



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

JUL 10 1991

WBRD-50-390/91-19  
WBRD-50-391/91-19

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 ) Docket Nos. 50-390  
Tennessee Valley Authority ) 50-391

WATTS BAR NUCLEAR PLANT (WBN) UNITS 1 AND 2 - VENDOR QUALITY ASSURANCE  
PROGRAM FOR CLASS 1E CABLE - PROBLEM EVALUATION REPORT WBPEN 910187,  
REVISION 0 - WBRD-50-390/91-19 AND WBRD-50-391/91-19 - SECOND INTERIM  
REPORT

The subject deficiency was initially reported to NRC Region II on  
April 17, 1991, in accordance with 10 CFR 50.55(e) as Problem Evaluation  
Report (PER) WBPEN 910187. The first interim report was submitted on  
May 16, 1991. Enclosure 1 is TVA's second interim report on this  
subject. Enclosure 2 provides a list of commitments made in this letter.

If there are any questions, please telephone P. L. Pace at (615) 365-1824.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*Mark G. Bergquist*  
E. G. Wallace, Manager  
Nuclear Licensing and  
Regulatory Affairs

Enclosures

cc: See page 2

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U.S. Nuclear Regulatory Commission

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cc (Enclosures):

Ms. S. C. Black, Deputy Director  
Project Directorate II-4  
U.S. Nuclear Regulatory Commission  
One White Flint, North  
11555 Rockville Pike  
Rockville, Maryland 20852

NRC Resident Inspector  
Watts Bar Nuclear Plant  
P.O. Box 700  
Spring City, Tennessee 37381

Mr. P. S. Tam, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
One White Flint, North  
11555 Rockville Pike  
Rockville, Maryland 20852

Mr. B. A. Wilson, Project Chief  
U.S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

ENCLOSURE 1  
WATTS BAR NUCLEAR PLANT (WBN)  
VENDOR QUALITY ASSURANCE PROGRAM FOR CLASS 1E CABLE  
PROBLEM EVALUATION REPORT WBPBR 910187 REVISION 0  
WBRD-50-390, 391/91-19  
SECOND INTERIM REPORT

DESCRIPTION OF CONDITION

Class 1E electrical cables purchased from a TVA-approved supplier do not comply with contract requirements pertaining to material traceability, quality assurance records, and procurement.

While performing an audit at a TVA supplier's manufacturing facility concerning production records for safety-related electrical cables, TVA's audit team discovered that all required quality assurance records were not available for review. More specifically, the manufacturer's production records were not provided with sufficient documentation to ensure cables supplied under two TVA contracts for Class 1E equipment were manufactured in accordance with the vendor's TVA-approved quality assurance program. In some instances, items were supplied from stock and no dedication records were submitted. One production file did not include production records. Also, the submitted documentation was insufficient to allow the audit team to verify cable production footage against footage supplied under the contracts.

These deficiencies were discovered for Class 1E cables purchased from Teledyne Thermatics under TVA Contract Nos. 89NLB-75267A and 90NLC-75670A-03. Further evaluation is needed to determine the adequacy of any installed cables purchased under these contracts.

SAFETY IMPLICATIONS

These cables were purchased for use in Class 1E mild environmental applications. Since these cables are routed in only mild environments, it is expected that operability of the end device would not be jeopardized. Further, it is anticipated that the cable manufacturer will be able to provide the required quality documentation at a later date. However, in the absence of quality documentation, these cables are considered inadequate for Class 1E mild applications. Therefore, this condition could potentially have adversely affected the safe operation of the plant had it remained uncorrected.

CORRECTIVE ACTION

A follow-up audit was conducted by TVA in an attempt to establish acceptability of the wire and cable supplied by Teledyne Thermatics. Results of this audit revealed insufficient documentation to verify the adequacy of the cable previously found deficient. In response to this finding, Teledyne Thermatics has agreed to perform additional testing to show that the material complies with the original contract specifications. Hold tags have been placed on warehoused cable supplied under the mentioned contracts until this issue is resolved.

It is anticipated that these tests will demonstrate the adequacy of cable supplied to WBN. A complete report detailing test results and a schedule for completion of remaining work will be submitted to NRC by December 30, 1991.

ENCLOSURE 2

LIST OF COMMITMENTS

1. A complete report detailing test results and a schedule for completion of remaining work will be submitted to NRC by December 30, 1991.