A05 02/78

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DOCTYPE: LETTER NOTARIZED: NO
SUBJECT:
FORWARDING LICENSEE EVENT REPT (RO 50-296/78-010) ON 04/09/78 CONCERNING RBM CHANNELS BECAME CONTINUOUSLY BYPASSED... ALL ROD MOVEMENT WAS TERMINATED....W/ATT.

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PLANT NAME: BROWNS FERRY - UNIT 3

REVIEWER INITIAL: XJM
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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

MAY 1 1978

REGULATORY DOCKET FILE COPY

Mr. James P. O'Reilly, Director
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
230 Peachtree Street, NW., Suite 1217
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 3 - DOCKET NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE OCCURRENCE REPORT BFRO-50-296/7810

The enclosed report provides details concerning both RBM channels which became continuously bypassed during power ascension. This report is submitted in accordance with Browns Ferry unit 3 Technical Specification 6.7.2.a.(2).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

H. S. Fox
Director of Power Production

Enclosure (3)
cc (Enclosure):
Director (3)
Office of Management Information and Program Control
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Director (40)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

A002
S/1

NRC FORM 366 (7-77)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | A L B R F 3 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | | | (5)
LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

CON'T 01 | REPORT SOURCE L (6) | 0 5 0 0 0 2 9 6 (7) | 0 4 0 9 7 8 (8) | 0 5 0 2 7 8 (9)
DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During power ascension, both RBM channels became continuously bypassed.
03 The RBM was not operable as specified in technical specification 3.2.C.1.
04 Upon discovery all rod movement was terminated. There have been no previous
05 events of this type. Prior to the discovery of the malfunction, all rod
06 movements were properly prescribed by nuclear engineers; core thermal
07 limits monitored and significant margin to all thermal limits were
08 maintained. There was no potential for hazard to public safety.

09 | SYSTEM CODE: I E (11) | CAUSE CODE: E (12) | CAUSE SUBCODE: G (13) | COMPONENT CODE: I N S T R U (14) | COMP. SUBCODE: X (15) | VALVE SUBCODE: Z (16)

(17) LER/RO REPORT NUMBER | EVENT YEAR: 7 8 | — | SEQUENTIAL REPORT NO.: 0 1 0 | / | OCCURRENCE CODE: 0 1 | REPORT TYPE: T | — | REVISION NO.: 0

ACTION TAKEN: A (18) | FUTURE ACTION: X (19) | EFFECT ON PLANT: Z (20) | SHUTDOWN METHOD: Z (21) | HOURS (22): 0 0 0 0 0 | ATTACHMENT SUBMITTED: Y (23) | NPRD-4 FORM SUB.: N (24) | PRIME COMP. SUPPLIER: N (25) | COMPONENT MANUFACTURER: C 3 4 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 Contact 5-6 of rod select relay KXB for CRD 38-03 (C.P. Clare MR4MC-1023)
11 stuck closed and maintained 28 volts on the edge rod bus. This condition
12 improperly bypassed the RBM. Following replacement of the defective relay,
13 the RBM was verified functional.
14

15 | FACILITY STATUS: E (28) | % POWER: 0 7 7 (29) | OTHER STATUS (30): N/A | METHOD OF DISCOVERY: A (31) | DISCOVERY DESCRIPTION (32): Operator observation.

16 | ACTIVITY RELEASED: Z (33) | CONTENT OF RELEASE: Z (34) | AMOUNT OF ACTIVITY (35): N/A | LOCATION OF RELEASE (36): N/A

PERSONNEL EXPOSURES
17 | NUMBER: 0 0 0 (37) | TYPE: Z (38) | DESCRIPTION (39): N/A

PERSONNEL INJURIES
18 | NUMBER: 0 0 0 (40) | DESCRIPTION (41): N/A

LOSS OF OR DAMAGE TO FACILITY (43)
19 | TYPE: Z (42) | DESCRIPTION: N/A

PUBLICITY
20 | ISSUED: N (44) | DESCRIPTION (45): N/A | NRC USE ONLY

NAME OF PREPARER __________ PHONE: __________

*Revision

REPORTABLE OCCURRENCE REPORT

Report Number : BFRO-50-296/7810

Report Date : May 2, 1978

Occurrence Date: April 9, 1978

Facility : Browns Ferry Nuclear Plant Unit 3

Identification of Occurrence

Operator observation of RBM recorders downscale and RBM bypass lights on.

Conditions Prior to Occurrence

Normal operation at 77-percent power, during ascension to full load.

Description of Occurrence

Both RBM channels became continuously bypassed. Review of potential reportable occurrence report revealed report should have been a prompt report as required by Technical Specification 6.7.2.a.(2).

Designation of Apparent Cause of Occurrence

Maintained voltage on edge rod selected bus. Misinterpretation of the technical specifications.

Analysis of Occurrence

Contact 5-6 of rod select relay KXB for CRD 38-03 stuck closed.

Corrective Action

Replacement of defective relay. Discussed meaning of technical specification with plant staff.

Failure Data

No previous failures.

JGD:SGS
5/4/78