Hdqtrs. PDR

CP&L

Carolina Power & Light Company

Brunswick Steam Electric Plant
P. O. Box 458
Southport, N. C. 28461

February 27, 1979

SERIAL: BSEP/79-214

FILE: B3516.2

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

Dear Mr O'Reilly:

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 & 2
LICENSE NO. DPR-62 AND DPR-71
DOCKET NO. 50-324 AND 50-325
CONFIRMATION FACSIMILE FOR AN IMMEDIATELY REPORTABLE EVENT

In accordance with Technical Specification 6.9.1.8.i, the following event is reported:

On February 27, 1979, we were informed by the plant architect-engineer that, during the Annulus Pressurization Study, it was discovered that one feedwater pipe whip restraint (on each unit) was not installed as assumed in the original pipe whip analysis.

This restraint is located in the drywell at the 69'-2" elevation on feedwater line 'A' at reactor vessel penetration N-4B, 135°. The restraint surrounds the vertical feedwater line immediately upstream of the 90° elbow where the line turns horizontal to enter the reactor vessel. The pipe whip analysis assumed the restraint was located 36" in elevation below the centerline of the nozzle/safe-end. The actual location is 54" below the nozzle/safe-end centerline.

In event of a pipe break in the safe-end area, this results in a longer moment arm for pipe whip and possible "plastic hinge" at the restraint. Since the drywell wall is approximately 22" from the feedwater line, there is a possibility of contact, a condition not permitted in the analysis.

This condition does not exist on the other three feedwater lines on each unit. The condition is created on feedwater line 'A' by the larger rectangular "window" in the reactor vessel shield wall needed to accommodate the CRD return line in addition to the feedwater line.

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The architect-engineer's preliminary estimate is that no damage would occur to the drywell liner and wall even if the pipe break and whip occurred. Analysis is in progress to verify this. Measures for permanent solution on both units are under investigation.

This facsimile confirms the telephone conversation between Mr. Tollison and Mr. Riley on February 27, 1979. This was also reported to Mr. Caudle Julian on-site on February 27, 1979.

Very truly yours,

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

ACT/nrc

cc: H. R. Banks