

NRC Form 308  
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMS NO. 3150-0104

EXPIRES: 8/31/86

## 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								
TITLE (4) Fire Rated Seals in Control Room Envelope Found Violated																						
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 NA				DOCKET NUMBER(S) 0 5 0 0 0									
0	2	1	4	8	6	8	6	0	0	6	0	0	3	1	7	8	6	0	5	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)				50.73(a)(2)(iv)				73.71(b)								
POWER LEVEL (10)		0 0 0				20.405(a)(1)(i)				50.73(a)(2)(v)				73.71(c)								
		20.405(a)(1)(ii)				50.73(a)(2)(vi)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 305A)								
		20.405(a)(1)(iii)				50.73(a)(2)(viii)(A)				50.73(a)(2)(viii)(B)												
		20.405(a)(1)(iv)				50.73(a)(2)(ix)				50.73(a)(2)(x)												
		20.405(a)(1)(v)																				
LICENSEE CONTACT FOR THIS LER (12)																						
NAME Ronald Byrd/Licensing Engineer										TELEPHONE NUMBER 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												
A	N/A	S/E/A/L	X	9/9/9	N																	
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)

On February 14, 1986, Field Engineering identified four (4) fire rated barriers located in the Unit 2 side of the Control Room boundary that did not conform to design requirements. Also, in an unrelated inspection on February 27, 1986, an unsealed conduit was found routed through a Control Building electrical chase penetration. These five (5) penetrations are reportable pursuant to 10CFR50.73(a)(2)(i)(B). Four (4) of these barriers had been in nonconformance for an undetermined time in the past by work activities that failed to ensure the conditions were identified, documented, restored, or fire watches established. One (1) of the nonconformances was created during construction work activities in 1981. Present programmatic controls are adequate to ensure that work activities identify, document, and restore opened penetration fire barriers and notify Operations personnel for establishing required fire watches. The nonconformances were documented on Material Nonconformance Reports which will track the restoration of the barriers.

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NRC Form 386A  
(9-83)

## 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 (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6	8 6	- 0 0 6	- 0 0	0 2	OF	0 3

TEXT (If more space is required, use additional NRC Form 386A's) (17)

## A. REPORTABLE OCCURRENCE

On February 14, 1986, during a walkdown inspection of Control Room boundary penetrations, Field Engineering identified fire barriers that did not conform to design requirements. Four (4) of these barriers had been violated during past work activities that did not ensure the conditions were documented, restored, or fire watches established. In an unrelated inspection on February 27, 1986, an open conduit was found in a Control Building electrical chase floor penetration. The failure to identify these conditions and maintain fire watches when the conditions were created is reportable pursuant to 10CFR50.73(a)(2)(i)(B).

## B. INITIAL CONDITIONS

The plant was in mode 4, Cold Shutdown, from February 12, 1986 to February 16, 1986 to replace a deteriorated recirculation pump seal.

## C. DESCRIPTION OF OCCURRENCE

On February 14, 1986, Field Engineering identified four (4) fire rated barriers in the Unit 2 side of the Control Room boundary that did not conform to design requirements. These findings were a result of a special inspection of all Control Room envelope penetrations being conducted because of damaged or degraded floor seals found on the Unit 2 side of the Control Room. The degraded floor seals were caused either by equipment drain condensation or by personnel standing on the seals. The degradation was not the direct result of any work activities. However, the four (4) nonconformances found on February 14, 1986, were created by work activities that failed to ensure the nonconforming barriers were identified, documented, restored or fire watches established as required by Technical Specification 3.7.7. These nonconformances are discussed below:

A cable had been removed leaving a 1/2 inch hole through two (2) penetration seals. A 3/4 inch conduit routed through another penetration was not sealed, i.e., not capped. It could not be determined how long these conditions had existed. In 1981, construction crews had routed a conduit through a wall leaving a 1/4 inch gap between the conduit and the wall. The penetration had not been assigned a penetration number.

In an unrelated inspection on February 27, 1986, a 1 inch conduit routed through a Control Building electrical chase floor penetration was found not sealed, i.e., not capped.

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TEXT (If more space is required, use additional NRC Form 306A's) (17)

A Limiting Condition for Operation (LCO) was entered under Technical Specification 3.7.7 after discovery of the conditions. However, hourly fire watches had been in effect in these areas since February 1, 1984 due to the fire door nonconformances reported in a letter to the NRC dated March 9, 1984.

## D. APPARENT CAUSE

Four (4) nonconformances were created at an undetermined time in the past by work activities that failed to ensure the nonconforming barriers were identified, documented, restored or fire watches established. One (1) of the nonconformances was created during construction work activities in 1981.

## E. SUPPLEMENTAL CORRECTIVE ACTION

Present programmatic controls have been reviewed and determined adequate to ensure that work activities identify, document, and restore opened penetration fire barriers and notify Operations personnel for establishing required fire watches. The nonconformances were documented on Material Nonconformance Reports (MNCRs) which will track the restoration of the barriers.

## F. SAFETY ASSESSMENT

The fire barriers on the Unit 2 side of the Control Room boundary also serve to maintain Control Room air pressure integrity. The nonconformances were not of sufficient size to cause the Control Room air pressure integrity to be below design parameters. In addition hourly fire watches were in effect since February 1, 1984.



MISSISSIPPI POWER & LIGHT COMPANY

*Helping Build Mississippi*

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

March 17, 1986

O. D. KINGSLEY, JR.  
VICE PRESIDENT - NUCLEAR OPERATIONS

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-29  
File: 0260/L-835.0  
Fire Rated Seals in Control  
Room Envelope Found Violated  
LER 86-006-0  
AECM-86/0075

Attached is Licensee Event Report (LER) 86-006-0 which is a final report.

Yours truly,

ODK:bms  
Attachment

cc: Mr. T. H. Cloninger (w/a)  
Mr. R. B. McGehee (w/a)  
Mr. N. S. Reynolds (w/a)  
Mr. H. L. Thomas (w/o)  
Mr. R. C. Butcher (w/a)

Mr. James M. Taylor, Director (w/a)  
Office of Inspection & Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dr. J. Nelson Grace, Regional Administrator (w/a)  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta St., N. W., Suite 2900  
Atlanta, Georgia 30323

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