

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401



January 4, 1974



Mr. John F. O'Leary, Director
Directorate of Licensing
Office of Regulation
U.S. Atomic Energy Commission
Washington, DC 20545

Dear Mr. O'Leary:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 -
DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - ABNORMAL
OCCURRENCE REPORT BFA0-7348W

The enclosed report is to provide details concerning HPCI failure
which occurred on Browns Ferry Nuclear Plant unit 1 on December 25,
1973, and is submitted in accordance with Appendix A to Regulatory
Guide 1.16, Revision 1, October 1973.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

E. F. Thomas
for E. F. Thomas
Director of Power Production

Enclosure
CC (Enclosure):

Mr. Norman C. Moseley, Director
Region II Regulatory Operations Office, USAEC
230 Peachtree Street, NW.
Atlanta, Georgia 30303

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ABNORMAL OCCURRENCE REPORT

Report No.--BFAO-7348W
Report Date--January 4, 1974
Occurrence Date--December 25, 1973
Facility--Browns Ferry Nuclear Plant unit 1

Identification of Occurrence

HPCI failure.

Conditions Prior to Occurrence

The unit was operating at 1580 MWt and 440 MWe.

Description of Occurrence

At approximately 11:00 p.m., the HPCI turbine failed to reach rated speed and flow during routine surveillance testing. The control valve came open on initiation, but returned immediately to the closed position.

Designation of Apparent Cause of Occurrence

A resistor was open in the Woodward unit which supplies the 48-volt dc power to the EG-M governor control box. Therefore, the governor was unable to give the control valve a proper control signal.

Analysis of Occurrence

Safe shutdown of the reactor would have been possible because the remaining emergency core cooling systems were operable.

Corrective Action

The resistor box was replaced and a surveillance test was performed to demonstrate operability. The turbine performed satisfactorily.

Failure Data

Resistor box, Woodward, Part No. 8270-282.