

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

December 15, 1982

WBRD-50-390/82-16, WBRD-50-391/82-15
BLRD-50-438/82-11, BLRD-50-439/82-11
HTRD-50-518/82-06, HTRD-50-520/82-06
YCRD-50-566/82-05, YCRD-50-567/82-05

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 UNITS 1 AND 2, BELLEFONTE UNITS 1 AND 2, HARTSVILLE UNITS 1 AND 2, AND YELLOW CREEK UNITS 1 AND 2 NUCLEAR PLANTS - RESOLUTION OF UNANTICIPATED VIBRATORY LOADING CONCERNS - FOURTH INTERIM REPORT

The subject deficiency was initially reported to Inspector D. Quick on January 20, 1982 as NCR GEN CEs 8201. Interim reports were submitted on February 19, April 28, and September 24, 1982. We expect to submit our next report on or about March 22, 1983.

TVA has elected to defer construction activities on Yellow Creek and Hartsville. Deferral does not mean that the project will be cancelled but that TVA is minimizing its expenditures and construction efforts until such time that TVA has sufficient information to indicate whether the project should be completed or cancelled. Therefore, we will not be submitting further information on Yellow Creek or Hartsville until a final decision is made regarding these projects. Enclosed is our fourth interim report on Watts Bar and Bellefonte.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688 for PWRs and J. Damer at FTS 858-2725 for BWRs.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills

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, D.C. 20555

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ENCLOSURE

WATTS BAR UNITS 1 AND 2, BELLEFONTE UNITS 1 AND 2,
HARTSVILLE UNITS 1 AND 2, AND YELLOW CREEK UNITS 1 AND 2 NUCLEAR PLANTS
NCR GEN CEB 8201

WBRD-50-390/82-16, WBRD-50-391/82-15; BLRD-50-438/82-11, BLRD-50-439/82-11;
HTRD-50-518/82-06, HTRD-50-520/82-06; YCRD-50-566/82-05, YCRD-50-567/82-05

RESOLUTION OF UNANTICIPATED VIBRATORY LOADING CONCERNS

10 CFR 50.55(e)

FOURTH INTERIM REPORT

Description of Deficiency

TVA has identified a programmatic deficiency in detection and documentation of resolution of certain anchorage and support problems in fluid systems resulting from unanticipated vibratory loading occurring over an extended period of time. This type of loading could cause degradation or eventual failure of the anchorage. The program deficiency may occur only in systems or portions of systems which experience continuous or extended periods of vibrations greater than those considered in design. At present, emphasis in the vibration program is placed on qualifying piping and equipment to an established qualification level in defined modes of operation. It does not identify potential problems except where unacceptable piping and/or equipment vibration levels are recorded.

Interim Progress

TVA is continuing with the development of a program to ensure both that piping systems operate within their design parameters to avoid unexpected vibration and fluid transients and that proper acceptance criteria, corrective action, and documentation methods are adequately defined for identifying and correcting deficiencies which can result when systems do not operate within these design parameters. The program is developing in three phases. Phase one is the identification of line segments for surveillance based on experience, test results, and inspections. Phase two is the development of schedules and criteria for surveillance. Phase three is the establishment of procedures which will ensure that potential vibration problems are identified and tracked. At present, working groups have been established and limited surveillance has been initiated on vibration problems which are considered the most severe.