

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

December 9, 1985 DEC 17 P 3:57

BLRD-50-438/84-35

BLRD-50-439/84-32

U.S. Nuclear Regulatory Commission

Region II

Attn: Dr. J. Nelson Grace, Regional Administrator

101 Marietta Street, NW, Suite 2900

Atlanta, Georgia 30323

Dear Dr. Grace:

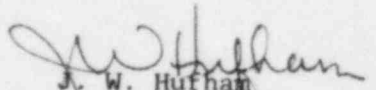
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - USE OF INCORRECT ADAPTORS ON
INSTRUMENTATION LINES - BLRD-50-438/84-35, BLRD-50-439/84-32 - REVISED FINAL
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on May 10, 1984 in accordance with 10 CFR 50.55(e) as NCR
3102. This was followed by our interim reports dated June 4 and
September 21, 1984 and February 25 and July 2, 1985 and our final report dated
October 16, 1985. Enclosed is our revised final report.

If you have any questions, please get in touch with R. H. Shell at
FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


J. W. Hufham
Manager of Licensing

Enclosure

cc: Mr. James Taylor, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center (Enclosure)
Institute of Nuclear Power Operations
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Atlanta, Georgia 30339

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
USE OF INCORRECT ADAPTORS ON INSTRUMENTATION LINES
BLRD-50-438/84-35 AND BLRD-50-439/84-32

NCR 3102

10 CFR 50.55(e)

REVISED FINAL REPORT

Description of Deficiency

A problem has been identified at Bellefonte Nuclear Plant (BLN), which involves adaptors (sized 3/4-inch and under) used to connect instrument piping to instrument tubing. For tube-to-pipe adaptors with TVA mark numbers 142, 155, 158, 690, 691, 692, and 778, the TVA mark number or schedule is not affixed to the adaptor (they are not required to be), and the proper schedule adaptor required by design drawings may not have been used in all cases. TVA expanded the investigation of the deficiency to include one inch adaptors.

The cause of this deficiency is the lack of schedule identification on the adaptors and the fact that documentation of inspection verification of the adaptor's schedule is not required by present quality control procedures. TVA has determined that the cited deficiency is not applicable to Watts Bar Nuclear Plant (WBN). WBN site procedures differ from BLN site procedures in that WBN inspectors are required to determine the correct adaptor schedule from a computer log and compare this to the bill of materials for a given adaptor.

Safety Implications

A mismatch in the schedules of pipe-to-tube adaptors used and the schedules required by design drawings could allow the use of adaptors having a wall thickness less than required to assure pressure retention in the respective instrumentation line. This then could cause various unspecified instrumentation lines to fail with transmittal of spurious signals, which could activate safety equipment inappropriately or could cause erroneous operator response.

Corrective Action

TVA has evaluated all of the adaptors within the scope of the nonconformance report. All of the adaptors were accepted for use "as is" except for three feedwater system (CF) adaptors. Sequence Control Chart (SCC) 1CF-I401 was issued to replace the adaptors, and the replacement is complete.

To prevent recurrence of this deficiency, TVA has revised BLN Quality Control Procedure (BLN-QCP) 7.9, "Fitup and Cleanliness," for the welding quality control inspector to verify that the correct adaptor is installed.