

NRC Form 200  
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

## 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 3
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TITLE (4) Fire Barriers Omitted From Safe-Shutdown Related Cables
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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)	
1	1	0	2	8	4	0	5	0	0	3	
8	4	8	4	0	5	0	8	1	5	8	

OPERATING MODE (9) 1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.71: (Check one or more of the following) (11)									
	20.402(b)		20.406(a)		20.736(a)(2)(iv)		73.71(b)			
	20.406(a)(1)(i)		20.38(a)(1)		20.736(a)(2)(v)		73.71(c)			
	20.406(a)(1)(ii)		20.38(a)(2)		20.736(a)(2)(vi)		<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Part, NRC Form 388A)			
	20.406(a)(1)(iii)		<input checked="" type="checkbox"/> 20.736(a)(2)(i)		20.736(a)(2)(viii)(A)		Special Report & License Sect.2(F)			
	20.406(a)(1)(iv)		<input checked="" type="checkbox"/> 20.736(a)(2)(ii)		20.736(a)(2)(viii)(B)					
POWER LEVEL (10) 0 1 0 4	20.406(a)(1)(v)		20.736(a)(2)(iii)		20.736(a)(2)(ix)					

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME Ronald W. Byrd/Licensing Engineering		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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO				

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

On October 15, 1984, during a special review, certain Unit 1 safe-shutdown related cable raceways were found with omitted fire rated barriers. Although these fire barriers were required by 10 CFR 50 Appendix R and the plant FSAR, they were not included in construction documents. Two areas containing these cable raceways were located on the Unit 2 side of the Control Building where the fire detection system had not been under surveillance. Due to the uncertainty of the location of these raceways, fire watches in Unit 2 had not been established in a timely manner.

Subsequently, as a result of the continuing special review relative to Appendix R, additional Unit 1 safe-shutdown related cables were identified on December 12, 1984, as not being in compliance with Appendix R requirements. Also, other Appendix R discrepancies were identified on May 17 and 18, 1985. A one hour fire wrap required to be installed along certain raceways was found broken at various supports. One raceway in the Division I Switch Gear Room was found without a one hour fire barrier installed. Nonconformance documents were written for correction of the deficiencies. Fire watches will be maintained until fire protection is installed.

On July 12, 1985, additional Appendix R discrepancies were identified. Three 277 system safe shutdown cables were found to have been routed through fire zones without the required 3-hour fire wrap. Nonconformance documents were initiated to correct the deficiencies and fire watches will be maintained as required.

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NRC Form 288A  
(9-83)

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3180-0104

EXPIRES 8/31/86

FACILITY NAME (1)  Grand Gulf Nuclear Station - Unit 1	DOCKET NUMBER (2)  0500041684	LER NUMBER (3)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		84	0500	03	02	OF	03

TEXT (If more space is required, use additional NRC Form 288A's) (17)

This is an update to a previous revision submitted June 17, 1985. Changes to the previous report are indicated by a bar in the right hand margin.

On October 15, 1984, during an ongoing Fire Protection System review relative to 10 CFR 50 Appendix R requirements, the design engineering group identified certain Unit 1 safe-shutdown related cable raceways with omitted fire barriers. A Material Nonconformance Report (MNCR) was initiated by engineering and reviewed by the Operations Shift Superintendent for effects on operation. At 1600 hours on October 15, a Limiting Condition for Operation (LCO) report was written to track the hourly fire watch required by Technical Specification 3.7.7. Further information was later required to determine reportability under 10 CFR 50.73. On November 2, 1984, it was determined that this condition was outside the design basis of the plant and it was reported accordingly.

The affected safe-shutdown related cables were those of redundant trains unprotected by fire barriers. This condition is not in accordance with Appendix R requirements. Systems affected were: The Standby Service Water System (SSW), the SSW remote shutdown flow recorder, a Residual Heat Removal (RHR) jockey pump, the Standby Diesel Generator fuel oil transfer pump, the Reactor Core Isolation Cooling System, SSW pump house ventilation, Safeguard Switchgear and Battery Room ventilation, ECCS pump room ventilation, and power feeders or control cables to ESF load centers.

After conferring with Engineering, on November 7, 1984, Operations discovered that two of the areas containing the subject cables were located on the Unit 2 side of the Control Building. It was later determined that the cables in one of the two areas met Appendix R requirements. The fire detection equipment in the Unit 2 areas had not been under surveillance since Technical Specifications did not address these. Also, no fire watches had been established in these areas. Operations, when reviewing the MNCR on October 15, had assumed the cables were located in Unit 1. Fire watches in the Unit 1 Auxiliary and Control Buildings were already in effect due to the nonconforming fire doors reported in Special Report 84-012/2, AECM-84/0478.

Continuous fire watches were established in the Unit 2 areas after discovery of the condition. Design Change documents have been initiated to install the required fire barriers.

An engineering investigation revealed four more areas in Unit 2 which contained Unit 1 safety related components. However, these components were not safe-shutdown cables. The fire detectors in the areas were successfully tested on November 12 and 13, 1984. The fire detectors are being administratively controlled as Technical Specification required instruments until a revised Technical Specification is issued.

NRC Form 388A  
(9-83)

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3180-0104

EXPIRES 9/31/85

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

TEXT (If more space is required, use additional NRC Form 388A's) (17)

In summary, a total of six areas containing Unit 1 safety related equipment were found located on the Unit 2 side of the Control Building. The fire detection equipment in the Unit 2 areas had not been under surveillance. One of the six areas contained safe-shutdown cable raceways with omitted fire barriers.

As a result of the continuing special review relative to Appendix R, additional Unit 1 safe-shutdown related cables were identified on December 12, 1984, as not being in compliance with Appendix R requirements. These additional discrepancies were limited to Unit 1. Appropriate nonconformance documents were initiated and the appropriate Technical Specification actions were carried out. Systems affected by these deficiencies were Containment and Drywell Instrumentation, Emergency Switchgear and Battery Room Ventilation, the Standby Diesel Generators and Residual Heat Removal.

Other Appendix R discrepancies were identified on May 17 and 18, 1985. A one hour fire wrap required to be installed along certain raceways was found broken at various supports. The wrap was installed on either side of the supports but did not always include the portions where support members made contact with the raceways. Also, one raceway in the Division I Switchgear Room was found without a one hour fire barrier installed. Nonconformance documents were written for correction of the deficiencies. Fire watches will be maintained until the appropriate fire protection is installed.

On July 12, 1985, Nuclear Plant Engineering identified additional Appendix R discrepancies which were subsequently determined reportable on July 17, 1985. Three Z77 system safe shutdown cables were found to have been routed through fire zones without the required 3-hour fire wrap. Nonconformance documents were initiated to correct the deficiencies and fire watches will be maintained as required. This is submitted as a final report.



# MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

P. O. BOX 1640, JACKSON, MISSISSIPPI 39215-1640

August 15, 1985

NUCLEAR LICENSING & SAFETY DEPARTMENT

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

CORRECTED COPY

LER number should be  
84-050-3 rather than  
85-050-3.

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-29  
File: 0260/L-835.0  
Fire Barriers Omitted From  
Safe-Shutdown Related Cables  
LER 84-050-3  
AECM-85/0249

Attached is Licensee Event Report (LER) 84-050-3 which is a final report.

Yours truly,

L. F. Dale  
Director

RM/EBS/SHH:vog  
Attachment

cc: Mr. J. B. Richard (w/a)  
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Mr. N. S. Reynolds (w/a)  
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