



Carolina Power & Light Company

P.O. Box 1551 • Raleigh, N.C. 27602

JAN 05 1990

A. B. CUTTER  
Vice President  
Nuclear Services Department

SERIAL: NLS-89-323

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

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-325 & 50-324/LICENSE NOS. DPR-71 & DPR-62  
DETAILED CONTROL ROOM DESIGN REVIEW

Gentlemen:

In a letter dated November 2, 1989 the NRC provided Carolina Power & Light Company with the results of the Staff's evaluation of the Brunswick Detailed Control Room Design Review (DCRDR) and the results of the post-implementation audit of the Brunswick Safety Parameter Display System (SPDS). This letter also requested CP&L to (1) address corrective actions for three EOP instrumentation human engineering discrepancies (HEDs) and (2) provide a description of the results of the disposition of the 206X-2106 "joy stick zoning" HED along with schedule for implementing any associated corrective actions.

Carolina Power & Light Company plans to correct the three EOP instrumentation HEDs (206X-5092, 5093, and 5094) as proposed in Revision 1 to the Brunswick DCRDR Final Summary Report, dated June 23, 1987 (NLS-87-123). Modifications will be performed to add the appropriate instrumentation in the Control Room. These modifications are scheduled to be completed by the end of Reload 7 for Brunswick-1 (currently scheduled to begin June 1990) and by the end of Reload 9 for Brunswick-2 (currently scheduled to begin May 1991).

The Company has evaluated HED 206X-2106 and has determined that the disposition stated in Revision 1 to the Brunswick DCRDR Final Summary Report is correct. The joy stick zoning will be modified by separating the acknowledge and test function into acknowledgement zones where annunciators can only be acknowledged, reset, and tested by adjacent annunciator control stations at the associated panel. The ability to silence an annunciator from any station will be maintained. These modifications will be completed by the end of Reload 8 for Brunswick-1 (currently scheduled to begin February 1992) and by the end of Reload 9 for Brunswick-2 (currently scheduled to begin May 1991).

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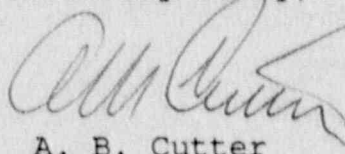
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As a result of the post-implementation audit of the Brunswick SPDS, the Staff concluded that the Brunswick SPDS program does not meet certain criteria of NUREG-0737, Supplement 1 and stated that this will remain open until the Brunswick SPDS is certified. In our July 11, 1989 response to Generic Letter 89-06 (NLS-89-202), CP&L discussed the need to modify certain SPDS capabilities in order to fully meet the requirements of NUREG-0737, Supplement 1. As committed to in this response, these modifications are scheduled for completion by December 31, 1990.

Following the NRC audit of the Brunswick SPDS, the Company contracted Eigen Engineering, Inc. to conduct an independent assessment of the Brunswick SPDS to NSAC 39 guidelines. This will ensure that the Brunswick SPDS fully complies with regulatory requirements. Deficiencies which may be identified in this effort will be assessed for impact on the completion schedule for the SPDS upgrade.

Please refer any questions regarding this submittal to Mr. M. R. Oates at (919) 546-6063.

Yours very truly,



A. B. Cutter

ABC/MAT

Enclosure

cc: Mr. S. D. Ebnetter  
Mr. W. H. Ruland  
Mr. E. G. Tourigny