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

August 17, 1981

FILE: B09-13516
SERIAL: BSEP/81-1531

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



BRUNSWICK STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-324
LICENSE NO. DPR-62
SUPPLEMENT TO LICENSEE EVENT REPORT 2-80-30

Dear Mr. O'Reilly:

In accordance with Section 6.9.1.9b of the Technical Specifications for Brunswick Steam Electric Plant, Unit No. 2, the enclosed supplemental Licensee Event Report is submitted. The original report fulfilled the requirement for a written report within thirty (30) days of a reportable occurrence and both are in accordance with the format set forth in NUREG-0161, July 1977.

Very truly yours,

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

RMP/gvc

Enclosure

cc: Mr. R. A. Hartfield
Mr. V. Stello, Jr.

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LER ATTACHMENT - RO #2-80-30

Facility: BSEP Unit No. 2

Event Date: 4/12/80

The 2B RHR heat exchanger waterbox lower head was removed to inspect the RHRSW piping and the connection piping to the heat exchanger. During this inspection, it was found that the heat exchanger baffle plate was displaced approximately 8.5" at the bottom. The welds up each side of the plate were found pulled loose within 8-10" of the tube sheet. As a result, a service water flow path was created from the heat exchanger inlet to the outlet bypassing the tubes.

The purpose of the plate is to separate RHRSW entering the heat exchanger from RHRSW leaving after it has passed through the heat exchanger U-tubes. The top of the plate is welded to the tube sheet, both sides are welded to the waterbox walls and the bottom fits into a groove in the waterbox channel cover. The plate is 1" thick x 44 3/4" high x 54" wide and is made of SB-402, Alloy 715 (70-30 Cu-Ni) material.

During this inspection, a 1/2" to 1" thick accumulation of marine growth shells was found in the inlet side of the heat exchanger waterbox. As a result of the damage discovered in 2B, the 2A heat exchanger was also inspected. The 2A inspection revealed no baffle plate damage, although approximately the same shell accumulation was found in the inlet waterbox. These shells were also removed and both heat exchangers were restored to normal service.

As a result of the 2B heat exchanger baffle plate failure, an inspection of the Unit No. 1 heat exchangers and a reinspection of the Unit No. 2 heat exchangers was performed in April of 1981. The results of these inspections are contained in LER's 1-81-32 and 2-81-49.