TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

USNRC REGION II ATLANTA, GEORGIA

December DEC 11 AM 8:00 1981

WBRD-50-390/81-97
WBRD-50-391/81-91

RECEIVED DEC 17 1981

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 - OVERCURRENT RELAY TRIP SETPOINT TOO LOW ON 6900-VOLT MOTORS - WBRD-50-390/81-97, WBRD-50-391/81-91 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on November 6, 1981 in accordance with 10 CFR 50.55(e) as NCR W-65-P. Enclosed is our first interim report. We expect to submit our next report by February 26, 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, 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
OVERCURRENT RELAY TRIP SETPOINT TOO LOW ON 6900-VOLT MOTORS
WBRD-50-390/81-97, WBRD-50-391/81-91
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of the Deficiency

Recent instantaneous trips of safety-related 6900-volt motors (the auxiliary feedwater and essential raw cooling water pump motors specifically) with no motor problems (electric tests negative) indicate the instantaneous trip setpoints for these motors are too low. The reliable automatic starting of these motors is suspect, thus creating a safety concern.

Interim Progress

TVA has approved a revised relay setting sheet that increased the instantaneous setpoint from 145 percent of locked rotor current to 187 percent of locked rotor current for auxiliary feedwater pump motors 1A-A, 1B-B, 2A-A, and 2B-B.

Also, TVA is in the process of reevaluating all the remaining 6900-volt motor instantaneous overcurrent relay settings.