

Carolina Power & Light Company FR

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

January 25, 1982

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Mr. James P. O'Reilly, Director U. S. Nuclear Regulatory Commission Region II, Suite 3100 101 Marietta Street N.W. Atlanta, GA 30303 RECEIVED RECEIVED EEB 4 1982 M The series and series and the series and the series and series and the series and ser

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BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 & 2 DOCKET NOS. 50-325 AND 50-324 LICENSE NOS. DPR-71 AND DPR-62 SPECIAL REPORT PER TECHNICAL SPECIFICATION 3.5.3.1

Dear Mr. O'Reilly:

During a reactor startup with the reactor subcritical, an automatic start and injection of 1A and 1B Core Spray Systems occurred while performing ground hunting on the Unit No. 1 DC Electrical System. This resulted in an indicated ten-inch increase in reactor level. Immediately following the injection, the Core Spray Systems' pumps were secured and vessel level was stabilized and returned to normal.

This event occurred due to a loss of the Division II ECCS analog instrumentation power supply. In accordance with the ground hunting procedure, the Division II ECCS analog instrumentation No. 2 power supply was deenergized to allow ground hunting in that portion of the system. Following the ground hunting, when the No. 2 power supply was reenergized, its topaz inverter negative lead supply fuse blew, preventing the reestablishment of the No. 2 power supply. This occurrence was not detected by the personnel performing the ground hunting; either by clearing the applicable RTGB annunciator or by verifying its power available indication at the No. 2 power supply topaz inverter. Later in the procedure, when the No. 1 power supply to Division II ECCS analog instrumentation was deenergized, the resulting complete loss of Division II ECCS analog instrumentation power caused the core spray initiation and injection. During the investigation of this event, attempts to troubleshoot the fuse failure could not determine the cause. The fuse was replaced and the system was returned to service.

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Following this event, a review of the DC electrical ground hunting procedure was performed. As a result of the review, changes are in progress to the procedure which will ensure a verification of ECCS analog instrument power supplies prior to deenergizing portions of the DC Electrical System to perform ground hunting. It is felt these changes will help in the prevention of future similar events.

Very truly yours,

Clist

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

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cc: Mr. V. Stello, Jr.