

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
5N 157B Lookout Place

May 20, 1986 11:00

WBRD-50-390/86-49
WBRD-50-391/86-46

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:

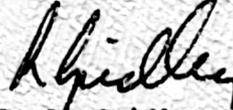
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - DISCREPANCIES AFFECTING SHIELD
BUILDING EXHAUST VENT RADIATION MONITOR - WBRD-50-390/86-49, WBRD-50-391/86-46
- INTERIM REPORT

The subject deficiency was initially reported to NRC-Region II Inspector
Gordon Hunegs on April 21, 1986 in accordance with 10 CFR 50.55(e) as NCR WBN
6750 for unit 2. NCR W-390-P documents the deficiency for unit 1. Enclosed
is our interim report. We expect to submit our next report on or about
September 19, 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



R. U. Gridley, Director
Nuclear Safety and 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
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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
DISCREPANCIES AFFECTING SHIELD BUILDING EXHAUST VENT RADIATION MONITOR
WBRD-50-390/86-49, WBRD-50-391/86-46
NCRs WBN 6750 AND W-390-P
10 CFR 50.55(e)
INTERIM REPORT

Description of Deficiency

Deficiencies have been identified at Watts Bar Nuclear Plant (WBN), as documented in nonconforming condition reports (NCRs) WBN 6750 and W-390-P, which involve components of the isokinetic sampling system supplied to TVA by the Air Monitor Corporation, Santa Rosa, California. The components were supplied on TVA procurement contract No. 80KJ2-826848. NCR W-390-P identifies various hardware discrepancies which result in the inability of TVA to maintain and operate the sampling systems properly. As such, the requirements of proposed WBN Technical Specification 3/4.11.2, proposed WBN Technical Specification Surveillance Requirement 4.3.39 and Regulatory Guide 1.97 cannot be met. NCR WBN 6750 states that for the instruments located on panel 2-PNL-90-L398, which are associated with the WBN unit 2 shield building exhaust vent radiation monitor, the TVA 91QL90 series drawing (Q-list) specifies seismic category I(L). However, Regulatory Guide 1.97, which is referenced in the comment section, calls for these components to be class 1E. The procurement contract for these devices does not specify class 1E. However, it does specify the devices to be seismic category 1 and states that 10 CFR 21 does apply.

There is inadequate information specified in the vendor's operation and maintenance (O&M) manual for TVA to identify the equipment required to be onsite or to perform necessary modifications or maintenance on the affected equipment. The instructions, specifications, and drawings which are in the vendor's O&M manual do not match the as-installed configuration of the instruments onsite. Also, the vendor has given verbal instructions for modifications, which are not covered by the O&M manual, to be made on several instruments.

Safety Implications

The subject equipment is used to provide samples for monitoring radioactive releases. These deficiencies render the status of the instruments indeterminate with regard to instrument quality and quality assurance requirements and with regard to the ability of the instruments to perform their intended design function. The inability to detect and/or monitor releases could result in a failure to take appropriate actions, such as notifications. This could possibly result in doses in excess of 10 CFR 20 and/or 10 CFR 100 limits. As such, the subject condition could adversely affect the safe operation of the plant.

Interim Progress

TVA is in the process of evaluating this condition to determine the quality of the affected equipment and the appropriate quality assurance requirements for meeting Regulatory Guide 1.97 requirements at WBN.

TVA will provide the next report on this item to NRC on or about September 19, 1986.