

**LICENSEE EVENT REPORT**

CONTROL BLOCK: 

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

0 1 M S G G S 1 2 0 0 - 0 0 0 0 0 - 0 0 3 4 1 1 1 1 4 5

LICENSEE CODE LICENSE NUMBER LICENSE TYPE CAT

CON'T

0 1 8  
REPORT SOURCE 6 0 5 0 0 0 4 1 6 7 1 0 2 1 8 3 8 1 2 2 2 8 3 9  
DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On October 21, 1983, SSW Cooling Fan C003D tripped breaker 52-16506 on  
03 several start attempts. SSW "B" was declared inoperable and an LCO was  
04 entered pursuant to T.S.3.7.1.3 and 3.7.1.1. This also resulted in Shut-  
05 down Cooling Loop "B" being declared inoperable at 0430 hours on  
06 October 22 when the reactor pressure was lowered to 135 psig in mode 3.  
07 The Reactor Water Cleanup System was demonstrated as an alternate method  
08 of decay heat removal in accordance with T.S.3.4.9.1.

0 9  
7 8

SYSTEM CODE  
W E 11  
9 10

CAUSE CODE  
B 12  
11

CAUSE SUBCODE  
B 13  
12

COMPONENT CODE  
C K T B R K 14  
13 16

COMP SUBCODE  
A 15  
19

VALVE SUBCODE  
Z 16  
20

17 LER RO REPORT NUMBER  
EVENT YEAR  
B 3 21 22

SEQUENTIAL REPORT NO.  
1 6 6 24 26

OCCURRENCE CODE  
0 3 28 29

REPORT TYPE  
X 30

REVISION NO.  
1 32

ACTION TAKEN  
A 18 33

FUTURE ACTION  
Z 19 34

EFFECT ON PLANT  
Z 20 35

SHUTDOWN METHOD  
Z 21 36

HOURS  
0 0 0 0 37 40

ATTACHMENT SUBMITTED  
Y 23 41

NPRD-4 FORM SUB.  
N 24 42

PRIME COMP. SUPPLIER  
A 25 43

COMPONENT MANUFACTURER  
B 4 5 5 26 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The ITE solid state trip device installed on the breaker was defective.

1 1 The manuf. incorrectly installed a 30VDC 22uF capacitor in lieu of a

1 2 required 50VDC capacitor. All C205 capacitors in ESF breakers have been

1 3 inspected and modified trip units have been installed in nonconforming

1 4 breakers. Some spares are awaiting shipment for rework.

6 9  
FACILITY STATUS      % POWER      OTHER STATUS (30)      METHOD OF DISCOVERY      DISCOVERY DESCRIPTION (32)

1 5 8 (28)      0 0 3 (29)      NA      A (31)      Abnormal Operation

7 8 9      10 11 12 13      44      45 46 47 48 49 50

ACTIVITY CONTENT  
RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 6 2 (33) 2 (34) NA

7 8 9 10 11 44

NA 45 80

PERSONNEL EXPOSURES									
NUMBER			TYPE	DESCRIPTION					
1	7	0	0	0	37	7	38	NA	

PERSONNEL INJURIES		8401030233 831222	
NUMBER	DESCRIPTION	PDR ADOCK 05000416	
1 0 0 0	NA	S PDR	

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16		17		18		19		20		21		22		23		24		25		26		27		28		29		30	
LOSS OF OR DAMAGE TO FACILITY (43)																																																											
TYPE			DESCRIPTION																																																								
1	9	2	42	NA																																																							

PUBLICITY  
 ISSUED DESCRIPTION (45)  
 2 0 N (44) NA  
 7 8 9 10 68 69 80  
 NRC USE ONLY

NAME OF PREPARER R.W. Byrd

**PHONE**

Supplementary Information to  
LER 83-166/03 X-1

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

Technical Specification Involved: 3.7.1.1, 3.7.1.3, and 3.4.9.1  
Reported Under Technical Specification: 6.9.1.13.b

Event Narrative

This is an update to a previous report submitted on November 21, 1983. The event for which the report was submitted is described in the following paragraphs.

On October 21, 1983, at approximately 1215 hours several attempts to start Standby Service Water Cooling Fan C003D failed. Breaker 52-16506 repeatedly tripped. SSW Loop B was declared inoperable and a Limiting Condition for Operation (LCO) was entered pursuant to Technical Specification 3.7.1.3 and Technical Specification 3.7.1.1. A maintenance work authorization was initiated to investigate the problem.

On October 22 at 0430 hours reactor pressure dropped below 135 psig while in mode 3. Technical Specification 3.4.9.1 requires Shutdown Cooling to be operable with this condition. Since the "B" loop SSW system was inoperable, Shutdown Cooling Loop "B" was also inoperable. Therefore, a Limiting Condition for Operation was entered pursuant to Technical Specification 3.4.9.1.

The investigation revealed that the ITE (Brown Boveri) solid state trip unit on the breaker had a 30VDC 22uF capacitor installed in the place of a 50VDC 22uF capacitor. Capacitor breakdown may have caused tripping of the breaker before the setpoint was reached. The trip unit was replaced and the system was restored at 1200 hours on October 22. The part no. is 609902-T106; serial no. 27676; type SS3G 600 amp.

Additional investigations were conducted as a result of this finding. C205 capacitors in seventy affected ESF breakers were inspected for proper voltage rating. Of these, 13 breakers and 3 of 7 installed spares were in conformance. Modified trip units have been installed in the 50 nonconforming breakers. All work on ESF breakers is complete with the exception of spares awaiting shipment to Brown Boveri for rework. This is reported pursuant to Technical Specification 6.9.1.13.b and is submitted as a final report.



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

December 22, 1983

NUCLEAR PRODUCTION DEPARTMENT

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  
Update Report - Standby Service  
Water Loop "B" Declared  
Inoperable  
LER 83-166/03 X-1  
AECM-83/0809

This letter submits an update to a previous report submitted on November 21, 1983. The event for which the report was submitted occurred on October 21, 1983, when Standby Service Water (SSW) cooling fan C003D tripped breaker 52-16506 on several start attempts. SSW Loop "B" was declared inoperable and a Limiting Condition for Operation (LCO) was entered pursuant to Technical Specification 3.7.1.3 and 3.7.1.1. This also resulted in Shutdown Cooling Loop "B" being declared inoperable and entry into an LCO for Technical Specification 3.4.9.1. This was reported pursuant to Technical Specification 6.9.1.13.b.

Our investigation into the cause of the event and corrective actions to prevent event recurrence are complete. This is a final report. Attached is LER 83-166/03 X-1 with Supplementary Information.

Yours truly,

L. F. Dale  
Manager of Nuclear Services

EBS/SHH:rg  
Attachment

cc: See next page

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MISSISSIPPI POWER & LIGHT COMPANY

AECM-83/0809

Page 2

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