

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

50-390

July 28, 1982

WBRD-50-390/82-74
WBRD-50-391/82-69

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NRC REGION II
ATLANTA, GEORGIA

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 - ALTERNATE ANALYSIS PROGRAM
BREAKDOWN - WBRD-50-390/82-74, WBRD-50-391/82-69 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector J. D. Wilcox on June 28, 1982 in accordance with 10 CFR 50.55(e) as NCR WBN SWP 8231. A subsequent telephone call on July 20, 1982 to Inspector D. Quick notified Region II that TVA had expanded this deficiency to a program breakdown. Enclosed is our first interim report. We expect to submit our next report on or about December 9, 1982.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kammer

for 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
ALTERNATE ANALYSIS PROGRAM BREAKDOWN
NCR WBN SWP 8231
WBRD-50-390/82-74, WBRD-50-391/82-69
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

As stated in our initial report on WBRD-50-390/82-57, WBRD-50-391/82-54 (NCR WBN SWP 8220), "Preparation of Alternate Analysis Calculation Packages and Documentation," TVA analysts did not comply with Watts Bar design criteria documents; and a design review team was formed to review and determine the methods used in performing analyses. During this review, TVA has found that the alternate analysis also fails to meet the requirements of an additional governing document, TVA report CEB-76-5, "Alternate Criteria for Piping Analysis Support," and that generic technical deficiencies exist in analyses such that:

1. Maximum seismic spans have been exceeded, particularly near elbows, tees, and valves.
2. Thermal and end-point evaluations are inadequate.
3. Axial supports are not specified as required.
4. Some load sources are not properly considered.

Interim Progress

Because of the additional deficiencies identified by the design review team, TVA has concluded that a significant breakdown in the Watts Bar alternate analysis program has occurred which will require a complete reverification of the alternate analyses performed for Watts Bar. TVA is also in the process of determining additional corrective action for Watts Bar and will supply additional information in a combined report which will include NCR WBN SWP 8220.