

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Browns Ferry - Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 2 1 5 9					PAGE (3) 1 OF 0 2	
TITLE (4) Procedural Deficiency - Controls Necessary To Ensure the Operability of the Standby Gas Treatment System Charcoal Heaters																
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)			
									Browns Ferry - Unit 2				0 5 0 0 0 2 6 1 0			
0 6	2 8	8 5	8 5	0 2 9	0 1 0 8	3 0	8 5		Browns Ferry - Unit 3				0 5 0 0 0 2 9 1 6			
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)				20.405(c)				50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)		
0 0 0		20.405(a)(1)(ii)				50.36(c)(2)				X 50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)		
		20.405(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)						
		20.405(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)						
		20.405(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME										TELEPHONE NUMBER						
Stephen B. Jones										AREA CODE 2 0 1 5 7 1 2 9 1 - 2 1 5 1 3 1 8						
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS						
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)

During a review of the control circuitry for the standby gas treatment system (SBGT) on June 28, 1985, a deficiency in the procedural controls, necessary to ensure that the charcoal heaters would remain operable following system operation, was discovered. Following system operation, the control switch to the heaters must be manually reset. The charcoal bed heaters ensure that the iodine removal capability of the beds is not reduced as a result of excessive moisture buildup during periods of time that the standby gas treatment system is not in service.

Immediate corrective action was implementation of procedural controls requiring the heater switch to be manually reset. An engineering evaluation has subsequently determined that the running of the SBGT trains for 10 hours each month as required by technical specifications is sufficient to ensure moisture buildup in the charcoal beds does not occur. Based on this evaluation, the charcoal bed heaters will be removed.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Browns Ferry - Unit 1	05000259	85	029	01	02	OF	02

TEXT (If more space is required, use additional NRC Form 365A's) (17)

Units 1 and 2 were in a refueling outage, and unit 3 was in an extended maintenance outage.

During a review of the control circuitry for the standby gas treatment system (SBGT) on June 28, 1985, a deficiency in the procedural controls necessary to ensure that the charcoal bed heaters operate was verified. The control switch for the charcoal heaters is an on/off with a spring return to normal position and must be manually reset following system operation. Procedural controls specifying that this switch be reset following system operation were not in place.

On August 2, 1985, it was discovered that the "C" train of SBGT had four of the six charcoal bed heater elements defective. Insulation on the wiring to the elements had been burned allowing a short circuit of the heater element.

During operation of the SBGT system the relative humidity heaters ensure that the relative humidity of the exhaust flow is less than 70 percent. This ensures that the iodine removal capability of the charcoal beds is not reduced due to the introduction of moisture from the exhaust stream. During periods of time that the SBGT system is not in operation, small bed heaters are provided that maintain the bed temperature at approximately 125°F. This is to ensure excessive moisture buildup in beds does not occur during system inactivity.

Technical specifications require each train of SBGT to be run 10 hours a month with the relative humidity heaters on. An engineering evaluation has confirmed that this is adequate to ensure moisture buildup in the charcoal beds does not occur. Therefore, the operability of the SBGT was not affected by the failure of heater elements.

Immediate corrective action was implementation of procedural controls requiring the heater switch to be reset following operation of the SBGT trains. Based on the engineering evaluation, the heaters have been tagged out on all 3 trains until they can be permanently removed. Section 5.3.3.7 of the Final Safety Analysis Report will be revised to reflect this new configuration and correct an error regarding the existence of low temperature alarms.

Responsible Plant Section - N/A

Previous Events - None

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

August 30, 1985

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

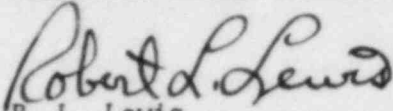
Dear Sir:

TENNESSEE VALLEY AUTHORITY - BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 1 -
DOCKET NO. 50-259 - FACILITY OPERATING LICENSE DPR-33 - REPORTABLE
OCCURRENCE REPORT BFRO-50-259/85029

The enclosed report provides details concerning procedural deficiency -
controls necessary to ensure the operability of the standby gas
treatment system charcoal heaters. This report is submitted in
accordance with 10 CFR 50.73(a)(2)(vii).

Very truly yours,

TENNESSEE VALLEY AUTHORITY



R. L. Lewis
Acting Plant Manager
Browns Ferry Nuclear Plant

Enclosures

cc (Enclosures):
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Office of Inspection and Enforcement
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NRC Resident Inspector, BFN

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