

USNRC REGION II
ATLANTA, GEORGIA

CP&L

Carolina Power & Light Company

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

June 17, 1983

FILE: B09-13510C
SERIAL: BSEP/83-1800

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
COCKET 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 a bottom sediment sample collected May 2, 1983, as part of Brunswick Steam Electric Plant's Environmental Radiological Monitoring Program, detected Co-60 at a concentration of 5.1 ± 0.02 pCi/g at sample station No. 33. The analysis of this sample was completed on May 20, 1983. The MDA value for this station is 0.06 pCi/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.

The Co-60 activity found in this sample 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 activity found in surface water samples taken in the intake and discharge canals or in the ocean during May 1983.

This bottom sediment sample was collected as part of an expanded surveillance program on bottom sediment in the discharge canal. The current sample results indicate an increase in activity when compared with sample results from April 1983. It is not known at this time if this is an actual increase or if it is due to sample variables.

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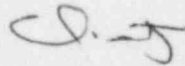
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Mr. James P. O'Reilly

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The sampling frequency for bottom sediment samples has been increased from semiannually to monthly for the period 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. This sample represents the seventh of the monthly samples that will be taken in this effort.

Very truly yours,



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

AHC/jo/LETJ03

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