TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

USNRC REGION II
ATLANTA, GEORGIA

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November 9, 1981

WBRD-50-390/81-87
WBRD-50-391/81-81

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U.S. NUCLEAR REGULATORY COMMISSION

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - LOCATING CCS BOOSTER PUMPS BELOW FLOOD ELEVATION - WBRD-50-390/81-87, WBRD-50-391/81-81 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on October 9, 1981 in accordance with 10 CFR 50.55(e) as NCR WBN SWP 8157. Enclosed is our first interim report. We expect to submit our next report by February 2, 1982.

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

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure
cc: Mr. Victor Stello, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
LOCATING CCS BOOSTER PUMPS BELOW FLOOD ELEVATION
WBRD-50-390/81-87, WBRD-50-391/81-81
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

The design of the component cooling system (CCS) reactor coolant pump thermal barrier booster pumps was based on a maximum possible flood elevation of 737.5 ft as stated in the WBNP PSAR Appendix 2.7A. Subsequent revisions to the calculations for determining the maximum possible flood increased this elevation from 737.5 ft to 738.6 ft as indicated in the WBNP FSAR Section 2.4.14.1.

The employees responsible for the design and review of the CCS were not aware of this change in the flood elevation and therefore did not incorporate this change into the system design. There was no design criteria documentation available by which the revised information could be readily transmitted to the employees responsible for the system design.

Interim Progress

The CCS thermal barrier booster pump pedestal designs have been redesigned to raise the pumps above the maximum possible flood elevation at WBNP.

We are still evaluating corrective actions to prevent recurrence of this type of nonconformance.