

NRC Form 366  
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)

Grand Gulf Nuclear Station - Unit 1

DOCKET NUMBER (2)

0 5 0 0 0 4 1 6

PAGE (3)

1 OF 0 2

TITLE (4)

Loss of BOP Power Due to Breaker Fault

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	3	0	9	8	4	8	4	0	1	1	
0	3	0	9	8	4	8	4	0	0	0	
OPERATING MODE (9)			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)								
4			20.402(b)			20.405(c)			X	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10)			20.405(a)(1)(i)			50.36(a)(1)			X	50.73(a)(2)(v)	73.71(c)
0 0 0			20.405(a)(1)(ii)			50.36(a)(2)				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

Jerry L. Parker/Licensing Engineer

TELEPHONE NUMBER

AREA CODE

6 0 1 4 3 7 - 2 1 4 9

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)

YES (If yes, complete EXPECTED SUBMISSION DATE)		NO		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/>		<input checked="" type="checkbox"/>					

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

Arcing occurred in a 500KV switchyard breaker as it was returned to service after maintenance was performed on the breaker. This caused a differential current in the unit's Service Transformer which tripped the switchyard breaker supplying power to the unit's BOP loads and one ESF transformer. As a result, Shutdown Cooling isolated, RWCU isolated, the Auxiliary Building isolated, SBGT initiated, Control Room Fresh Air initiated, reactor scram initiated and the HPCS Diesel Generator started.

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NRC Form 365A  
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6 8 4	—	0 1 1	—	0 0	0 2	OF 0 2

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

At 1329 on March 9, 1984, while the plant was in Cold Shutdown, a loss of power to the unit's BOP loads and one ESF transformer was experienced. Extensive maintenance had been performed on one of the 500KV switchyard breakers including removal, cleaning, and refurbishment of internal parts. As the disconnects were closed to return the breaker to service, arcing occurred in the "B" phase high pressure tubing. This caused a differential current in the unit's Service Transformer which tripped the breaker supplying it. As a result Shutdown Cooling isolated, RWCU isolated, the SBTG initiated, Control Room Fresh Air initiated, reactor scram initiated, and the HPCS Diesel Generator started.

Shutdown Cooling was restored in 19 minutes and the Service Transformer was returned to service in 31 minutes. Due to the status of the plant (Cold Shutdown), there were no safety consequences of this event.

Although it is apparent that the arcing within the breaker was caused by the overhaul which had been performed on it, when it was dismantled for inspection no apparent reason for the fault could be found. The "B" phase of the breaker is being completely overhauled again. The final retest will be to observe the breaker in operation. The 500KV breaker is manufactured by Siemens Allis. Since this fault occurred immediately and no other breakers that have been overhauled have had a similar problem, this is considered an isolated event caused by an undiscovered error in the overhaul. This is a final report.



MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

April 3, 1984

NUCLEAR PRODUCTION DEPARTMENT

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

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-13  
File: 0260/L-835.0  
Loss of BOP Power Due to Breaker  
Fault  
LER 84-011-0  
AECM-84/0199

Attached is Licensee Event Report (LER) 84-011-0 which is a final report.

Yours truly,

L. F. Dale  
Manager of Nuclear Services

EBS/SHH:rg  
Attachment

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

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