

NRC Form 300
(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 I	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

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					
1	1	0	2	8	4	0	5	0	0	5	0	0	0	0
1	1	0	2	8	4	0	5	0	0	5	0	0	0	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

OPERATING MODE (9) 1	20.402(b)	20.406(c)	90.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 4	20.406(a)(1)(i)	90.36(a)(1)	90.73(a)(2)(v)	73.71(c)
	20.406(a)(1)(ii)	90.36(a)(2)	90.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)
	20.406(a)(1)(iii)	X 90.73(a)(2)(i)	90.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)	X 90.73(a)(2)(ii)	90.73(a)(2)(viii)(B)	
	20.406(a)(1)(v)	90.73(a)(2)(iii)	90.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Ronald W. Byrd/License 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)

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

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

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.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

TEXT (if more space is required, use additional NRC Form 366A's) (17)

This is an update to a previous report submitted December 3, 1984 for the events described below.

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 requested 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.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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Grand Gulf Nuclear Station - Unit 1	0 5 0 0 0 4 1 6 8 4	-	0 5 0	-	0 1	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.

The general area evaluations portion of the Appendix R review is now complete. The special review relative to Appendix R for the Control Room, Containment, and Drywell areas is continuing. This report is intended as a final submittal. However, a revision may be warranted if any further Appendix R discrepancies are identified.



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January 28, 1985

NUCLEAR LICENSING & SAFETY 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-29
File: 0260/L-835.0
Fire Barriers Omitted From
Safe-Shutdown Related Cables
LER 84-050-1
AECM-85/0006

Attached is Licensee Event Report (LER) 84-050-1 which is a final report.

Yours truly,

L. F. Dale
Director

EBS/SHH:vog
Attachment

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