

AUG 8 1977



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

Dear Mr. Moseley:

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. Brownlee 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 18 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

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830 Power Building
TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401

Central File
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