

CP&L

Carolina Power & Light Company

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

August 25, 1983

FILE: B09-13510C
SERIAL: BSEP/83-2747

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 NO. DPR-71 AND DPR-62
30-DAY NONROUTINE RADIOLOGICAL ENVIRONMENTAL EVENT REPORT (2-SR-83-22)

Dear Mr. O'Reilly:

Results of gamma analysis of two bottom sediment samples collected July 5, 1983, as part of Brunswick Steam Electric Plant's Environmental Radiological Monitoring Program, detected Co-60 at a concentration of 8.77 ± 0.24 pCi/g at sample station number 33 and 2.37 ± 0.05 pCi/g at sample station number 34. The analysis of these samples was completed on July 26, 1983. The MDA values for these samples are 0.23 pCi/g for sample station number 33 and 0.04 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 a decrease in activity at sample station number 33 and an increase in activity at sample station number 34 as compared with results from samples taken in June 1983. It is not known if these are actual changes in activity or if the changes are due to sampling variables.

The Co-60 activity found in these samples is reportable due to a factor of ten 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 July 1983.

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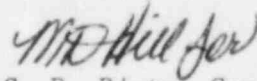
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Mr. J. P. O'Reilly

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The frequency for sampling bottom sediments has been increased from semiannually to monthly in order to more closely monitor the increased Co-60 activity and to determine if trends in the activity levels in the bottom sediments can be predicted.

Very truly yours,



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

AHC/mcg/LETG2

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