

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401



May 23, 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 BFAO-7430W

The enclosed report is to provide details concerning a reactor building
closed cooling water (RBCCW) backup cooling water supply valve FCV 67-50
which was inoperable and is submitted in accordance with Appendix A to
Regulatory Guide 1.16, Revision 1, October 1973. This event occurred on
Browns Ferry Nuclear Plant unit 1 on May 13, 1974.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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

Enclosure

CC (Enclosure):

Mr. Norman C. Moseley, Director
Region II Regulatory Operations Office, USAEC
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ABNORMAL OCCURRENCE REPORT

Report No.: BFAO-7430W
Report Date: May 23, 1974
Occurrence Date: May 13, 1974
Facility: Browns Ferry Nuclear Plant unit 1

Identification of Occurrence

Reactor building closed cooling water (RBCCW) backup cooling water supply valve FCV 67-50 inoperable.

Conditions Prior to Occurrence

The unit 1 reactor was in the cold shutdown condition. Routine surveillance testing of the RBCCW system was in progress.

Description of Occurrence

RBCCW backup cooling water supply valve FCV 67-50 was closed and would not open.

Designation of Apparent Cause of Occurrence

FCV 67-50 is a normally closed diaphragm operated valve requiring water pressure on the diaphragm to open the valve. A strainer in the water supply line to the diaphragm became plugged and prevented the valve from opening.

Analysis of Occurrence

With FCV 67-50 inoperable, the other RBCCW backup cooling water supply valve (FCV 67-51) would have opened and supplied water to the RBCCW heat exchangers had the normal raw cooling water pressure dropped to a predetermined value.

Corrective Action

The strainer in the waterline to the diaphragm operator was changed. A modification change request has been approved to modify this system and eliminate the need for frequent strainer changes. At the present time, the strainer on this valve is changed once a month. Until the modification is implemented, the strainer change frequency will be once every two weeks.

Failure Data

Nameplate data for FCV 67-50 is as follows:

Fisher Controls
S/N - 5442452
Type - 657-8-UR
Size - 46
Spring Set - 7
PSI Initial Travel - 4 1/8
30 PSI To Open

Failure Data (continued)

Valve Body Size - 8
Rating - 150
Body Material - WCB Steel
Trim - 317 Chrome
Seal Construction - 316SS
Order No. - 72C33-75133-1
Bushing - Stainless