

USNRC REGION II
ATLANTA, GA CP&L

Carolina Power & Light Company

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

July 18, 1983

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SERIAL: BSEP/83-2234

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 June 1, 1983, as part of Brunswick Steam Electric Plant's Environmental Radiological Monitoring Program, detected Co-60 at a concentration of 11.40 ± 0.3 pCi/g at sample station number 33 and 0.53 ± 0.03 pCi/g at sample station number 34. The analysis of these samples was completed on June 21, 1983. The MDA values for these samples are 0.18 pCi/g at sample station number 33 and 0.02 pCi/g at sample station number 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 increasing Co-60 activity at sample station number 33 and number 34. It is not known at this time if these are actual increases in Co-60 activity or if the increased activity is 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 activity found in surface water samples taken in the intake and discharge canals or in the ocean during June 1983.

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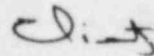
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Mr. O'Reilly

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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. Due to the apparent increase in activity, the monthly sampling of the bottom sediments in the discharge canal will be continued.

Very truly yours,



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

AHC/rd/LETDJ5

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