

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

JUL 28 1989

WBRD-50-390/89-07

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

In the Matter of the Application of)
Tennessee Valley Authority)

Docket No. 50-390

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1 - SEISMIC RETENTION CLAMP BARS FOR
SAFETY-RELATED INSTRUMENT RACKS - WBRD-50-390/89-07 - INTERIM REPORT

The subject deficiency was initially reported to NRC Region II Inspector
Becky Johnson on June 28, 1989, in accordance with 10 CFR 50.55(e)
as Condition Adverse to Quality Report (CAQR) WBP 880636.

Enclosure 1 provides our interim report. Enclosure 2 provides the list of
commitments made in this report.

If there are any questions, please telephone G. R. Ashley at (615) 365-8527.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

WJ Ray Jr
Manager, Nuclear Licensing
and Regulatory Affairs

Enclosures
cc: See page 2

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U.S. Nuclear Regulatory Commission

JUL 28 1989

cc (Enclosures):

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ENCLOSURE 1

WATTS BAR NUCLEAR PLANT (WBN) UNIT 1
SEISMIC RETENTION CLAMP BARS FOR
SAFETY-RELATED INSTRUMENT RACKS
CONDITION ADVERSE TO QUALITY REPORT (CAQR) WBP 880636
WBRD-50-390/89-07
10 CFR 50.55(e)

INTERIM REPORT

DESCRIPTION OF DEFICIENCY

While performing the vertical slice review of WBN unit 1, a deficiency was identified with the installation of safety-related instruments. Discrepancy Reports (DRs) 95 and 430 identified two components, 1-LS-70-63A/B-A and 1-LS-70-63D-A, which lack clamp bars required for seismic retention. These components are safety-related and are representative of components located in the auxiliary instrument room racks 1-R-127, -128, -130, and -131; and auxiliary control room (ACR) racks 1-L-11A, and -11B. No clamp bars were installed in the auxiliary instrument room racks and were incorrectly installed in the ACR racks. It was determined that the installation of the clamp bars was a vendor design change to the racks that had not been properly implemented.

SAFETY IMPLICATIONS

Since seismic qualification of the instruments in these panels requires the clamp bars to be installed, their function during and after a seismic event cannot be assured. TVA has determined that failure of the instruments could jeopardize the safe operation of the plant.

CORRECTIVE ACTION

The root cause of this deficiency was inadequate design output (procedures and drawings) to bring about the installation of the required seismic retention clamp bars. At the time the deficiency occurred there was not a procedural requirement to initiate a change control document for vendor-initiated changes on approved vendor drawings during contract development, even though the changes required physical construction modifications.

Design Change Notice (DCN) No. C03053-A has been issued to provide design output that will assure proper installation of the clamp bars. The clamp bars will be installed before fuel load of unit 1.

TVA has not completed the investigation to determine the extent of this condition. A final report for this deficiency will be provided by September 15, 1989.

Controls are now in place to prevent recurrence of this deficiency. For vendor-initiated changes to vendor drawings, Watts Bar Engineering Procedure (WBEP)-5.14, revision 0, section 4.5.2, requires that "the CE [contract engineer - WBN] shall initiate a change document and attach the proposed vendor drawing revision." WBEP-5.25, revision 0, section 2.1, requires that "changes are not incorporated into the as-constructed drawing until field work is completed and verified."

ENCLOSURE 2

LIST OF COMMITMENTS

1. The clamp bars will be installed before fuel load of unit 1.
2. A final report for this deficiency will be provided by September 15, 1989.