

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

May 27, 1982

USNRC REGION II
ATLANTA, GEORGIA
82 JUN 2 8:34

WBRD-50-390/82-44
WBRD-50-391/82-41

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:

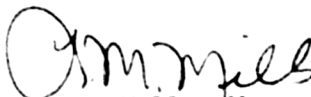
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - USE OF INCORRECT RESPONSE SPECTRA
IN GILBERT/Commonwealth PIPING ANALYSIS - WBRD-50-390/82-44,
WBRD-50-391/82-41 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
F. J. Long on April 26, 1982 in accordance with 10 CFR 50.55(e) as NCR
WBN CEB 8207. Enclosed is our first interim report. We expect to submit
our next report by October 18, 1982. TVA considers 10 CFR Part 21
applicable to this deficiency.

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
USE OF INCORRECT RESPONSE SPECTRA IN GILBERT/COMMONWEALTH PIPING ANALYSIS
NCR WBN CEB 8207
WBRD-50-390/82-44, WBRD-50-391/82-41
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

Incorrect response spectra was used for the X-Y operating basis earthquake dynamic level case for piping analysis 060200-09-05 by Gilbert/Commonwealth, Oak Ridge, Tennessee. Spectra for elevation 725.0 feet (No.202) in the east-west direction should have been used instead of spectra for elevation 715.0 feet (No. 201). The application of spectra 201 may result in unconservative pipe stresses and support loads. Also, the anchor movements at points 123 and 148 were input incorrectly based on data supplied by Westinghouse letters WAT-D-1778 and WAT-D-2948. Points 123 and 148 are boron injection piping connections to the reactor coolant loops inside containment.

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

Interim Progress

Problem 0600200-09-05 is currently being reanalyzed using the current east-west direction spectra for elevation 725.0 feet (No. 202). Proper anchor movements are also being incorporated.