TENNESSEE VALLEY AUTHORITY
CHATTANOOGA. TENNESSEE 37401
1630 Chestnut Street Tower II
July 29, 1985
WBRD-50-390/85-21
WBRD-50-391/85-20
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 - ENVIRONMENTAL QUALIFICATION OF UNIT 2 EQUIPMENT NEEDED FOR UNIT 1 OPERATION - WBRD-50-390/85-21, WBRD-50-391/85-20 FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Al Ignatonis on July 15, 1985 in accordance with 10 CPR $50.55(\mathrm{e})$ as NCR WBN EEB 8521. Enclosed is our final report.

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

Very truly yours,
TENNESSEE VALLEY AUTHORITY
8. A. Nomen
pro. W. Hut ham, Manager
Licensing and Risk Protection

## 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

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
ENVIRONMENTAL QUALIFICATION OF UNIT 2 EQUIPMENT NEEDED FOR UNIT 1 OPERATION
WBRD-50-390/85-21, WBRD-50-391/85-20
NCR WBN EEB 8521
10 CFR 50.55(e) -
FINAL REPORT -

## Description of Deficiency

During an environmental qualification program review of unit ? equipment, TVA determined that while 53 electrical components (see Table 1) designated for unit 2 could have an effect on unit 1 operation, assurance of their environmental qualification was not being pursued to support the unit 1 operational schedule. As such, had this condition remained uncorrected, there could have been components required for unit 1 operation that were not qualified for the interim period of time between unit 1 and unit 2 operation.

This condition occurred because TVA failed to identify the unit ? equipment required to safely shutdown unit 1 on the list of components developed under the Watts Bar Nuclear Plant (WBN) Environmental Qualification Program. The components were identified by the program but were not specified as reguired for unit 1 operation.

## Safety Implications

Because certain unit 2 components have been identified as required for the safe shutdown of unit 1, their failure due to a lack of environmental qualification could have adversely affected safe unit 1 shutdown during certain types of design basis events.

## Corrective Action

Table 1 lists the unit 2 equipment required for unit 1 operation and the qualification status or corrective action needed for each component to assure that the components will not adversely affect unit 1 operation. Any actions called for, such as replacement or locking valves in position, has been completed. Since the unit 2 devices affecting unit 1 have been identified and any needed corrections completed, no additional action is required to prevent a recurrence.

Device
2-FCO-30-22/ZS 1
2-FCO-30-22/ZS2
2-FCO-30-22
2-FCO-30-109/ZS 1
2-FCO-30-109/ZS2
2-FCO-30-109
2-TS-30-155
2-FSV-30-157B
2-HS-30-157B
2-FE-30-194
2-HS-30-194
2-TS-30-194A
2-TS-30-194B
2-FE-30-195
2-HS-30-195
2-TS-30-195A
2-TS-30-195B
2-FS-30-200
2-HS-30-200
2-TS-30-200A
2-TS-30-200B
2-FS-30-207
2-HS-30-207
2-TS-30-207A
2-TS-30-207B
2-MTR-30-194
2-MTR-30-195
2-MTR-30-200
2-MTR-30-207
2-MTR-30-157A
2-FSV-67-336
2-FSV-67-338
2-FSV-67-354
2-FSV-67-356
2-HS-70-51B
2-FCV-67-146
2-HS-67-146B
2-FSV-65-4
2-FSV-65-5
2-FSV-65-7
2-FSV-65-9
2-FSV-65-29
2-FSV-65-50
2-FCV-67-127
2-FCV-67-128
2-FCV-67-147
2-FCV-67-81
2-FCV-67-82
2-FCV-67-223
2-FS-30-157
2-PX-67-158
2-TCV-67-158
2-PT-67-158

## Evaluation and Corrective Action

Essentially mild, no corrective action required
Essentially mild, no corrective action required
Essentially mild, no corrective action required
Essentially mild, no corrective action required
Essentially mild, no corrective action required
Essentially mild, no corrective action required
Qualified, no corrective action required
Qualified, no corrective action required
Qualified, no corrective action required
Replaced under engineering change notice (ECN) 3800
Qualified, no co -tive action required
Replaced under $E \rightarrow 163$
Eliminated from design circuit; never installed
Replaced under ECN 3800
Qualified, no corrective action required
Replaced under ECN 4063
Eliminated from design circuit; never installed
Removed under ECN 5704
Qualified, no corrective action required
Replaced under ECN 5704
Eliminated from design circuit; never installed
Removed under ECN 5704
Qualified, no corrective action required
Replaced under ECN 5704
Eliminated from design circuit; never installed
Replaced under ECN 4126
Replaced under ECN 4126
Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Qualified, no corrective action required Functionally removed from system
Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Locked in position, required for safe unit 1 operation Essentially mild, no corrective action required Essentially mild, no corrective action required Essentially mild, no corrective action required
Essentially mild, no corrective action required

