

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

April 13, 1983

WBRD-50-390/82-27

WBRD-50-391/82-24

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - FIRE PROTECTION SYSTEM SUPPORT
DETAIL DISCREPANCIES - WBRD-50-390/82-27, WBRD-50-391/82-24 - FOURTH
INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on March 2, 1982 in accordance with 10 CFR 50.55(e) as NCR
WBN SWP 8204. Interim reports were submitted on March 31, and
September 22, 1982, and January 13, 1983. Enclosed is our fourth interim
report. We expect to submit our next report on or about August 22, 1983.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, 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 UNITS 1 AND 2
FIRE PROTECTION SYSTEM SUPPORT DETAIL DISCREPANCIES
NCR WBN SWP 8204
WBRD-50-390/82-27, WBRD-50-391/82-24
10 CFR 50.55(e)
FOURTH INTERIM REPORT

Description of Deficiency

On the Fire Protection System drawing series 47A491 and 47A492, TVA has identified the following discrepancies in the support detail drawings:

1. The installation locations of washers called for in the bill of material to be used with the unistrut clamps are not specified on the support detail nor is the term "unistrut assembly," defined on the bill of materials as to its components.
2. While support drawings specify three directional loads, in some instances washers have been located under unistrut clamps eliminating the axial restraint, and in other areas U-bolts, which should be used for tension loads only, are being used for these three directional loads.
3. Lugs are missing on vertical pipe requiring an axial restraint for the "+y" direction (or uploading) on the pipe.

The apparent cause of these discrepancies is inadvertent detail errors by TVA designers.

Interim Progress

TVA has taken the following action to correct the deficiencies identified on the subject NCR:

1. Individual support detail drawings with discrepancies are being reviewed and revised to correct detail discrepancies. Presently, 20 such drawings have been revised and issued.
2. A comprehensive review program of all alternate analysis performed on Watts Bar Nuclear Plant piping has been undertaken. This work, being reported under NCR WBN SWP 8160, et al, (WBRD-50-390/82-02, -391/82-02, et al) is inclusive of all systems except fire protection. The review of the entire support scheme for the fire protection system has revealed 40 alternate analysis problems as part of the work effort under the subject NCR. Five of these alternate analysis problems have been completed and work on the remaining problems is continuing.
3. New support detail drawings are being issued when identified as required in item 2 above.

All of this work effort is being accomplished under (ECN) 3364.