

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Browns Ferry Unit 3										DOCKET NUMBER (2) 0 5 0 0 0 2 9 6										PAGE (3) 1 OF 02	
TITLE (4) Inadvertent Reactor Water Cleanup Isolation, Cause Unknown																					
EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)											
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES					DOCKET NUMBER(S)							
0 9	1 8	8 7	8 7	0 0 3	0 0	1 0 1	6 8	7						0 5 0 0 0							
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)																			
N		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)							
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)							
0 0 0		20.406(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)							
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)											
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)											
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)											
LICENSEE CONTACT FOR THIS LER (12)																					
NAME										TELEPHONE NUMBER											
Stephen B. Jones, Engineer, Plant Operations Review Staff										210 57 12 91 -13 71818											
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																					
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs											
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
YES (If yes, complete EXPECTED SUBMISSION DATE)										<input checked="" type="checkbox"/> NO											

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 18, 1987, at 1841 hours, the unit 3 reactor water cleanup (RWCU) system isolated unexpectedly during troubleshooting maintenance on a secondary containment isolation damper. A second isolation occurred at 1850. Investigation into the isolations did not identify a cause, and the isolation could not be repeated despite efforts to duplicate the conditions. No corrective action is planned at this time.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Borwns Ferry Unit 3	0 5 0 0 0 2 9 6	8 7	— 0 0 3	— 0 0	0 2	OF 0 2

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Description of Event

All three units were in refueling outages and completely defueled at the time of this event. This event affected only unit 3.

On September 18, 1987, at 1841 hours, an unplanned partial isolation of the unit 3 reactor water cleanup (RWCU) system (EIS identifier CE) occurred. Two outboard isolation valves closed and the pump tripped while maintenance personnel were checking the continuity of circuitry in the isolation logic for a unit 3 reactor zone exhaust damper. This logic is not associated with the RWCU logic. The same isolation occurred again at 1850 hours, under similar circumstances. The isolation had occurred both times while resetting simulated isolation logic for the damper under test. The unit operator and maintenance personnel then duplicated the conditions at the time of the original RWCU isolation in efforts to determine what was causing the RWCU isolation. The system would not isolate as it had previously. The RWCU system was returned to service at 1930.

Cause of Event

The duplication of the conditions that existed during the initial event did not reproduce the RWCU isolation. A review of the drawings and inspections of the electrical components associated with the primary containment isolation logic did not identify any extra wires, jumpers, or other problems that could have caused the event. The cause of the RWCU cleanup isolation has not been identified.

Corrective Actions

Since investigations cannot identify a specific component or operational problem that caused the RWCU isolation, no corrective action is planned at this time. More extensive testing for unit 3 restart may identify corrective measures needed.

Analysis of Event

This event posed no concern for plant safety. The isolation of RWCU is an engineered safety feature which places the plant in a more conservative operating configuration under conditions indicative of primary system leakage. RWCU is not a safety-related system required to shutdown the reactor. Therefore, if this event had occurred during power operation the safety of the plant would not have been compromised, because of the short duration of the event, the water quality in the reactor would not be adversely affected.

Previous Events - NoneCommitments - None

TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant
USNRC-DS Post Office Box 2000
Decatur, Alabama 35602

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U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

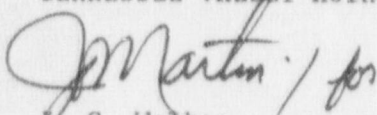
Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 3 - DOCKET
NO. 50-296 - FACILITY OPERATING LICENSE DPR-68 - REPORTABLE OCCURRENCE REPORT
BFRO-50-296/87003

The enclosed report provides details concerning the inadvertent reactor water
cleanup isolation, cause unknown. This report is submitted in accordance with
10 CFR 50.73 (a)(2)(iv).

Very truly yours,

TENNESSEE VALLEY AUTHORITY



J. G. Walker
Plant Manager
Browns Ferry Nuclear Plant

Enclosures

cc (Enclosures):

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U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
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NRC Resident Inspector, Browns Ferry Nuclear Plant

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