

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

5N 157B Lookout Place

JAN 22 1990

WBRD-50-390/89-12

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 - 10 CFR 50.49 CABLES LOCATED BELOW
FLOOD LEVEL ARE NOT QUALIFIED - WBRD-50-390/89-12 - INTERIM REPORT

The subject deficiency was initially reported to NRC Inspector Ken Barr on December 22, 1989, in accordance with 10 CFR 50.55(e) as Condition Adverse to Quality Report (CAQR) WBP 890421.

Enclosure 1 contains our interim report. Enclosure 2 identifies commitments contained in this submittal.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

NR Ray
Manager, Nuclear Licensing
and Regulatory Affairs

Enclosures
cc: See page 2

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U.S. Nuclear Regulatory Commission

JAN 22 1990

cc (Enclosures):

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ENCLOSURE 1

WATTS BAR NUCLEAR PLANT UNIT 1
10 CFR 50.49 CABLES ROUTED BELOW FLOOD LEVEL
CAQR WBP 890421
WBRD 50-390/89-12
10 CFR 50.55(e)

INTERIM REPORT

DESCRIPTION OF DEFICIENCY

Quality Information Release (QIR) WBN EEB 86037 was generated to identify a list of Class 1E cables that were subject to submergence. This list was used by the Watts Bar Environmental Qualification Project to identify conduits and cables required to be environmentally qualified under 10 CFR 50.49. Discrepancies have been discovered between the QIR and the as-installed configuration for several 50.49 cables in the main steam vault rooms. Specifically, the cables, as installed, are below flood level but have not been qualified for submergence. Some of the cables were not shown on the QIR, and as-installed configuration of the others does not agree with the information shown on the QIR. Consequently, the affected cables have not been environmentally qualified for their installed configuration.

SAFETY IMPLICATIONS

Because of nonexistence of qualification of the cables, failure of the affected cables due to the subject conditions could possibly result in the failure of associated safety-related components or devices to perform their safety-related functions. This could result in the inability to mitigate the effects of an accident or to achieve and maintain a safe shutdown.

CORRECTIVE ACTION

TVA will investigate the possibility of analysis and testing cable types used in 10 CFR 50.49 applications for submergence.

A final report will be submitted March 1, 1990, detailing further corrective actions and actions to prevent recurrence.

ENCLOSURE 2

LIST OF COMMITMENTS

TVA will investigate the possibility of analysis and testing cable types used in 10 CFR 50.49 applications for submergence.

A final report will be submitted March 1, 1990, detailing further corrective actions and actions to prevent recurrence.