



Carolina Power & Light Company

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

March 21, 1983

FILE: B09-13510C  
SERIAL: BSEP/83-801

Mr. James P. O'Reilly, Director  
US Nuclear Regulatory Commission  
Region II, Suite 3100  
101 Marietta Street, NW  
Atlanta, GA 30303

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2  
DOCKET NOS. 50-324 and 50-325  
LICENSE NOS. DPR-71 AND DPR-72  
30-DAY NON-ROUTINE RADIOLOGICAL ENVIRONMENTAL EVENT REPORT

Dear Mr. O'Reilly:

Results of gamma analysis of a bottom sediment sample collected February 1, 1983, as part of Brunswick Steam Electric Plant's Environmental Radiological Monitoring program, detected Co-60 at a concentration of  $9.08 \pm 0.16$   $\mu\text{Ci/g}$  at sample station number 33. The analysis of this sample was completed on February 21, 1983. The MDA value for this station is 0.11  $\mu\text{Ci/g}$ . The Co-60 activity found in this sample constitutes a 30-day reportable event in accordance with Technical Specifications, Appendix B, Section 5.4.2b, pertinent to environmental sampling.

This bottom sediment sample was collected as part of an expanded surveillance program on the sediment in the discharge canal. The current sample results indicate a static condition at station number 33. Station number 34 which was reportable in December 1982, increased by a factor of two over samples taken in January 1983, but still remains at very low level of Co-60 in the sediment.

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

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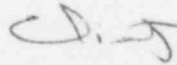
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Mr. J. P. O'Reilly

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The sampling frequency for bottom sediment samples has been increased from semi-annually to monthly for the period of November 1982 through June 1983, in order to more closely monitor the increased Co-60 activity levels and to determine if trends in the activity levels in the discharge canal bottom sediments can be predicted. This sample represents the fourth of the monthly samples that will be taken in this effort.

Very truly yours,



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

AHC/isd/LETISD

Enclosure

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