

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 26, 1982

NRC REGION
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A10: 51

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

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 - OVERCURRENT RELAY TRIP SETPOINT TOO LOW ON 6900-VOLT MOTORS - WBRD-50-390/81-97, WBRD-50-391/81-91 - SECOND 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. Our first interim report was submitted on December 9, 1981. Enclosed is our second interim report. We expect to submit our next report by July 1, 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. Richard C. DeYoung, 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)
SECOND INTERIM REPORT**

Description of Deficiency

Recent instantaneous trips of safety-related 6900V 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's Engineering Design (EN DES) and Power System Operations (PSO) have reviewed and approved relay setting sheets that increase the instantaneous relay setpoint to a value that should prevent the safety-related 6.6-kV motors circuit breakers from tripping on starting current. These setpoint changes are being made for the following safety-related motors:

Auxiliary Feedwater Pump Motors 1A-A, 1B-B, 2A-A, and 2B-B

Essential Raw Cooling Water Pump Motors A-A, B-A, C-A, D-A, E-B, F-B, G-B, and H-B

Safety Injection Pump Motors 1A-A, 1B-B, 2A-A, and 2B-B

The remaining 6.6-kV safety-related motors have instantaneous relay setpoints that should prevent them from tripping on starting current and were not affected by this nonconformance.

As a result of this NCR, EN DES has also reviewed and approved relay setting sheet changes for the following nonsafety-related 6.6-kV motors:

Standby Feed Pump Motors No. 1 and 2

Condenser Circulating Water Pump Motors 1A, 1B, 1C, 1D, 2A, 2B, 2C, and 2D

These relay changes will be made before unit 1 fuel loading.

EN DES and PSO are in the process of establishing the necessary action required to prevent recurrence.