

NORMAL OCCURRENCE REPORT

Report No.: BFAO-50-260/752W
Report Date: January 24, 1975
Occurrence Date: January 16, 1975
Facility: Browns Ferry Nuclear Plant unit 2

Identification of Occurrence

The RCIC turbine tripped during operation.

Conditions Prior to Occurrence

The unit was in hot shutdown condition and the RCIC was being operated to remove decay heat from the reactor.

Description of Occurrence

The RCIC was operating at a steady state and tripped. Resetting of the steam inlet throttle valve from the control room could not be accomplished. An inspection of the turbine was made, and movement of the overspeed linkage allowed the turbine to be reset and manually started. The RCIC was inoperable for 25 minutes.

Designation of Apparent Cause of Occurrence

The apparent cause of the RCIC turbine trip was the misposition of the mechanical overspeed emergency tappet nut. The flat surface on the tappet nut had rotated out of alignment with the emergency head lever, thus allowing the mechanical overspeed tappet and ball to raise when the electric solenoid trip was actuated. Vibration from turbine operation could cause a partially raised overspeed tappet nut to disengage with the head lever and trip the turbine.

Analysis of Occurrence

There was no damage to any systems, components, or structures as a result of this occurrence nor were there any adverse effects to the public health and safety. Other core cooling equipment was available if it had been required. The RCIC turbine was restored to service in 25 minutes and was satisfactorily operated during the cooldown of the reactor.

Corrective Action

The overspeed emergency tappet nut was rotated for proper alignment with the emergency head lever. The proper engagement between these parts was checked and found to be satisfactory. The overspeed actuating linkage was checked for freedom of movement, and a slight binding in one connection was removed. The electric solenoid was actuated several times with no movement of the tappet nut observed. Set screws on the actuating linkage were checked for tightness with levers in their proper position.

Failure Data

Unit 2 RCIC Pump Drive
Terry Steam Turbine Co.
Hartford, Connecticut

8308240270 750124
PDR ADOCK 05000260
S PDR

TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE
37401



January 24, 1975

Mr. Edson G. Case
Acting Director of Licensing
U.S. Nuclear Regulatory 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-50-260/752W

The enclosed report is to provide details concerning the RCIC turbine which tripped during operation 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 January 16, 1975.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


E. F. Thomas
Director of Power Production



Enclosure
CC (Enclosure):

Mr. Norman C. Moseley, Director
U.S. Nuclear Regulatory Commission
Regional Office
230 Peachtree Street, NW., Suite 818
Atlanta, Georgia 30303

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