

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA TENNESSEE 37401

400 Chestnut Street Tower II

July 27, 1982

WBRD-50-390/81-07

WBRD-50-391/81-06

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:

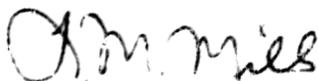
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - UNCONSERVATIVE LOADS ON PIPE
SUPPORT DESIGN MODIFICATIONS - WBRD-50-390/81-07, WBRD-50-391/81-06 -
FIFTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. W. Wright on December 17, 1980 in accordance with 10 CFR 50.56(e) as NCR
WBN CEB 8013. This was followed by our interim reports dated January 19,
March 2, April 1, and August 12, 1981. Enclosed is our fifth interim
report. We expect to provide additional information on or about June 15,
1983. This nonconformance was also reported for Sequoyah Nuclear Plant as
NCR SQN CEB 8039.

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, 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
UNCONSERVATIVE LOADS ON PIPE SUPPORT DESIGN MODIFICATIONS
NCR WBN CEP 8013
WBRD-50-390/81-07, WBRD-50-391/81-06
10 CFR 50.55(e)
FIFTH INTERIM REPORT

Description of Deficiency

Piping system analyses and support design for class 1, 2, and 3 systems inside containment were contracted out to EDS Nuclear, Incorporated. EDS tabulated design loads for the pipe supports on support drawings. EDS had design and revision responsibility for all piping reanalysis results which could have an impact on existing support designs. Load increases that resulted from piping reanalyses but did not require design modifications were not revised on the support drawings. Design control responsibility for all support drawings was subsequently turned over to TVA, and subsequent design modifications by TVA were based on the design loads tabulated on the drawings. Therefore, some design modifications by TVA may be based on unconservative loads. At the time of EDS's contract, TVA did not recognize that these load increases could have an adverse impact on subsequent support designs and, therefore, did not require that EDS tabulate these loads on the affected support drawings.

Interim Progress

TVA has reviewed the subject deficiency and determined that the design review for unit 1 and unit 2 will be completed December 31, 1982, and April 30, 1983, respectively. TVA will supply additional information upon completion of the design review.