

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

85 FEB 4 P12: 58 January 29, 1985

WBRD-50-390/84-44
WBRD-50-391/84-39

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - FAILURE OF AN ERCW SHAFT
WBRD-50-390/84-44 AND WBRD-50-391/84-39 - SUPPLEMENTAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector P. E. Fredrickson on August 29, 1984 in accordance with 10 CFR 50.55(e) as NCR W-195-P. This was followed by our interim report dated October 2, 1984 and our final report dated November 2, 1984. Below is our supplemental report. We consider 10 CFR Part 21 applicable to this deficiency.

Report Supplement

The date of January 2, 1985, for completion of corrective actions indicated in our final report on this matter was not met. The corrective actions specified in our final report called for the machining of the surfaces of the pump shafts to remove any pitting and modifying the sharp fillet which is present at the end of the shaft sections. While these actions are an acceptable solution to the problem, TVA's Office of Nuclear Power (NUC PR) has decided to implement a more conservative solution by ordering four new shafts for the pumps needed for unit 1 operation instead of remachining the existing ones. These shafts will not only have the sharp fillet modified but they will also be tempered at a higher temperature than the originals were in order to improve notch toughness. Also, the shaft ends will be plated with chromium to eliminate future pitting. These new shafts will be installed by March 1, 1985.

The shafts that have been removed from the four pumps needed for unit 1 will be repaired by TVA and installed in the four remaining pumps by August 1, 1985. The repair of these four shafts will include machining the shaft ends to eliminate pits and turning a radius in the sharp corner areas. These shafts will be heat treated and then chromium plated similar to the unit 1 shafts.

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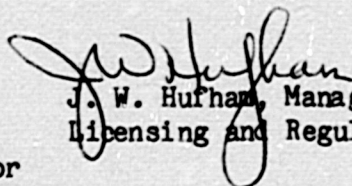
U.S. Nuclear Regulatory Commission

January 29, 1985

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
Licensing and Regulations

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

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Institute of Nuclear Power Operations
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