

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

June 20, 1983

WBRD-50-390/83-09
WBRD-50-391/83-08

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 - VALVE POSITION INDICATION PROBLEMS
FOR EMD GATE VALVES - WBRD-50-390/83-09, WBRD-50-391/83-08- SECOND INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
L. Watson on February 3, 1983 in accordance with 10 CFR 50.55(e) as NCR
WBN NEB 8302. Our first interim report was submitted on March 4, 1983.
Enclosed is our second interim report. We expect to submit our next report
on or about September 28, 1983.

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 Licensing

Enclosure

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

Records Center (Enclosure)
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
VALVE POSITION INDICATION PROBLEMS FOR EMD GATE VALVES
NCR WBN NEB 8302
WBRD-50-390/83-09, WBRD-50-391/83-08
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Valve position indication for certain Westinghouse (Pittsburgh, Pennsylvania) manufactured (EMD) gate valves indicate "closed" prior to the valve disc fully isolating flow. Should the valve stall (or bind) following the premature indication being given, the operator would have an inaccurate indication of the true valve position.

A geared limit switch rotor is set to provide an electrical bypass of the open torque switch at the beginning of the opening stroke. As a result, it is likely that monitor and/or indicator lights also operated by that rotor will indicate valve closure slightly before the flow path is completely shut off. If the valve were to stop between this set point and the full shut off position, a flow path through the valve could exist even though a closed indication has been achieved.

Interim Progress

The field change notices (FCNs) prepared to correct the valve closure indication problems have been provided by Westinghouse and approved by TVA. The modifications documented on the FCNs require that TVA drawings be revised to show the wiring changes required on the indicator lights. TVA is preparing an Engineering Change Notice (ECN) to revise the affected drawings. Also, TVA is awaiting a response from Westinghouse detailing the assignable cause and the action required to prevent recurrence. Additional information will be provided in our next submittal.