TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 4, 1983

WBRD-50-390/81-26
WBRD-50-391/81-25

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 - RETRIEVABLE INFORMATION USED IN PIPING ANALYSIS - WBRD-50-390/81-26 AND WBRD-50-391/81-25 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on March 16, 1981 in accordance with 10 CFR 50.55(e) as NCR WBN CEB 8104. Interim reports were submitted on April 10, June 11, and September 14, 1981; February 1, March 16, and August 5, 1982; and January 20, and May 11, 1983. 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

DS Kammer

for L. M. Mills, Manager
Nuclear Licensing

Enclosure
cc (Enclosure):
Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center
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
RETRIEVABLE VALVE INFORMATION USED IN PIPING ANALYSIS
NCR WBN CEB 8104
WBRD-50-390/81-26 AND WBRD-50-391/81-25
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

Manufacturer's valve drawings which include pertinent engineering data used in piping analysis and other design calculations cannot be readily retrieved through any TVA documentation system directly as required by 10 CFR 50, Appendix B. Proper identification of valves should be maintained by part number, serial number, or other appropriate means on the valve bodies and cross-referenced on all associated drawings and permanent records. This identification is used for the retrieval of records and is designed to prevent the use of incorrect parts and components in piping systems. At the time that documentation requirements were being developed for WBN, the requirement for readily retrievable valve information did not exist.

Safety Implications

Without these controls, a piping analysis may utilize an incorrect valve weight which could invalidate the seismic analysis of various safety-related systems. This could lead to pipe failure under design basis accident conditions and, subsequently, reduce coolant flow to the core, which could adversely affect the safety of the plant.

Corrective Action

The Watts Bar Miscellaneous Valves Master Status Report RPT009 and The Instrumentation Valves Construction Status Report RPT010 have been modified to include the addition of the manufacturer's drawing number. This has resulted in a cross reference listing between valve tag numbers, valve mark numbers, contract numbers, and the manufacturer's drawing number. Those portions of the master valve status reports RPT009 and RPT010 which contain quality information are controlled through the drawing issue process per Engineering Procedure WBP-EP 43.22 which defines and controls the use and maintenance of the master valve status report quality control list. Issuance of a valve list for the waste disposal system and an update of reference drawings on several flow diagrams will bring this system up to date. This work will be completed by September 1, 1983.