

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401



October 26, 1973



Mr. John F. O'Leary
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-7327W

The purpose of this report is to provide details concerning the malfunction of recirculation jet pump riser d/p switch PdIS-68-24 in unit 1 at Browns Ferry Nuclear Plant on October 16, 1973. This occurrence was reported by telegram on October 17 to the Region II Directorate of Regulatory Operations, Atlanta, Georgia.

Description of the Incident

During routine surveillance testing on October 16, recirculation jet pump riser d/p switch PdIS-68-24 was found to operate outside the technical specification setpoint of greater than 0.5 but less than 1.5 psid as specified in table 3.2.B. The as-found setpoint was 1.8 psid.

Investigation and Corrective Action

Each of the four differential pressure switches operate relays whose contacts are arranged in a one out of two taken twice logic in the RHR injection circuit. The minimum number of channels required for each trip system is two. The other two channels were tested, found to operate satisfactorily, and, if required, would have performed their intended function. The reactor was in the hot standby condition.

These switches are Barton model 288 differential pressure switches. The switch mechanisms were inspected for binding misalignment of other irregularities. None was found. The switches were recalibrated and then functionally tested several times to ensure repeatability. A functional testing frequency of once every 2 weeks has been initiated

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for all four switches and will be continued until three consecutive tests prove satisfactory performance. At that time, the original test schedule of once a month will be resumed. We intend to install, as soon as possible upon receipt, new locking switchplate assemblies recently made available by the vendor to prevent setpoint drift.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



for E. F. Thomas
Director of Power Production

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