400 Chestnut Street Tower II

September 23, 1981

WBRD-50-390/81-47
WBRD-50-391/81-46

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 - ERCW FLOW CONTROL VALVE DEFICIENCY - WBRD-50-390/81-47, WBRD-50-391/81-46 - SECOND INTERIM REPORT

The subject condition was initially reported to NRC-OIE Inspector M. V. Crlenjak on May 6, 1981 in accordance with 10 CFR 50.55(e) as NCR 3080R. Our first interim report was submitted on June 5, 1981. Enclosed is our second interim report. We expect to provide additional information by December 3, 1981.

If you have any questions, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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
ERCW FLOW CONTROL VALVE DEFICIENCY
WBRD-50-390/81-47, WBRD-50-391/81-46
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Four essential raw cooling water (ERCW) flow control valves that were supplied as a part of ASME Section III water chiller packages are not available as ASME Section III code valves. At high ERCW temperatures, the valve functions normally. However, at low ERCW temperatures the valves throttle down to a low volumetric flow rate with a high flow velocity. Such a high velocity erodes the soft rubber seal of the globe. The estimated life of the seal is approximately six months.

Corrective Action

In our last report, it was stated that the subject valves would be replaced with qualified components. However, TVA was unable to procure qualified direct replacement valves. We are now investigating design modifications to resolve this deficiency. We will provide further details in our next report.