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USNRC REGION
ATLANTA, GEORGIA

Carolina Power & Light Company

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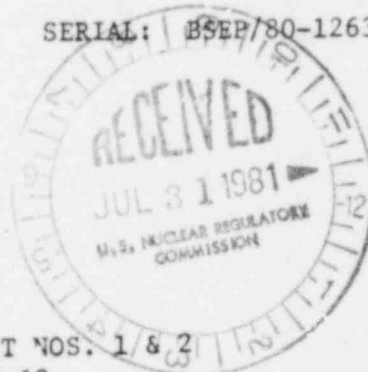
Brunswick Steam Electric Plant
P. O. Box 10429
Southport, N. C. 28461

July 29, 1980

FILE: B09-13516

SERIAL: BSEP/80-1263

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303



BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 & 2
LICENSE NOS. DPR-71 AND DPR-62
DOCKET NOS. 50-325 AND 50-324

CONFIRMATION FACSIMILE FOR AN IMMEDIATELY REPORTABLE EVENT (2-80-55)

Dear Mr. O'Reilly:

This facsimile confirms the conversation between Mr. A. C. Tollison, Jr., General Plant Manager, Mr. Jerry Waldorf, NPPED Resident Engineer, Mr. E. A. Bishop, Plant Project Engineer, Mr. M. J. Pastva, Jr., Regulatory Technician and Mr. Leo Modinas, Mr. Al Herdt, and Mr. Paul Kellog of your office at 1515 on July 28, 1980.

As a result of Carolina Power & Light Company's review of CRD piping in conjunction with IE Bulletin 80-17 concerns, it has been determined that anchor bolt testing as required by IE Bulletin 79-02 had not been performed on the CRD piping designed and installed by Reactor Controls Inc.

This is apparently due to the unusual arrangements made to have this piping installed as compared to the remainder of all other safety-related piping at the Brunswick units. Specifically, all other piping was designed by either United Engineers and Constructors, the plant A/E, or General Electric, NSSS supplier. All piping designed by either of these two sources was installed by the plant constructor, Brown and Root, Inc. The CRD piping, however, was designed and installed by Reactor Controls, Inc. under subcontract to Brown and Root, Inc. Consequently, during the review of safety-related piping to be considered for anchor bolt testing, which was performed for CP&L by United Engineers and Constructors, this piping was overlooked.

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Mr. James P. O'Reilly

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July 29, 1980

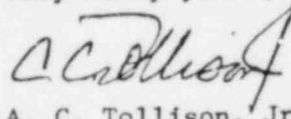
Anchor bolts are currently being tested on both units in accordance with approved procedures. Because of an unusually high rejection rate, the acceptance criteria for the anchor bolt plates has been upgraded to require that all anchor bolts on each plate successfully pass before the anchor plate is accepted. This change was applied conservatively due to the high failure rate (approximately 90 percent) being found on this piping. The 90 percent failure rate compares to a failure rate of about 5 percent for the anchors installed by Brown and Root, Inc. The primary reasons for rejection of anchor bolts are related to improper anchor length and thread engagement with the majority of the bolts passing the torque test which simulates a tension load on the anchor.

Carolina Power & Light Company has additionally determined that the CRD piping supplied by Reactor Controls, Inc. has not received an as-built walkoff within the 12 months prior to issuance of IE Bulletin 79-14 and thus does not meet the requirements of the Bulletin 79-14. Therefore, verifications as required by this bulletin are currently being performed for both units. Records from Reactor Controls, Inc. do, however, document that the seismic analysis has been reconciled with as-built drawings obtained immediately following installation. Review of analysis techniques used by Reactor Controls, Inc. has verified that the square root of the sum of the squares was used in the seismic analysis rather than the algebraic summation method.

Carolina Power & Light Company will complete all anchor bolt repairs and as-built verifications on piping essential to safe shutdown prior to startup of each unit. Completion of anchor bolt repairs and as-built verifications of piping not related to safe shutdown will be completed within 7 days following reactor startup on each unit.

This event is being reported under Technical Specification 6.9.1.8i.

Very truly yours,



A. C. Tollison, Jr., General Manager
Brunswick Steam Electric Plant

MJP/bd

cc: Mr. R. A. Hartfield
Mr. V. Stello
Mr. E. L. Zebroski