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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

June 26, 1984

WBRD-50-391/82-27

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 2 - INCORRECT MODULUS OF ELASTICITY USED IN
PIPING ANALYSIS OF THE AUXILIARY FEEDWATER SYSTEM - WBRD-50-391/82-27 -
FOURTH INTERIM REPORT

The subject deficiency was initially reported to NRC-QIE Inspector
R. V. Crlenjak on March 30, 1982 in accordance with 10 CFR 50.55(e) as NCR
WBN CEB 8202. Interim reports were submitted on May 7, August 20, and
November 18 1982. Enclosed is our fourth interim report. We expect to
submit our next report on or by August 30, 1985.

If you have any questions, please get in touch with K. H. Shell at
FTS 858-2608.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kammer

for L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc (Enclosure):

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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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNIT 2
INCORRECT MODULUS OF ELASTICITY USED IN PIPING ANALYSIS
OF THE AUXILIARY FEEDWATER SYSTEM

NCR WBN CEB 8202

WBRD-50-391/82-27

10 CFR 50.55(e)

FOURTH INTERIM REPORT

Description of Deficiency

An incorrect modulus of elasticity value was used in the analysis of problem N3-3-15A for the 40°F temperature mode. The value that was chosen is low by a factor of 10 and may have produced unconservative stress levels.

The analysis error mentioned above was discovered during an analysis review.

Interim Progress

TVA has reanalyzed and reissued piping analysis problem N3-3-15A using the correct value for the modulus of elasticity. The new support loads will be reviewed to ensure existing support design adequacy. Support design modifications will be made as required. All work for this deficiency is being performed under engineering change notice (ECN) 3490.

TVA will provide more information on this item in our final report.