



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

William J. Museler
Site Vice President, Watts Bar Nuclear Plant

MAR 11 1994

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of the Application of)	Docket Nos. 50-390
Tennessee Valley Authority)	50-391

WATTS BAR NUCLEAR PLANT (WBN) - TENSILE TEARS - PROBLEM EVALUATION REPORT -
WBPER940021 - INTERIM REPORT

In accordance with 10 CFR 50.55(e)(1)(ii), this interim report is being provided to notify the NRC of a condition involving the identification of tensile tears developing in the heat affected zone of dissimilar material support welds.

The subject deficiency was identified during the inspection of an attachment weld for a stainless steel friction anchor to a carbon steel member. Tensile tears developed in the carbon steel member after completing the weld. Preliminary evaluations indicate that these appear to be resulting from a combination of stainless steel shrinkage stresses and anomalies in the carbon steel member.

TVA's evaluation to determine the extent of this condition and complete the analysis is scheduled to be completed to support a substantial safety hazard evaluation for the subject deficiency by May 16, 1994. The NRC will be notified if the results of the analysis and extent of condition identify a substantial safety hazard as required by 10 CFR 50.55(e).

If you should have any questions, contact P. L. Pace at (615)-365-1824.

Very truly yours,

William J. Museler

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cc: NRC Resident Inspector
Watts Bar Nuclear Plant
Rt. 2, Box 700
Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager
U.S. Nuclear Regulatory Commission
One White Flint North
11555 Rockville Pike
Rockville, Maryland 20852

U.S. Nuclear Regulatory Commission
Region II
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323