

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9106190009 DOC.DATE: 91/06/11 NOTARIZED: NO DOCKET #  
 FACIL:50-260 Browns Ferry Nuclear Power Station, Unit 2, Tennessee 05000260  
 AUTH.NAME AUTHOR AFFILIATION  
 RIDGELL,E.M. Tennessee Valley Authority  
 ZERINGUE,O.J. Tennessee Valley Authority  
 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 91-010-00:on 910515,24 h limiting condition for  
 operation expired & sys affected by reactor vessel water  
 level transmitter not declared inoperable.Caused by  
 inadequate procedures.Personnel trained.W/910611 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 6  
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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05000260

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	AEOD/ROAB/DSP	2 2	NRR/DET/ECMB 9H	1 1
	NRR/DET/EMEB 7E	1 1	NRR/DLPQ/LHFB10	1 1
	NRR/DLPQ/LPEB10	1 1	NRR/DOEA/OEAB	1 1
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	NRR/DST/SICB8H3	1 1	NRR/DST/SPLB8D1	1 1
	NRR/DST/SRXB 8E	1 1	REG FILE 02	1 1
	RES/DSIR/EIB	1 1	RGN2 FILE 01	1 1
EXTERNAL:	EG&G BRYCE,J.H	3 3	L ST LOBBY WARD	1 1
	NRC PDR	1 1	NSIC MURPHY,G.A	1 1
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NOTES: 5 5

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Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609

O. J. "Ike" Zeringue  
Vice President, Browns Ferry Operations

JUN 11 1991

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

Dear Sir:

TVA - BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 2 - DOCKET NO. 50-260 -  
FACILITY OPERATING LICENSE DPR-52 - REPORTABLE OCCURRENCE REPORT  
BFRO-50-260/91010

The enclosed report provides details concerning violation of the plant  
Technical Specification (TS) when a 24-hour Limiting Condition for  
Operation expired and the required actions described by the TS had not  
been completed. This report is submitted in accordance with  
10 CFR 50.73(a)(2)(i).

Very truly yours,

TENNESSEE VALLEY AUTHORITY

  
O. J. Zeringue

Enclosure

cc: see page 2



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U.S. Nuclear Regulatory Commission

JUN 11 1991

cc (Enclosure):

INPO Records Center  
Suite 1500  
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NRC Resident Inspector, BFN

Regional Administration  
U.S. Nuclear Regulatory Commission  
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Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30323

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U.S. Nuclear Regulatory Commission  
One White Flint, North  
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Rockville, Maryland 20852



## LICENSEE EVENT REPORT (LER)

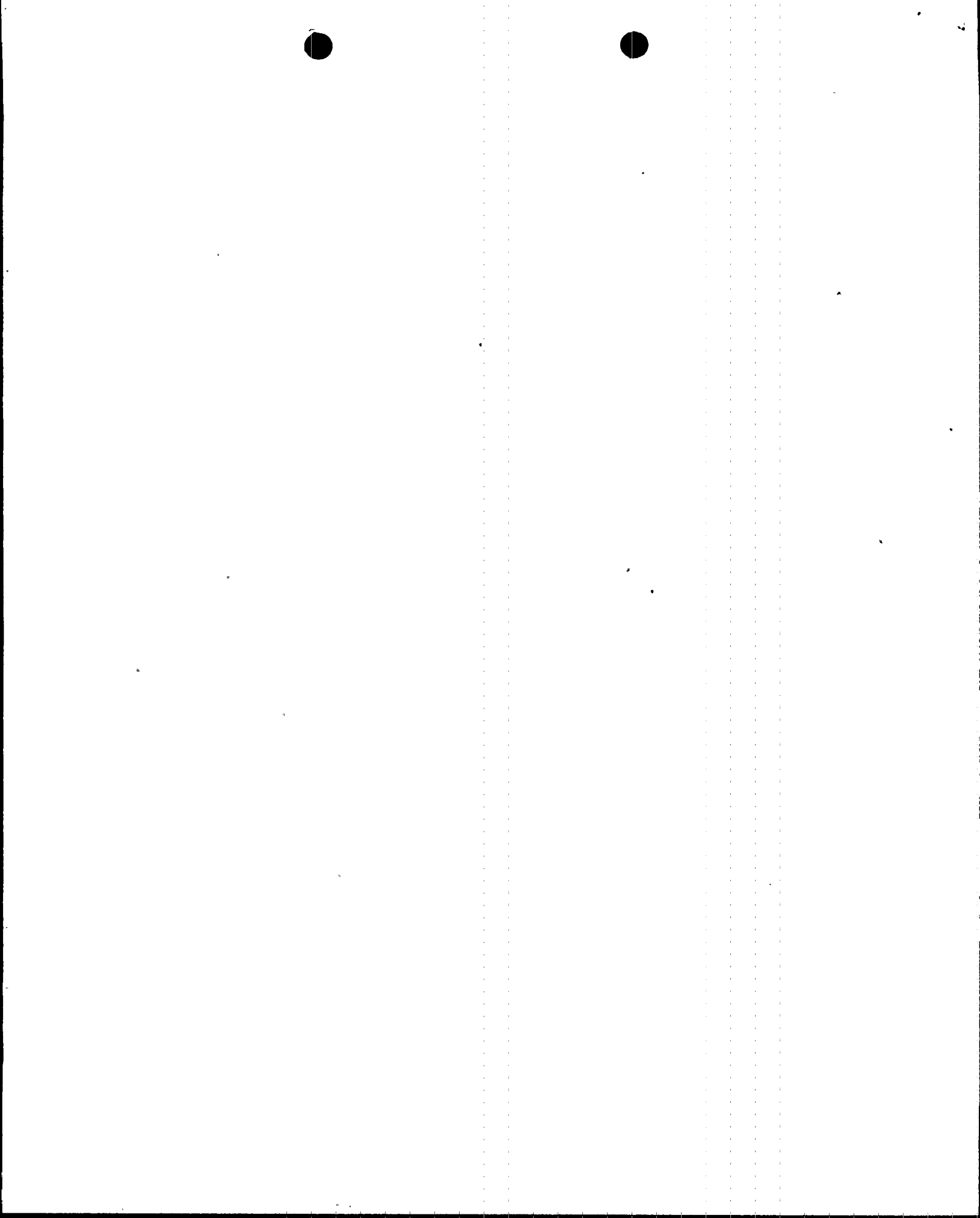
FACILITY NAME (1) Browns Ferry Unit 2										DOCKET NUMBER (2)   PAGE (3) 05010121610110104																	
TITLE (4) Plant Technical Specification Violation when 24-Hour Limiting Condition for Operation Expired Without Declaring Affected Systems Inoperable																											
EVENT DAY (5)					LER NUMBER (6)					REPORT DATE (7)					OTHER FACILITIES INVOLVED (8)												
					SEQUENTIAL   REVISION					FACILITY NAMES					DOCKET NUMBER(S)												
MONTH   DAY   YEAR   YEAR					NUMBER   NUMBER					MONTH   DAY   YEAR					05010101												
0   5   1   5   9   1   9   1					0   1   0   0   0					0   6   1   1   9   1					05010101												
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following)(11)																									
POWER		20.402(b)				20.405(c)				50.73(a)(2)(iv)				73.71(b)													
LEVEL		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)													
(10) 0   0   0		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				OTHER (Specify in													
		20.405(a)(1)(iii)				x 50.73(a)(2)(i)				50.73(a)(2)(vii)(A)				Abstract below and in													
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(vii)(B)				Text, NRC Form 366A)													
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(x)																	
LICENSEE CONTACT FOR THIS LER (12)																											
NAME										TELEPHONE NUMBER																	
Earl M. Ridgell, Compliance Licensing Engineer										AREA CODE																	
										2   0   5   7   2   9   -   2   0   4   7																	
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																											
CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NPRDS		CAUSE		SYSTEM		COMPONENT		MANUFACTURER		REPORTABLE TO NPRDS									
SUPPLEMENTAL REPORT EXPECTED (14)																				EXPECTED SUBMISSION DATE (15)		MONTH		DAY		YEAR	
YES (If yes, complete EXPECTED SUBMISSION DATE)										X   NO																	
ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																											

On May 15, 1991, a violation of the plant Technical Specifications (TSs) occurred when a 24-hour Limiting Condition for Operation (LCO) expired and the systems affected by a reactor vessel water level transmitter were not declared inoperable.

The root cause of this event was inadequate procedures. Operations is not required to be notified when equipment related to the TS is removed from service. Instead, procedures require Operations to be notified when it becomes apparent the the LCO time limit will expire.

The immediate corrective action was to declare the affected systems inoperable.

Additional corrective actions will include training of the affected plant personnel and revision of plant procedures.





LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)					
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER						
Browns Ferry Unit 2	0500026091	0	1	0	0	0	2	OF	0	4

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

DESCRIPTION OF EVENT

On May 15, 1991 at 1438 hours, a Technical Specification (TS) violation occurred when a 24-hour Limiting Condition for Operation (LCO) expired and the required actions described by the TS had not been completed.

On May 14, 1991 at 1438 hours, a 24-hour LCO was entered when a reactor vessel water level (RVWL) transmitter [JC] was removed from service for calibration. On May 14, 1991 at 1828 hours, Operations was notified that the RVWL transmitter could not be calibrated and was therefore inoperable. At this time, a log entry was made in the Operations LCO tracking log to document the time of entry into the LCO. However, the time documented in the LCO tracking log was the time the RVWL transmitter was determined to be inoperable (1828 hours) not the time the transmitter was removed from service (1438 hours). As a result of the incorrect log entry, Operations personnel did not declare the systems affected by the RVWL transmitter inoperable within the allotted 24 hours as required by the TS.

At the time of this event, Unit 2 was in cold shutdown and Units 1 and 3 defueled. In addition, no fuel handling or other operations over spent fuel were in progress. This event resulted in a violation of the plant TS and is reportable in accordance with 10 CFR 50.73(a)(2)(i).

ANALYSIS OF EVENT

The RVWL transmitter provides input to the reactor low water level instrument channel. This instrumentation is required for the operability of the following systems: Residual Heat Removal, Core Spray, Diesel Generators, Automatic Depressurization, High Pressure Coolant Injection, and Reactor Core Isolation Cooling.

The TS allows the RVWL transmitter to be out of service for 24 hours for calibration or repair. In the event that the calibration or repair of this transmitter cannot be completed within 24 hours then the affected systems must be declared inoperable.

There were no safety consequences or implications resulting from this event. If Unit 2 had been operating at power when this event occurred, the plant TS would have required the unit to be in hot standby within six hours and in cold shutdown within the following 30 hours. However, Unit 2 was already in cold shutdown during this event. Therefore, this event had no safety significance.



LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)			
		SEQUENTIAL	REVISION					
		YEAR	NUMBER	NUMBER				
Browns Ferry Unit 2	0500026091	0	1	0	0	0	0	3 OF 4

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

CAUSE OF EVENT

The root cause of this event was an inadequate procedure. The procedure used to perform this calibration documented the time the RVWL transmitter was removed from service. However, it did not require Operations to be notified of the time the instrument was removed from service. Instead, the procedure only required Operations to be notified if it appeared the work would exceed the LCO time limit.

In addition, a contributing factor to this event was inadequate communication. Plant personnel did not ensure the time entered in the Operations LCO tracking log was the actual time the RVWL transmitter was taken out-of-service.

CORRECTIVE ACTIONS

The immediate corrective action was to declare the systems affected by the RVWL transmitter inoperable. This action was completed on May 15, 1991 at 1550 hours.

Additional corrective actions will include the following:

First, affected plant personnel will review the event investigation.

Second, affected Maintenance personnel will be trained on the TS definition of "operable" and on how Operations interprets the terms "inoperable" and "out of service."

Finally, affected surveillances and electrical maintenance instructions will be revised to require operations to be notified of the time when TS related instrumentation is removed from service.

PREVIOUS SIMILAR EVENTS

BFRO-50-259/84031-During normal operation the 'D1' Residual Heat Removal Service Water (RHRSW) pump was removed from service. Contrary to the TS, the 'D2' RHRSW pump was not immediately verified to be operable. Plant personnel were trained on the associated procedures and on the TSs.



LICENSEE EVENT REPORT (LER)  
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)						PAGE (3)			
		SEQUENTIAL		REVISION							
		YEAR	NUMBER	NUMBER							
Browns Ferry Unit 2	0500026091	0	1	0	0	0	0	0	4	0	4

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

COMMITMENTS

First, affected personnel will review the event investigation. This will be completed by August 1, 1991.

Second, affected Maintenance personnel will be trained on the TS definition of "operable" and on how Operations interprets the terms "inoperable" and "out of service". This will be completed by August 1, 1991.

Finally, affected surveillance and electrical maintenance instructions will be revised to require Operations to be notified of the time when TS related instrumentation is removed from service. This will be completed by December 31, 1991.

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

