

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 24, 1982

WBRD-50-390/81-60
WBRD-50-391/81-56

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - VENDOR WELDS IN TRITIATED AND FLOOR
DRAIN COLLECTOR TANKS - WBRD-50-390/81-60, WBRD-50-391/81-56 - FINAL
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. Taylor on July 7, 1981 in accordance with 10 CFR 50.55(e) as
NCR 3380R. Interim reports were submitted on August 7, September 30,
and November 16, 1981 and February 17 and June 30, 1982. Enclosed is
our 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

L. M. Mills

L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
VENDOR WELDS IN TRITIATED AND FLOOR DRAIN COLLECTOR TANKS
NCR 3380R
WBRD-50-390/81-60, WBRD-50-391/81-56
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

TVA craft employees had indicated that welds were deficient on the seismic 1(L) supports to the tritiated drain collector tank and the floor drain collector tank.

This item was deemed reportable because of the implications of deficient vendor welds as a potential safety concern and indicated a potentially inadequate vendor inspection program. The deficient welds were caused by incorrect welding by Westinghouse subcontractor, Master Craftsmen, Incorporated. Westinghouse's quality assurance did not witness nondestructive testing of the welds but did review the subcontractors inspection and documentation.

Safety Implication

Had this condition remained uncorrected, the structural integrity of the seismic 1(L) supports to the tritiated and floor collector drain tanks would not have been jeopardized due to deficient welds. This condition could not have adversely affected the safe operation of the plant.

Corrective Action

The tritiated drain and floor drain collection tanks are nonsafety-classified equipment. The design of these units has no internal or external pressure. These tanks were manufactured to the ASME Code Section VIII, Division I requirements. The welds on the tritiated drain and floor drain collection tanks are suitable to perform their intended service without any additional rework. TVA's disposition of the subject NCR is to use as-is.

NCR YCN QAB 8101 was written to address the potential generic implications of TVA's failure to detect defective welds being released from vendor shops. TVA has evaluated the results of the inspection of equipment and material on approximately 200 contracts and major purchase orders. This inspection was to determine the cause or reason defective welds were not discovered by TVA source inspections. The results of this inspection and the potential generic implications to all TVA plants will be addressed in our final response on NCR YCN QAB 8101.