

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Browns Ferry Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 2 5 1 9 1	PAGE (3) OF 0 2
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TITLE (4)
Neutron Monitor Surveillance Test Deficiencies

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	4	18	8	6	8	6	0	1	8	0	0	0	5	2	18	6	Browns Ferry Unit 2	0 5 0 0 0 2 6 1 0
																	Browns Ferry Unit 3	0 5 0 0 0 2 9 1 6

OPERATING MODE (9) N

POWER LEVEL (10) 0 1 0 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.38(c)(1)	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.38(c)(2)	50.73(a)(2)(vi)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	50.73(a)(2)(vii)(A)	
20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(vii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Bertram C. Morris, Compliance Supervisor	TELEPHONE NUMBER 2 1 0 1 5 7 1 2 1 9 1 - 1 3 7 1 8 1 6
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

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

Browns Ferry is currently conducting a general review of surveillance instructions (SIs) as part of a procedures upgrade program. During a review of the intermediate range monitor (IRM) surveillance test, it was determined that a discrepancy existed between technical specification requirements and the test procedure. Specifically, for certain plant conditions technical specifications require functional testing of the IRM upscale scram and rod block trips. The IRM surveillance test is conducted with the IRM channel in "inop", which in itself causes a trip signal. The local panel trips are subsequently verified, but the individual trip signal is not verified to completion (half scram or rod block). The surveillance procedures will be rewritten to fulfill the functional test requirements. The remainder of the neutron monitoring surveillances are being reviewed for similar considerations. A followup report will be provided if additional discrepancies are discovered.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104
EXPIRES 8/31/88

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

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

Units 1 and 2 were in refueling outages with the fuel unloaded, and unit 3 was in an extended maintenance outage at the time of the discovery of the condition described below.

Browns Ferry is currently engaged in a comprehensive program which involves review and upgrading the general set of plant SIs. On April 18, 1986, during the review of neutron monitoring surveillances, an instrument engineer noted that the SI for the intermediate range monitors (IG) does not completely fulfill technical specification requirements.

Technical Specification Tables 4.1.A and 4.2.C require the IRM high flux trip be functionally checked once per week during refueling and prior to startup (scram function), and once per month (rod block function). Section 4.1 of SI 4.2 C-3 is currently performed prior to startup and monthly and is performed with the IRM channel in "inop" mode. Placement of the drawer switch in "inop" mode produces a half scram and rod block. The upscale scram function and rod block are then checked by the drawer indicating lights rather than allowing completion of the half scram signal and rod block. Part 4.2 of SI 4.2 C-3 provides the complete check, however, this test is only required to be performed weekly during refueling and prior to fuel loading. To correct the situation, it will be necessary to conduct Part 4.2 prior to startup to satisfy Table 4.1.A requirements, and during power operation Part 4.2 needs to be conducted to satisfy Table 4.2.C rod block requirements.

An additional concern was raised regarding the implementation of Note 13 to Table 3.2.C. This note acknowledges that in many cases rod block functions must be tested using local alarm lights on the neutron monitor panels. This is because of the multiplicity of the rod block bypass circuitry. The note requires that when the rod block function cannot be directly verified, then the rod block is to be verified during the operating cycle. Review of the relevant procedures indicates that no specific mechanism is in place to check that the direct rod block function would be tested during the operating cycle.

The root cause has been determined to be oversight by instrument personnel in formulating the SI. Testing of the drawers to verify the local trip lights and alarms provide high confidence that the circuitry is operating properly. Therefore, it is unlikely that this condition caused a significant safety problem. The SIs will be revised to correct the deficiencies discussed in this event report. A modification request will also be prepared to install an "inop" bypass switch to allow direct testing of circuit elements. The remainder of the neutron monitoring surveillances are currently being reviewed for similar considerations. A followup report will be provided if additional discrepancies are discovered.

Responsible Section - IM

Previous Similar Events - None

TENNESSEE VALLEY AUTHORITY

Browns Ferry Nuclear Plant
P.O. Box 2000
Decatur, Alabama 35602

May 21, 1986

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

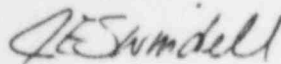
Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT UNIT 1 - DOCKET
NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE OCCURRENCE REPORT
BFRO-50-259/86018

The enclosed report provides details concerning test deficiencies discovered during the review of the Intermediate Range Monitor Surveillance Instruction. This is being submitted in accordance to 10 CFR 50.73 (a)(2)(i). An extension of the submitted date to May 20, 1986, was arranged with Region II.

Very truly yours,

TENNESSEE VALLEY AUTHORITY



Robert L. Lewis
Plant Manager
Browns Ferry Nuclear Plant

Enclosures

cc (Enclosures):

Regional Administration
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
Region II
101 Marietta Street, Suite 2900
Atlanta, Georgia 30303

INPO Records Center
Suite 1500
1100 Circle 75 Parkway
Atlanta, Georgia 30339

NRC Resident Inspector, Browns Ferry Nuclear Plant

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