

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

August 12, 1982

WBRO-50-390/82-77
WBRO-50-391/82-73

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 - FREQUENCY CRITERIA FOR PIPING
SUPPORTS - WBRO-50-390/82-77, WBRO-50-391/82-73 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on July 13, 1982 in accordance with 10 CFR 50.55(e) as NCR
WBRO SWP 8234. Enclosed is our first interim report. We expect to submit
our next report on or about October 4, 1982.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

James A. Damer
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
FREQUENCY CRITERIA FOR PIPING SUPPORTS
NCR WBN SWP 8234
WBRD-50-390/82-77, WBRD-50-391/82-73
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

During an investigation into a dissimilarity of information (concerning frequency criteria for piping supports) required frequency criteria for supports between section 3.9.3.4.2(ld) of the Watts Bar Nuclear Plant (WBN) Final Safety Analysis Report (FSAR) and section 8.2.3, figure 8.2-1 of design criteria WB-DC-40-31.9 (i.e., as amended by DIM-WB-DC-40-31.9-3, CEB 820226 009), the following discrepancies were identified:

1. Uncertainty as to which support types must meet a frequency criteria.
2. Use of a frequency of 20 Hertz in some situations, as specified in the design criteria, rather than 33 Hertz in the FSAR to represent the natural frequency of a fixed support.
3. The use of the total span of the pipe on each side of a support or one-half of that mass in determining the support's natural frequency.

Interim Progress

TVA is continuing to investigate this potential deficiency. More information will be provided in our next report.