

Carolina Power & Light Company

Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429

May 31, 1983

FILE: B09-13510C SERIAL: BSEP/83-1581

Mr. James P. O'Reilly, Administrator U. S. Nuclear Regulatory Commission Region II, Suite 3100 101 Marietta Street N.W. Atlanta, GA 30303

> BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2 DOCKET NOS. 50-325 AND 50-324 LICENSE NOS. DPR-71 AND DPR-62 30-DAY NONROUTINE RADIOLOGICAL ENVIRONMENTAL EVENT REPORT

Dear Mr. O'Reilly:

Results of gamma analysis of two bottom sediment samples collected April 5 and 6, 1983, as part of Brunswick Steam Electric Plant's Environmental Radiological Monitoring program detected Co-60 at a concentration of  $1.17 \pm 0.05$  pCi/g at sample station No. 33 and  $1.25 \pm 0.04$  pCi/g at sample station No. 34. The analysis of these samples was completed on May 2, 1983. The MDA values for these stations are 0.06 pCi/g at sample station No. 33 and 0.03 pCi/g at sample station No. 34. The Co-60 activity found in these samples constitutes a 30-day reportable event in accordance with Technical Specifications, Appendix B, Section 5.4.2b, pertinent to environmental sampling.

These bottom sediment samples were collected as part of an expanded surveillance program on sediment in the discharge canal. The current sample results indicate decreasing Co-60 activity at sample station No. 33 and increasing activity at sample station No. 34 when compared with data from March 1983 sample results. It is not known at this time if these are actual changes in activity or if they are due to sampling variables.

The Co-60 activity found in these samples is reportable due to a factor of 10 increase above the MDA. There is no radiation hazard or exposure to the public due to this activity. There was no Co-60 found in surface water samples from the intake and discharge canals or from the ocean during April 1983.

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## Mr. James P. O'Reilly

The sampling frequency for bottom sediment samples has been increased from semiannually to monthly for the period of November 1982 through June 1983 in order to more closely monitor the Co-60 activity levels in the discharge canal and to determine if trends in these activity levels can be predicted. These samples represent the sixth of the monthly samples that will be taken in this effort.

Very truly yours, riginal Signed C.R. Duch

C. R. Dietz, General Manager Brunswick Steam Electric Plant

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Enclosure

cc: Mr. R. C. DeYoung NRC Document Control Desk

bcc: Mr. D. L. Bensinger Mr. A. G. Cheatham III Mr. R. M. Coats Mr. A. B. Cutter Mr. J. S. Dietrich/File: B-X-545 Dr. T. S. Elleman Mr. B. J. Furr Mr. W. P. Guarino Mr. L. P. Hewlett Mr. P. W. Howe Dr. J. D. E. Jeffries INPO Mr. I. A. Johnson Mr. L. E. Jones Mr. L. H. Martin Mr. C. H. Moseley Mr. D. O. Myers Mr. C. E. Robertson Mr. J. J. Sheppard/File: BC/A-4 Mr. R. B. Starkey, Jr. Mr. L. V. Wagoner Mr. J. L. Willis Ms. M. S. Wingo