

## TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

AUG 8 1977



Mr. Norman C. Mosaley, Director  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Region II - Suite 1217  
230 Peachtree Street, NW.  
Atlanta, Georgia 30303

Dear Mr. Mosaley:

**WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - REPORTABLE DEFICIENCY -  
WESTINGHOUSE BEAVER DIVISION AR RELAY DEFICIENCY (NCR 8  
ENGINEERING DESIGN)**

The subject deficiency was initially reported to NRC-OIE Region II Inspector V. L. Browlee on July 8, 1977, in accordance with 10 CFR 50.55(e). The following is our first interim report on this deficiency.

TVA was notified on July 8, 1977, by a Westinghouse representative that Westinghouse had reported to the NRC Office of Nuclear Reactor Regulation a deficiency in the AR relays produced by their Beaver Division and installed in the solid-state protection system (SSPS) panels by Westinghouse Nuclear Instrumentation and Controls Division in Baltimore, Maryland.

Tests on production AR relays at Westinghouse Beaver Division showed that a significant number would not stay locked in the closed position and thereby failed the test. The Westinghouse representative reported that all AR relays installed in the Watts Bar Nuclear Plant SSPS panels previously passed this test. Although the relays supplied for our Watts Bar Plant passed the Westinghouse production test, the exact cause of the deficiency is unknown at this time and there is room for reasonable doubt that the Westinghouse test verifies component adequacy.

There are 98 of these relays in the SSPS panels at Watts Bar and an investigation is underway to determine if these relays are contained in other circuits. Relay replacement or an evaluation to show their adequacy will require significant effort.

Mr. Norman C. Moseley

AUG. 8 1977

TVA will provide a copy of the Westinghouse final report to Region II upon receipt of our copy from Westinghouse.

Very truly yours,

J. E. Gilleland  
Assistant Manager of Power

cc: Dr. Ernst Volgenau, Director ✓  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

830 Power Building  
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