

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

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August 13, 1985

WBRD-50-390/84-29

WBRD-50-391/84-26

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:

**WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - INCREASED ENVIRONMENTAL TEMPERATURES
IN THE MAIN STEAM VALVE ROOMS - WBRD-50-390/84-29, WBRD-50-391/84-26 - SIXTH
INTERIM REPORT**

The subject deficiency was initially reported to NRC-OIE Inspector P. E. Fredrickson on May 22, 1984 in accordance with 10 CFR 50.55(e) as NCR WBN NEB 8403. Interim reports were submitted on July 21, August 17, and October 2, 1984 and March 7 and June 12, 1985. Below is our sixth interim report. We expect to submit our next report on or about December 15, 1985. We consider 10 CFR Part 21 applicable to this deficiency.

Interim Progress

TVA has completed preliminary evaluations of the Watts Bar Nuclear Plant (WBN) plant-specific main steam line break (MSLB) mass and energy blowdown data. The preliminary evaluations indicate that the peak temperature (530°F) is much higher, but with a much shorter duration, than originally estimated based on Catawba Nuclear Station data. As a result of the higher than expected temperatures, TVA has had to reexamine the effects of the valve vault MSLB and reevaluate the analyses that were based upon the Catawba data. To date, TVA has found that the scoping analyses for mass and energy release utilizing the Catawba data have bounded similar analyses using the WBN plant-specific data due to the much shorter duration of the high temperature segment in the WBN plant-specific MSLB.

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TVA will utilize the plant-specific analysis results to reevaluate compliance with the plant design basis. Upon completion of this reevaluation, TVA will provide further information on this issue.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



R. W. Hufham, Manager
Licensing and Risk Protection

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

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