TENNESSEE VALLEY AUTHORITY
CHATTANOOGA TENNESSEE 37401
400 Chestnut Street Tower II

February 1, 1983

WBRD-50-390/81-23
WBRD-50-391/81-22

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USNRC REGION II

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, Suite 3100
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - DISCREPANCY IN AS-BUILT VERSUS AS-ANALYZED PIPING SYSTEMS - WBRD-50-390/81-23, WBRD-50-391/81-22 - FOURTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on February 26, 1981 in accordance with 10 CFR 50.55(e) as NCR WBN SWP 8108. Our first interim report was submitted on March 30, 1981. NCR WBN SWP 8148 was reported to NRC-OIE Inspector Crlenjak on April 29, 1981. Mr. Crlenjak was informed that NCR WBN SWP 8148 would be reported with NCR WBN SWP 8108 as WBRD-50-390/81-23 and WBRD-50-391/81-22. Our second interim report, covering both of these NCRs, was submitted on August 26, 1981. NCR 3730R R1 was reported to Inspector R. V. Crlenjak on October 30, 1981. Mr. Crlenjak was informed that NCR 3730R R1 would be reported with NCRs WBN SWP 8108 and WBN SWP 8148 as WBRD-50-390/81-23 and WBRD-50-391/81-22. Our third interim report, covering these NCRs was submitted on May 20, 1982. Enclosed is our fourth interim report. We expect to provide additional information by July 1, 1983.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
DISCREPANCIES IN AS-BUILT VERSUS AS-ANALYZED PIPING SYSTEMS
10 CFR 50.55(e)
NCRs WBN SWP 8108, WBN SWP 8148, AND 3730R R1
WBRD-50-390/81-23, WBRD-50-391/81-22
FOURTH INTERIM REPORT

Description of Deficiency

During the evolution of the pipe support design effort, inconsistencies have developed between the support locations as specified on the support drawings and the analysis isometrics. The support drawings are used for installation and during the field inspection process the isometrics are referred to for the support node locations. Construction Specification G-43 allows an acceptable relocation tolerance from the analyzed point; however, some support drawings specify locations outside this tolerance. These discrepancies were caused by a failure to revise the isometric drawings when field changes were made.

Additionally, during the support design phase, the designer may have used part of the G-43 relocation tolerance. TVA's Division of Engineering Design (EN DES) employees have erroneously informed TVA's Division of Construction (CONST) they could apply the full G-43 tolerance to the location shown on the support drawing, thus the support could also be installed outside of the relocation tolerance because of this error.

Interim Progress

TVA has completed the review and drawing revisions for unit 1 and the common areas of the plant and is proceeding with the disposition outlined in our third interim report for the unit 2 supports.