

TENNESSEE VALLEY AUTHORITY

5N 105B Lookout Place

January 24, 1986

WBRD-50-390/86-14

U.S. Nuclear Regulatory Commission  
Region II  
Attention: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Dear Dr. Grace:

WATTS BAR NUCLEAR PLANT UNIT 1 - DISCREPANCIES INVOLVING QUALITY ASSURANCE  
CONDUIT SUPPORTS - EMPLOYEE CONCERNS IN-85-45B-006 AND IN-85-119-006  
WBRD-50-390/86-14 - INTERIM REPORT

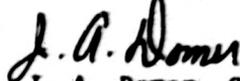
The subject deficiency was initially reported to NRC-OIE Inspector Steve Weise on December 9, 1985 in accordance with 10 CFR 50.55(e) as NCR WBN 6463. Enclosed is our interim report. We expect to submit our next report on or about February 14, 1986.

Delay in submittal of this report was discussed with Al Ignatonis on January 6, 1986 and with Bob Carroll on January 21, 1986.

If there are any questions, please get in touch with R. H. Shell at PTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. A. Domer, Chief  
Nuclear Licensing Branch

Enclosure

cc: Mr. James Taylor, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
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**ENCLOSURE**  
**WATTS BAR NUCLEAR PLANT UNIT 1**  
**DISCREPANCIES INVOLVING QUALITY ASSURANCE CONDUIT SUPPORTS**  
**EMPLOYEE CONCERNS IN-85-458-006 AND IN-85-119-006**  
**WBRD-50-390/86-14**  
**NCR WBN 6463**  
**10 CFR 50.55(e)**  
**INTERIM REPORT**

A physical walkdown and reinspection of selected conduit supports was requested by investigators of the Quality Technology Corporation's (QTC) Employee Response Team as the result of the employee concerns referenced. The inspection, performed on the auxiliary and reactor building conduit and cable trays, revealed several discrepancies involving safety-related supports. The discrepancies noted in this deficiency have been compiled into groups A through E. (See attachment for grouping of specific discrepancies.)

The description of this deficiency will be divided into two parts.

Part A - Documentation discrepancies which include the following groups:

Group B - The items listed in this group have not been tagged with their identifying numbers; however, supports were located from the design drawings.

Group C - Each item listed in this group has been documented as a different type of typical support than that which was installed.

Group E - The items listed in this group are still documented in a computer printout but cannot be located in the plant.

Part B - Specific deficiencies identified by this nonconformance report (NCR):

Group A - The items listed in this group are installed supports which deviate from the issued drawing and do not have approved field change requests (FCRs) and/or variances. Therefore, these supports have unknown/undocumented structural capacity or factors of safety.

Group D - The items listed in this group have specific miscellaneous problems. Discrepancies are noted on attachment.

The above-listed items were identified by the inspector during the walkdown. The root causes of these discrepancies are yet to be determined.

Safety Implications

Various supports listed in Part B have unknown or undocumented structural capacity or factors of safety. Worst-case loadings on supports could result in concrete anchorage failure and subsequent failure of the conduits. Cables within these conduits could be damaged, thus rendering safety-related systems inoperable. These conditions could adversely affect the safe operations of the plant due to the inability of systems, components, or structures to perform their intended design functions.

Interim Progress

TVA is in the process of investigating the discrepancies noted in this nonconformance. The results of this investigation will be provided to the NRC in our next report on or about February 14, 1986.

ATTACHMENT

- Group A 1-CSP-293-3243/5 (also D)  
0-CSP-292-3944/9  
0-CSP-292-3944/3 (also D)  
0-CSP-292-3928/5 (also C & D)  
0-CSP-292-3545/3 (also D)  
0-CSP-292-3051/1 (also D)  
0-CSP-292-3972/1  
0-CSP-292-3767/Z (also D)  
0-CSP-292-3550/3  
1-JB-292-2668 (also B)  
0-CSP-292-3736/2  
0-CSP-292-3360/1
- Group B 0-CSP-292-3935/9 (also D)  
0-CSP-292-3932/0  
0-JB-292-1547-A (also C)  
1-JB-292-3241  
1-JB-292-2668 (also A)  
1-JB-292-5370  
1-JB-293-305-G  
1-JB-293-585  
1-JB-293-798  
1-JB-293-598  
1-JB-293-522-A  
1-JB-293-1003  
1-JB-293-3131 (also D)
- Group C 1-CSP-293-3174/X  
0-CSP-292-3922/7  
0-CSP-292-3928/5 (also D)  
0-JB-293-1547-A (also B)
- Group D 1-CSP-293-0329/X - Two hole strap loose on support.  
1-CSP-293-3243/8 - Anchor needs grouting.  
1-CSP-293-3243/5 - Bolt protruding and two hole straps overlap each other (also A).  
0-CSP-292-3930/2 - Box is a 47A056-114 typical with abandoned anchors. Anchors drilled inside box as a 47A056-101 typical.  
0-CSP-292-3456/8 - Weld oversized.  
0-CSP-292-3456/9 - Weld oversized.  
0-CSP-292-3935/9 - Insufficient welds; support below this support not identified, two hole straps overlap each other and "make do" hole drilled (also B).  
0-CSP-292-3944/3 - Anchor hole needs grouting (also A).  
0-CSP-292-3928/5 - Anchor hole needs grouting; support identified with two tags (also A & C).  
0-CSP-292-3767/Z - This support carries a 6" conduit; 47A056-55 typical does not allow anything over 5" conduit.  
1-JB-292-132B - Holes reamed out in junction box (JB) cover and screwed in at an angle.

Group CS-AB-1541/4 - Anchor needs grouting.  
D 0-CSP-292-3545/3 - Weld splatter.  
(cont) 0-CSP-292-3887/4 - Anchor needs grouting.  
1-JB-293-3131 - Missing bolt, loose bolt, unacceptable bolt (also  
B).  
0-CSP-292-3051/1 - Loose two hole straps.

First support from 1-JB-293-1003 on conduit 1R-2062, 47A056-66  
typical not identified.

First support from 1-JB-293-522-A on conduit 1-VO-1215-A and 1-VC-  
1220-A not identified.

Group 0-CSP-292-3915/9  
E 0-CSP-292-3941/0  
0-CSP-292-3944/5  
0-CSP-292-3693/1