

**LICENSEE EVENT REPORT**

Attachment to AECM-83/0458

Page 1 of 2

CONTROL BLOCK: 

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 (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1 | M S G G S I 2 | O O - O O O O O - O O 3 | 4 | 1 1 1 1 4 | 5

7 8 9 LICENSEE CODE 14 15 LICENSE NUMBER 25 26 LICENSE TYPE 30 57 CAT 58

CON'T

REPORT SOURCE: 01 L 6 0 5 0 0 0 4 1 6 7 0 7 1 9 8 3 8 0 8 1 6 8 3 9

DOCKET NUMBER: 80 61 88 89 74 75 80

EVENT DATE: 74 75 80

REPORT DATE: 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | On July 19, 1983, an inadvertent LOCA signal was received in the  
0 3 | Division II LOCA Logic. The RHR "B" pump which was in shutdown cooling  
0 4 | mode isolated as required but the breaker attempted to close repeatedly  
0 5 | following the isolation. The event had no affect on the health and  
0 6 | safety of the public and did not constitute a threat to plant safety.  
0 7 | This is reported pursuant to T.S.6.9.1.13.b. The event was also  
0 8 | reported pursuant to 10 CFR 50.72.

SYSTEM CODE S F (11)		CAUSE CODE E (12)		CAUSE SUBCODE A (13)		COMPONENT CODE C K T B R K (14)				COMP. SUBCODE X (15)		VALVE SUBCODE Z (16)																	
EVENT YEAR 8 3 (17)		SEQUENTIAL REPORT NO. 0 8 5 (18)		OCCURRENCE CODE 0 3 (19)		REPORT TYPE L (20)		REVISION NO. 0 (21)		ACTION TAKEN A (22)		FUTURE ACTION Z (23)		EFFECT ON PLANT Z (24)		SHUTDOWN METHOD Z (25)		HOURS 0 0 0 0 (26)		ATTACHMENT SUBMITTED Y (27)		NPRD-4 FORM SUB. N (28)		PRIME COMP. SUPPLIER N (29)		COMPONENT MANUFACTURER I 2 0 3 (30)			

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The LOCA signal was the result of the troubleshooting investigation from  
1 1 the previous LOCA signal the night before (see LER 83-084). The cause of  
1 2 the cycling RHR "B" pump breaker was due to a defective breaker anti-  
1 3 pumping device. The device was replaced. This is submitted as a final  
1 4 report.

FACILITY STATUS									% POWER						OTHER STATUS							METHOD OF DISCOVERY								DISCOVERY DESCRIPTION									
1 5 6 28									0 0 0 29 NA						A 31								Oper. Event, Operator Observation 32																
ACTIVITY CONTENT									RELEASED OF RELEASE						AMOUNT OF ACTIVITY															LOCATION OF RELEASE									
1 6 7 33									2 34 NA														NA 36																
PERSONNEL EXPOSURES									NUMBER TYPE						DESCRIPTION																								
1 7 8 9									0 0 0 37 2 38 NA																														
PERSONNEL INJURIES									NUMBER DESCRIPTION																														
1 8 9									0 0 0 40 NA																														
LOSS OF OR DAMAGE TO FACILITY									TYPE DESCRIPTION																														
1 9 10									2 42 NA																														
PUBLICITY									ISSUED DESCRIPTION																					NRC USE ONLY									
2 0 11									44 NA																					68 69									

NAME OF PREPARER M. V. Rohrer

PHONE

SUPPLEMENTARY INFORMATION TO  
LER 83-085/03 L-0

Mississippi Power & Light Company  
Grand Gulf Nuclear Station - Unit 1  
Docket No. 50-416

Technical Specification Involved: 3.5.2 and 3.4.9.2  
Reported Under Technical Specification: 6.9.1.13.b

Event Narrative:

On July 19, 1983, while troubleshooting problems stemming from a previous LOCA signal the night before, an unanticipated activation of the Division II LOCA Logic occurred. While troubleshooting an E12-K21 relay, technicians were intending to jumper contacts T<sub>1</sub>-M<sub>1</sub> of relay E12-K94B, while in actuality they jumpered from T<sub>1</sub> to B<sub>4</sub> of relay K94B. This put 125 Vdc across the coil of K94B and energized it. Normally this relay would be energized by a LOCA signal only.

All intended results occurred, although, the RHR "B" pump breaker experienced some problems. The supply breaker to RHR pump "B" tripped from no suction path available as a result of an isolation (RHR "B" in shutdown cooling) and then attempted to reclose due to the LOCA signal, but since no suction path was available, it again tripped. This sequence then repeated itself a number of times due to a failure of a device internal to the breaker called an anti-pumping device.

The anti-pumping device was verified to be defective and was subsequently replaced. As a result of the problems experienced with the Division II ECCS pump and the inability to explain the turn of events, conservative action was taken and Division I and II ECCS pumps were declared inoperable at that time. This, in turn, resulted in the inability to meet the requirements of Technical Specification 3.4.9.2 for shutdown cooling loops operable. Action Statement 2 was entered for no loops in operation. Loop "B" of RHR was again restored to shutdown cooling on July 20, 1983, at 1230 hours, and a new LCO was entered for having only one loop in operation with RWCU demonstrated as the backup means of decay heat removal.



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

August 19 1983 10 1

NUCLEAR PRODUCTION DEPARTMENT

Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., N.W., Suite 2900  
Atlanta, Georgia 30303

Attention: Mr. J. P. O'Reilly, Regional Administrator

Dear Mr. O'Reilly:

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-13  
File 0260/L-835.0  
Inadvertent LOCA Signal  
Received in Division II  
LOCA Logic  
LER 83-085/03 L-0  
AECM-83/0458

On July 19, 1983, an inadvertent LOCA signal was received in the Division II LOCA Logic. The RHR "B" pump which was in shutdown cooling mode isolated as required, but the breaker attempted to close repeatedly following the isolation. Due to problems experienced with the Division II ECCS pumps and the inability to explain the sequence of events involving the RHR "B" pump breaker at the time, Division I and II ECCS pumps were declared inoperable. This is reported pursuant to Technical Specification 6.9.1.13.b. The event was also reported pursuant to 10 CFR 50.72. Attached is LER 83-085/03 L-0 with Supplementary Information.

Yours truly,

*Sam H. Hobbs*

for

L. F. Dale  
Manager of Nuclear Services

EBS/SHH:sap  
Attachment

cc: (See Next Page)

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## MISSISSIPPI POWER &amp; LIGHT COMPANY

cc: Mr. J. B. Richard (w/a)  
Mr. R. B. McGehee (w/o)  
Mr. T. B. Conner (w/o)  
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