



Carolina Power & Light Company

P.O. Box 10429
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July 26, 1993

ROY A. ANDERSON
Vice President
Brunswick Nuclear Plant

SERIAL: BSEP 93-0115

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
RESPONSE TO REQUEST FOR ADDITIONAL INFORMATION - EMI/RFI TESTING

Gentlemen:

The purpose of this letter is to provide the NRC with the Test Report for Point of Installation Electromagnetic Interference (EMI) mapping of the control rooms for Carolina Power & Light Company's (CP&L) Brunswick Units 1 and 2 (Attachment 1). This report presents the data collected and describes the methods used for point of installation electromagnetic interference mapping of the control rooms at Brunswick. Testing was performed in accordance with the methodology of this document, referencing IEC 801-3, Edition 1, SAMA Standard PMC 33.1-1978, MIL-STD-1399, MIL-STD-461C, and MIL-STD-462. Data collection was performed to identify the potential radiators and receptors at the Brunswick Plant that could pose an EMI threat to the normal operating characteristics of the GE NUMAC Leak Detection Monitor (LDM) system.

This letter also provides the NRC with the Test Report for Analysis of EMI Main Control Room Mapping Data and GE NUMAC LDM (Attachment 2). This report describes in detail the analytical methods and procedures used, and the results obtained therefrom, in analyzing the mapping data taken at CP&L's Brunswick Units 1 and 2, and comparing these data to the EMI susceptibility test data obtained during prior testing on various GE non-LDM NUMAC monitors.

The analysis of the test data shows that 1) no unusual measurement data were encountered at Brunswick, 2) the minimum EMI emission and susceptibility test limits recommended in the report for the GE NUMAC LDM are realistic and expected to be readily achievable, and 3) the similarities in design and comparative analysis of the site

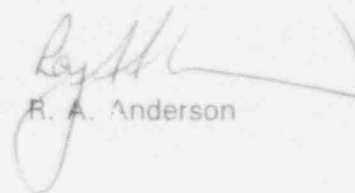
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emissions data and the available GE NUMAC equipment susceptibility data provide a high level of confidence that the NUMAC LDM unit will not be adversely affected by the present on site equipment.

Please refer any questions regarding this submittal to Mr. K. A. Harris at (919) 457-3312.

Yours very truly,



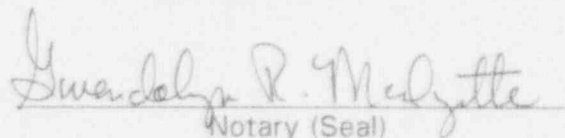
R. A. Anderson

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Enclosure

cc: Mr. S. D. Ebnetter
Mr. P. D. Milano
Mr. R. L. Prevatte

Roy A. Anderson, 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.



Notary (Seal)

My commission expires: August 12, 1996

ATTACHMENT 1

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2
NRC DOCKET NOS. 50-325 & 50-324
OPERATING LICENSE NOS. DPR-71 & DPR-62
TEST REPORT FOR POINT OF INSTALLATION ELECTROMAGNETIC INTERFERENCE (EMI)
MAPPING OF CONTROL ROOMS, BRUNSWICK PLANT, UNITS #1 AND #2