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U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OM8 NO. 3150-0104 EXPIRES: 8/31/85

| ACILITY NAME (1) | DOCKET NUMBER (2) | L | ER NUMBER (6) | PAGE (3) | | | |
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| Brunswick Steam Electric Plant Unit | 2 0 15 10 10 10 1 3 1 2 14 | 814 - | 0 0 17 | -0 p | 0 12 | OF | 012 |

During testing of the Unit 2 main steam relief values at Wyle Laboratories, 5 of the 11 values tested exhibited initial actuation pressures higher than the 1 percent tolerance range specified in the technical specifications. The BWR Owners' Group, through its SRV setpoint drift testing and evaluation program, has concluded that:

SRV setpoint drift originates from only two causes. The first and most prominent is high friction in the labyrinth seal guide area associated with a clearance less than the minimum required by design. The second cause, which occurs only infrequently, is pilot disc-to-seat sticking associated with corrosion at the pilot disc-to-seat interface.

The data for the setpoint drift associated with these values indicate the cause to be increased labyrinth seal friction. The values associated with this report are Model 7567F, manufactured by Target Rock Corporation.

The overpressure protection system must accommodate the most severe pressurization transient. This transient is the closing of all main steam isolation valves. BWRs employing the two-stage SRVs have sufficient margin to tolerate SRV drift and/or valve failure.

Of the five values exhibiting setpoint drift, only one would not lirt during the initial testing. The testing was terminated on this value prior to exceeding the value design rating of 1250 psig. The four other values exhibited drifts of between 17 and 95 psig.

Improved maintenance practices recommended by the BWR Owners' Group were implemented in May 1984. This includes specific testing to identify origins of any drift found during the as-received testing of the SRVs at Wyle Laboratories and refurbishment/maintenance which is directed at the specific cause of the setpoint drift.

AC Form 366A



Carolina Power & Light Company

Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429 June 21, 1984

FILE: B09-13510C SERIAL: BSEP/84-1522

NRC Document Control Desk U. S. Nuclear Regulatory Commission Washington, DC 20555

> BRUNSWICK STEAM ELECTRIC PLANT, UNIT 2 DOCKET NO. 50-324 LICENSE NO. DPR-62 LICENSEE EVENT REPORT 2-84-7

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-1022, September 1983.

Very truly yours,

Diat

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

MJP/jlh/LETJH1

Enclosure

cc: Mr. J. P. O'Reilly

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