

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
5N 157B Lookout Place

January 28, 1986

WBRD-50-390/86-18

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:

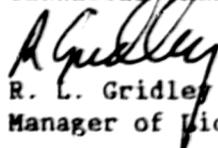
WATTS BAR NUCLEAR PLANT UNIT 1 - INTERNAL WIRING VERIFICATION ON MODIFIED
LOCAL INSTRUMENT PANELS - WBRD-50-390/86-18 - INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
Art Johnson on December 23, 1985 in accordance with 10 CFR 50.55(e) as NCR WBN
6433. Enclosed is our interim report. We expect to submit our next report on
or about March 21, 1986.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY


R. L. Gridley
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)
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE
WATTS BAR NUCLEAR PLANT UNIT 1
INTERNAL WIRING VERIFICATION ON MODIFIED LOCAL INSTRUMENT PANELS
WBRD-50-390/86-18
NCR WBN 6433
10 CFR 50.55(e)
INTERIM REPORT

Description of Deficiency

Field-mounted instruments on local panels which have been modified onsite reflect no evidence of required internal wiring verification. Instruments received onsite by the vendor are not required to have an initial wire check. However, when the instruments are modified, wiring on the floor-mounted local panels needs to be field verified per Watts Bar Nuclear Plant (WBN) Quality Control Procedure (QCP) 3.06-2 to assure that wire continuity exists and that the appropriate wire size qualified for the environment has been utilized. The apparent cause of this deficiency is an oversight on the part of the responsible engineers for assuring the internal wiring verification was encoded into the construction accountability program.

Safety Implications

Nonqualified wiring or faulty wiring installed on the local panels could fail causing the involved safety-related instrument loops to become open, shorted, or inaccurate. This deficiency could result in the failure of instruments to perform their intended design functions, consequently resulting in a condition which could adversely affect the safe operations of the plant.

Interim Progress

TVA is still in the process of evaluating the scope of the subject deficiency to determine what wiring corrections, if any, are required. In order to prevent recurrence, TVA's Office of Construction (OC) has completed a retraining program for the engineering personnel in QCP 3.06-2. Retraining of craft personnel in this procedure will also be accomplished by January 31, 1986. Our next report on this item will be provided to the NRC on or about March 21, 1986.