ENCLOSURE
WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
INCORRECT TUBING CONFIGURATION ON CONTAINMENT ISOLATION VALVE ACTUATORS
WBRD-50-390/86-09, WBRD-50-391/86-08
SCRWBNMEB8546 AND SCRWBNMEB8550
AND NCR WBN 6328
10 CFR 50.55(e)
INTERIM REPORT

Description of Deficiency

A condition was identified for Watts Bar Nuclear Plant (WBN) in which containment isolation valves 2-FCV-30-10 and 2-FCV-30-40 do not meet closing time requirements as specified in the WBN FSAR Section 6.2.4. The subject air-operated valves are located on system 30 (ventilation). This condition was documented in nonconforming condition report (NCR) WBN 6328. On valve 2-FCV-30-10, the exhaust air line from the cylinder is tubed to the solenoid. This requires air to exhaust through the solenoid. On valve 2-FCV-30-40, the exhaust air line is excessive in length. As such, the operators are unable to exhaust air from the cylinders and close within the specified time requirement.

Significant condition reports (SCRs) SCRWBNMEB8546 and SCRWBNMEB8550 identify that all air-operated system 30 containment isolation valves, except 2-FCV-30-10 which does not have a quick exhaust valve installed, have a speed control valve installed in the exhaust port of the quick exhaust valve. Speed control valves are intended to control opening times only, and therefore, should be installed in the supply air line. In the exhaust line, speed control valve adjustments could change or be changed. This could result in a failure to meet closing time requirements for an affected valve.

Safety Implications

A failure of affected containment isolation valves to meet closing time requirements during a design basis accident (e.g., a loss of coolant accident) could result in offsite doses in excess of 10CFR100 limits. As such, the subject deficiency could adversely affect the safety of operations of the plant.

Interim Progress

TVA will add a quick exhaust valve to valve 2-FCV-30-10, and valve 2-FCV-30-40 will be retubed to shorten the exhaust line. Also, speed control valves will be removed from all affected valves which have the speed control valves installed in the exhaust port of the quick exhaust valve. All affected valves will then be tested to ensure that closing time requirements will be met.

The results of this testing will be reviewed by TVA's Office of Engineering before further corrective actions are determined. Additionally, TVA will revise applicable vendor drawings and TVA standard schematic drawing 4/W600-223 to reflect the acceptable tubing configuration with sufficient detail.

TVA will provide a final report on this item to the NRC by February 28, 1986.

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
SW 105B Lookout Place

January 16, 1986

WBRD-50-390/86-09
WBRD-50-391/86-08

U.S. Nuclear Regulatory Commission
Region II
Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - INCORRECT TUBING CONFIGURATION ON CONTAINMENT ISOLATION VALVE ACTUATORS - WBRD-50-390/86-09, WBRD-50-391/86-08 - INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector Dave Verrelli on December 10, 1985 in accordance with 10 CFR 50.55(e) as SCRs WBN MEB 8546, MEB 8550, and MEB 6328. Enclosed is our interim report. We expect to submit our next report on or about February 28, 1986. Delay in submittal of this report was discussed with Bob Carroll on January 15, 1986.

If you have any questions, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer

J. A. Domer
Manager of Licensing

Enclosure
cc: Mr. James Taylor, Director (Enclosure)
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U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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IE27