TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

May 7, 1982

WBRD-50-390/82-30
WBRD-50-391/82-27

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 - INCORRECT MODULUS OF ELASTICITY USED IN PIPING ANALYSIS OF THE AUXILIARY FEEDWATER SYSTEM - WBRD-50-390/82-30, WBRD-50-391/82-27 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on March 30, 1982 in accordance with 10 CFR 50.55(e) as NCR WBN CEB 8202. Enclosed is our first interim report. The submittal date of this report was discussed with Inspector D. Quick on May 3, 1982. We expect to submit our next report by August 23, 1982.

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 4DSK

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

ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
INCORRECT MODULUS OF ELASTICITY USED IN PIPING ANALYSIS
OF THE AUXILIARY FEEDWATER SYSTEM
NCR WBN CEB 8202
WBRD-50-390/82-30, WBRD-50-391/82-27
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

TVA has identified an error in the analysis performed by Gilbert/Commonwealth of Oak Ridge, Tennessee, for the Auxiliary Feedwater System. An incorrect modulus of elasticity value was used in the analysis of problem N3-3-15A for the 40-degree Fahrenheit temperature mode. The value for the modulus of elasticity 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 is in the process of renalyzing the Auxiliary Feedwater System to correct the subject deficiency.