

## ABNORMAL OCCURRENCE REPORT

Report No.: BFAO-50-260/7424W  
Report Date: November 14, 1974  
Occurrence Date: November 4, 1974  
Facility: Browns Ferry Nuclear Plant unit 2

### Identification of Occurrence

The HPCI system was inoperable as a result of blown head gaskets on the gland steam condenser and flooding of the gland steam condenser hotwell pump motor.

### Conditions Prior to Occurrence

The unit was in a hot shutdown condition following a reactor scram.

### Description of Occurrence

The HPCI was automatically initiated following a reactor scram at 0938 hours on November 4, 1974. The water level in the reactor was restored with no indication of trouble. A short time later, the HPCI room was inspected and no leaks were noted. At 1300 hours, ground indication was received on the gland steam condenser hotwell pump motor. An investigation revealed that leakage from both the upper and lower head gaskets on the gland steam condenser had flooded the gland steam condenser hotwell pump and motor.

### Designation of Apparent Cause of Occurrence

The exact cause has not been determined.

### Analysis of Occurrence

Failure of the head gaskets on the gland steam condenser which caused the HPCI to become inoperable did not jeopardize unit operation or create a hazard to the public. The other core cooling systems were operable.

### Corrective Action

1. The upper and lower head gaskets on the gland steam condenser were replaced.
2. The gland steam condenser hotwell pump motor was dried out and meggered satisfactorily.
3. The HPCI was tested and returned to operable condition.
4. A plant modification has been initiated which incorporates General Electric Company's corrective action recommendations including provision of a metal clamping ring with a gasket to support the present gasket and lowering the inlet cooling water supply relief valve setpoint. These recommendations will be considered by TVA Design and implemented when approved.

### Failure Data

Previous failures are reported on Abnormal Occurrence Report Nos. BFAO-50-260/7416W and BFAO-50-260/7417W.

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TENNESSEE VALLEY AUTHORITY  
CHATTANOOGA, TENNESSEE  
37401



November 14, 1974



Mr. Edson 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 2 -  
DOCKET NO. 50-260 - FACILITY OPERATING LICENSE DPR-52 - ABNORMAL  
OCCURRENCE REPORT BFAO-50-260/7424W

The enclosed report is to provide details concerning the HPCI system which was inoperable as a result of blown head gaskets on the gland steam condenser and flooding of the gland steam condenser hotwell pump motor 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 2 on November 4, 1974.

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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