submitted but when you identified certain discrepancies in the input data used in the voltage analysis you informed the NRC that to confirm the validity of the conclusion, CP&L would be submitting a revised analysis for our review.

The August 1984 study explained that the major difference between the revised study and the previous study was the accident scenario used to establish the minimum voltage for the offsite power source. The previous study applied a simultaneous loss-of-coolant accident (LOCA) on both units. The new study was performed using an accident scenario of LOCA on one unit and a shutdown on the other unit.

We have reviewed the revised study and its verification test. The study has demonstrated that the existing Brunswick Units 1 and 2 electrical distribution system meets staff positions on adequacy of station electrical distribution system voltages. Therefore, we find the study to be acceptable.

We have enclosed a Safety Evaluation based on this new study along with EG&G's Technical Evaluation Report (TER) dated May 1985 (EGG-EA-6773).

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief  
Operating Reactors Branch #2  
Division of Licensing

8506170081 850529  
PDR ADDCK 05000324  
P PDR

Enclosures:  
As stated

cc w/enclosures:  
See next page

DL:ORB#2  
SNorris:ajs  
05/29/85

DL:ORB#2  
MGrotenhuis  
05/29/85

DL:ORB#2  
DVassallo  
05/29/85

Mr. E. E. Utley  
Carolina Power & Light Company  
Brunswick Steam Electric Plant; Units 1 and 2

cc:

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