TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 1, 1983

WBRD-50-390/82-16, WBRD-50-391/82-15
BLRD-50-438/82-11, BLRD-50-439/82-11

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USNRC REGION II
ATLANTA, GEORGIA

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR AND BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - RESOLUTION OF UNANTICIPATED VIBRATORY LOADING CONCERNS - FIFTH INTERIM REPORT

The subject deficiency was initially reported to Inspector D. Quick on January 20, 1982 as NCR GEN CEB 8201. Interim reports were submitted on February 19, April 28, September 24, and December 15, 1982. Enclosed is our fifth interim report. We expect to submit our next report on or about June 22, 1983.

NRC-OIE Inspector L. Watson was notified on March 28, 1983 that this submittal would be several days late because of final review and coordination efforts.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. 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 AND BELLEFONTE NUCLEAR PLANTS UNITS 1 AND 2,
NCR GEN CEB 8201
WBRD-50-390/82-16, WBRD-50-391/82-15; BLRD-50-438/82-11, BLRD-50-439/82-11;
RESOLUTION OF UNANTICIPATED VIBRATORY LOADING CONCERNS
10 CFR 50.55(e)
FIFTH 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

Preoperational test scoping documents will be revised to require a review by vibration specialists to identify vibration problems which are potentially damaging to piping supports and anchorages. This is in addition to the piping vibration qualification limits which are defined in WB-DC-40-31.16 and N4-50-D729 for Watts Bar and Bellefonte Nuclear Plants, respectively. A problem which cannot be resolved will be identified as an open preoperational test deficiency. At such a time when these unresolved problems are identified appropriate measures will be taken to ensure support integrity. These measures will be performed either under the structure of existing programs or through the development and implementation of new procedures as appropriate. More information will be supplied in our next report.