

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

March 28, 1983

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NRC REGION II
ADMIN. SEC.

WBRD-50-390/83-11
WBRD-50-391/83-10

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 NUCLEAR PLANT UNITS 1 AND 2 - FILLET WELDS REPLACING CONCRETE
ANCHORS ON PIPE SUPPORTS - WBRD-50-390/83-11, -391/83-10 - FIRST INTERIM
REPORT *1B*

The subject deficiency was initially reported to NRC-OIE Inspector
P. Fredrickson on March 2, 1983 in accordance with 10 CFR 50.55(e) as NCR WBN
SWP 8273. Enclosed is our first interim report. We expect to submit our next
report on or about September 9, 1983.

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, D.C. 20555

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ENCLOSURE
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
FILLET WELDS REPLACING CONCRETE ANCHORS ON PIPE SUPPORTS
NCR WBN SWP 8273
WBRD-50-390/83-11, WBRD-50-391/83-10
10 CFR 50.55(e)

FIRST INTERIM REPORT

Description of Deficiency

During an independent review of the auxiliary feedwater system performed by Black & Veatch and subsequent investigation of TVA's Division of Engineering Design into several Black & Veatch findings, it was discovered that on several pipe supports the use of fillet welds to replace concrete anchors was used per General Note 3 on TVA drawing 47A050-1T. In accordance with General Note 3, TVA's Division of Construction may substitute a 2-inch long, 5/16-inch fillet weld for each concrete anchor where supports attach to existing embedded plates. After investigation, it was discovered that the service load capacity of 1-1/4-inch diameter wedge bolts and anchors with equal or greater capacity exceeds the capacity of a 2-inch long, 5/16-inch fillet weld allowed by General Note 3.

Interim Progress

TVA has stopped the use of substitution of fillet welds for 1-inch diameter and larger anchor bolts. TVA is in the process of determining the corrective action for this deficiency.