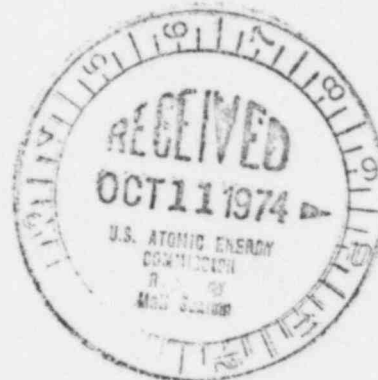


TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401



October 9, 1974



Mr. Edison G. Case
Acting Director of Licensing
Office of Regulation
U.S. Atomic Energy Commission
Washington, DC 20545

Dear Mr. Case:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 -
DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - ABNORMAL
OCCURRENCE REPORT BFAO-50-259/7452W

The enclosed report is to provide details concerning a broken yoke
weld which was discovered on the RHR loop 1 torus spray valve
FCV-74-58 at approximately 1300 hours on September 29, 1974, 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., Suite 818
Atlanta, Georgia 30303

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ABNORMAL OCCURRENCE REPORT

Report No.: BFAO-50-259/7452W
Report Date: October 9, 1974
Occurrence Date: September 29, 1974
Facility: Browns Ferry Nuclear Plant unit 1

Identification of Occurrence

At approximately 1300 hours on September 29, 1974, a broken yoke weld was discovered on the RHR loop 1 torus spray valve FCV-74-58.

Conditions Prior to Occurrence

The unit 1 reactor was in the cold shutdown condition.

Description of Occurrence

During a routine inspection by an operator, a broken yoke weld was discovered on valve FCV-74-58. This valve is known to have operated satisfactorily during the performance of the RHR valve operability surveillance test on September 6, 1974. The valve yoke either broke as the valve finished closing on September 6, 1974, or from vibration or operation at a later date.

Designation of Apparent Cause of Occurrence

An examination of the yoke indicated the apparent cause of the failure to be an insufficient amount of weld or overstress of the weld.

Corrective Action

The fillet weld between the valve operator mounting plate and the yoke arms failed. Repairs were made by beveling the yoke arms and removing all previously deposited weld material from the mounting plate and rewelding. A full-penetration weld instead of the fillet weld was applied. The valve was reassembled with the yoke arms in a vertical plane to provide additional stiffening. Limit switches and torque switches were set. Functional and leak rate tests of the valve were satisfactory.

Valve FCV-74-72, which is another water supply valve to the torus spray, was inspected for cracks. A crack was found in the yoke arm close to the valve body. The crack was ground out and repaired by welding. The valve was reassembled with the yoke arms in a vertical plane. Design engineers inspected the valve installations, and a modification has been submitted for approval which provides hanger supports. During the inspection of FCV-74-58, a small water leak was noted on a drain line on FCV-74-57. This drain line was not required for draining or venting, and the leak was repaired by removal of the line and plug welding.