

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5W 157B Lookout Place

December 30, 1985

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WBRD-50-390/85-63

WBRD-50-391/85-59

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 UNITS 1 AND 2 - FAILURE TO INSPECT INSTALLED CABLES FOR BEND RADIUS - WBRD-50-390/85-63, WBRD-50-391/85-59 - INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Al Ignatonis on November 15, 1985 in accordance with 10 CFR 50.55(e) as NCR W-290-P. Enclosed is our interim report. We expect to submit our next report on or about January 22, 1986. We consider 10 CFR Part 21 applicable to this deficiency.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. W. Hufham

Manager of Licensing

Enclosure

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

Records Center (Enclosure)
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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
FAILURE TO INSPECT INSTALLED CABLES FOR BEND RADIUS
WBRD-50-390/85-63 AND WBRD-50-391/85-59
NCR W-290-P
10 CFR 50.55(e)
INTERIM REPORT

Description of Deficiency

A deficiency has been identified at Watts Bar Nuclear Plant (WBN) in which electrical cables, which were terminated using maintenance administrative instructions MAI-4 and MAI-5, were not inspected for minimum cable bend radius at equipment terminations. This is because MAI-4 and MAI-5 did not contain inspection requirements for cable bend radius. However, TVA electrical design standard DS-E12.1.5, paragraph 3.0, requires cable bend radius inspection at cable termination points.

Safety Implications

Exceeding the minimum bend radius for installed class 1E cables could possibly result in damaged cable insulation or a degraded life expectancy for affected cables. The failure to inspect installed cables for minimum bend radius violations could possibly result in damaged cables remaining installed. This could possibly result in an electrical short circuit and, subsequently, a loss of our spurious actuation of affected safety-related equipment. Thus, the subject condition potentially could adversely affect the safe operation of the plant.

Interim Progress

MAI-4 and MAI-5 will be revised to include the inspection for bend radius at terminations by January 22, 1986, to prevent recurrence of this problem. TVA is still in the process of evaluating the subject deficiency as part of a generic evaluation addressing several related cable installation deficiencies including cable bend radius considerations. Our next report on this item will be provided to the NRC on or about January 22, 1986.