TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401

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November 23, 1973

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 BFAO-7337W

The enclosed report is to provide details concerning ADS permissive, core spray pump discharge pressure switch malfunction which occurred on Browns Ferry Nuclear Plant unit 1 on November 14, 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
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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WASHINGTON, D.C.

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ABNORMAL OCCURRENCE REPORT

Report No.--BFAO-7337W
Report Date--November 23, 1973
Occurrence Date--November 14, 1973
Facility--Browns Ferry Nuclear Plant unit 1

Identification of Occurrence

Unit 1 ADS permissive, core spray pump discharge pressure switch malfunction.

Conditions Prior to Occurrence

Reactor in startup mode, less than 1 percent power.

Description of Occurrence

During routine surveillance testing on November 14, 1973, core spray pump discharge pressure switches PS-75-7 and 35 were found to operate outside the technical specification setpoint of 185 $\pm$ 10 psig as specified in Table 3.2.B. Both switches operated at 225 psig.

Analysis of Occurrence

These switches operate relays in the ADS permissive logic such that operation of one switch affects one of the two trip logics in both trip systems. Both of these switches affected the same trip logic in both trip systems. The other two switches were immediately tested and found to operate satisfactorily. Although the setpoint had drifted to 225 psig, the core spray pump discharge pressure is greater than 250 psig and, if required, the core spray pump permissive logic for the ADS would have performed its intended function.

Corrective Action

The switches were recalibrated and functionally tested several times to verify repeatability. No problems could be found and the switches were returned to service. An accelerated testing frequency of once every two weeks has been established for all four switches until three consecutive tests prove satisfactory performance. At that time, the original test schedule of once a month will be reestablished.

Failure Data

Mercoid Model DA 7943-804

Serial Nos.:	PS-75-7	SD-12998
	PS-75-35	SD-12996

Switch	Date	Failure	Corrective Action
PS-75-7	11/14/73	Operated outside tech spec limit	Reset switch to setpoint
PS-75-35	11/14/73	Operated outside tech spec limit	Reset switch to setpoint