

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

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November 2, 1983

WBRD-50-390/83-23
WBRD-50-391/83-22
BLRD-50-438/83-27
BLRD-50-439/83-22

U.S. Nuclear Regulatory Commission
Region II

Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR AND BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2 - QA PROGRAM ON
TUBELINE MATERIALS SUPPLIED BY CAPITOL PIPE - WBRD-50-390,391/83-
23,22,BLRD-50-438,439/83-27,22 - FOURTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Linda Watson on March 29, 1983 in accordance with 10 CFR 50.55(e)
as NCR GEN MEB 8301. Interim reports were submitted on April 28,
June 23, and September 21, 1983. Enclosed is our fourth interim report.
We expect to submit our next report by November 21, 1983. TVA considers 10
CFR Part 21 applicable to this deficiency.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

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PDR ADOCK 05000390
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Enclosure

cc (Enclosure):

Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE

WATTS BAR AND BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2
QA PROGRAM ON TUBELINE MATERIALS SUPPLIED BY CAPITOL PIPE
WBRD-50-390,391/83-23,22, AND BLRD-50-438,439/83-27,22
NCR GEN MEB 8301
10 CFR 50.55(e)
FOURTH INTERIM REPORT

Description of Deficiency

Capitol Pipe and Steel Products Company, Bala Cynwyd, Pennsylvania, supplied carbon steel (CS) and stainless steel (SS) flanges and butt welding fittings manufactured by Tube-Line (T-L), Incorporated, Long Island, New York, and Carroll Stream, Illinois, to TVA during the period February 3, 1982, to January 27, 1983, which Capitol sold as ASME Section III material. However, it has now been determined that the material was not manufactured under a QA program. Recent experience with T-L by other companies has shown that material did not meet the material specification for heat treatment.

Interim Progress for Watts Bar

The safety-related carbon steel (CS) fittings manufactured by Tube-Line (T-L) which were installed in the steam generator blowdown system have been removed and replaced with other fittings which comply fully with ASME Code Section-III requirements.

The testing on the welded with filler metal stainless steel (SS) fittings has been completed. The product analysis, hydrostatic testing, radiographic testing (RT), solution heat treatment verification tests, and in-place verification testing of installed material (to verify that the installed material is the same as that which was laboratory tested) were successfully completed with no failures. Therefore, TVA intends to uniquely mark the installed fittings as required by item IV.c of the SS program plan which was included in TVA's third interim report (dated September 21, 1983) on this matter. The installed fittings will be left in the safety-related system in which they are presently installed.

Testing on the non-installed welded without filler metal SS fittings is in progress at TVA's Singleton Materials Laboratory (SME). There have been no failures to date. Also, the in-place testing required for the installed welded without filler metal fittings has been completed, and these results will be compared to the results of the SME tests. Those heats on which both in-place and SME tests have been completed have experienced no failures; thus, those fittings are acceptable and will remain in the safety-related systems in which they are installed.

Interim Progress for Bellefonte

Bellefonte Construction Project (BLN CONST) has been instructed to remove all Tube-Line CS fittings and flanges which are installed in safety-related piping systems. These will be replaced with other fittings which comply fully with ASME Code Section III requirements. No SS fittings manufactured by Tube-Line have been identified at Bellefonte.