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June 20, 1990

U.S. Nuclear Regulatory Commission
Mail Station P1-137
Washington, D.C. 20555

Attention: Document Control Desk

Gentlemen:

SUBJECT: Grand Gulf Nuclear Station
Unit 1
Docket No. 50-416
License No. NPF-29
Fire Doors Not Surveilled
Due To Inadequate
Procedures
LER 90-008
AECM-90/0117

Attached is Licensee Event Report (LER) 90-008 which is a final report.

Yours truly,

WTC:cg
Attachment

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NRC Form 308
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104
EXPIRES: 9/31/88

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 4		
TITLE (4) Fire Doors Not Surveilled Due To Inadequate Procedure																
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	5	2	1	9	0	0	0	8					0 5 0 0 0			
			THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8. (Check one or more of the following) (11)													
OPERATING MODE (9) 1			20.402(b)				20.406(c)				50.73(a)(2)(iv)				73.71(b)	
POWER LEVEL (10) 1 10 10			20.406(a)(1)(i)				50.36(a)(1)				50.73(a)(2)(v)				73.71(c)	
			20.406(a)(1)(ii)				50.36(a)(2)				50.73(a)(2)(vii)				OTHER (Specify in Abstract below and in Text, NRC Form 308A)	
			20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)					
			20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)					
			20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)					
LICENSEE CONTACT FOR THIS LER (12)																
NAME Riley Ruffin, Licensing Specialist										TELEPHONE NUMBER 6 0 1 4 3 7 - 2 1 6 7						
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)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR		
YES <input type="checkbox"/> 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 May 21, 1990, plant personnel discovered that a fire rated door required by Technical Specification 3/4.7.7 was not designated as a Technical Specification door in surveillance procedures. Upon this finding, a comprehensive review of the procedures which implement both Technical Specification and insurance surveillance requirements was conducted. The review identified three fire rated doors required to be surveilled by Technical Specification 4.7.7.2 which were not included in any surveillance procedures.

Upon identification of the deficiency, the actions required by the applicable Technical Specification were implemented. The applicable surveillances were performed which confirmed operability of the doors. The review of fire doors in the Control Building has been completed. Further reviews of fire doors in other safety-related areas are in progress. These reviews are scheduled to be completed by July 31, 1990.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (9)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Grand Gulf Nuclear Station	0 5 0 0 0 4 1 6	9 0	0 0 8	0 0	0 2	OF	0 4

TEXT (if more space is required, use additional NRC Form 255A's) (17)

A. Reportable Occurrence

On May 21, 1990 at 1000, it was discovered that surveillance procedures which are employed to meet Technical Specification and insurance requirements for fire doors, did not include three fire doors installed in fire rated walls between the Unit 2 Control Building and the Unit 2 Turbine Building. Since the requirements of Technical Specification 4.7.7.2 were not fully implemented by present surveillance procedures, this situation is reported pursuant to 10CFR50.73(a)(2)(i)(B).

B. Initial Condition

The plant was operating at approximately 100 percent power at the time of discovery.

C. Description of Occurrence

Technical Specification 4.7.7.2 requires fire doors in fire rated assembly penetrations to be verified operable by:

- o Performing a Channel Functional Test for each electrically supervised fire door once per 31 days.
- o Verifying each locked-closed fire door is closed once per 7 days.
- o Verifying doors with automatic hold-open and release mechanisms are free of obstruction once per 24 hours and performing a functional test of these mechanisms once per 18 months.
- o Verifying each unlocked fire door without electrical supervision is closed once per 24 hours.

On May 21, 1990, during an investigation by plant personnel, it was determined that fire door OC101, located in a fire rated wall between the Unit 2 Control Building and the Unit 2 Turbine Building, was not designated as a Technical Specification required door in surveillance procedures.

NRC Form 255A
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

#APPROVED OMB NO. 3150-0104

EXPIRES 8/31/88

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
Grand Gulf Nuclear Station	050004169	0	08	00	03	OF 04

TEXT (If more space is required, use additional NRC Form 255A's) (17)

As a result of this finding, a comprehensive review of the procedures which implement both Technical Specification and insurance surveillance requirements was conducted. The review identified a total of three fire rated doors required to be surveilled by Technical Specification 4.7.7.2 which were not included in surveillance procedures.

Additionally, nine other fire doors included in surveillance procedures were not designated as Technical Specification required but had been surveilled to meet Technical Specification and insurance requirements.

Upon identification of the deficiencies, the actions required by the applicable Technical Specifications were implemented. The applicable surveillances were performed which confirmed operability of the fire doors.

D. Apparent Cause

In 1982, all doors of concern were included in appropriate surveillance procedures. In 1983, the surveillance procedures were changed to distinguish all Technical Specification fire doors from insurance required fire doors. In this process, the three fire doors of concern were omitted from the surveillance procedure and nine doors included in the surveillance procedure were not identified as being required by the Technical Specifications. The errors were either due to an oversight or incorrect interpretation of the Technical Specification requirements.

E. Supplemental Corrective Actions

Surveillance Procedures 06-OP-SP64-D-0044 and 06-OP-SP64-W-0045, have been changed to incorporate the excluded fire doors as Technical Specification required fire doors. The review of fire doors in the Control Building has been completed. No additional discrepancies were identified. Further reviews of fire doors in other safety-related areas are in progress. These reviews are scheduled to be completed by July 31, 1990.

NRC Form 305A
(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	0500041690	—	008	—00	04	OF 04

TEXT (If more space is required, use additional NRC Form 305A's) (17)

F. Safety Assessment

The three doors which were not surveilled separate the Unit 2 side of the Control Building from the Unit 2 Turbine Building. Door OCT9 is located in a 3 hour fire rated wall on the 189 ft. elevation of the Control Building. Door OCT6 is located in a 3 hour fire rated wall on the 148 ft. elevation. Door OCT1 is located in a 3 hour fire rated wall on the 111 ft. elevation. An evaluation was conducted to determine the potential effects of a postulated fire in the Unit 2 Turbine Building which is assumed to propagate into any one of the areas protected by the fire doors. The evaluation concluded that the postulated fire would not have inhibited the ability to achieve and maintain cold shutdown as described in UFSAR Appendix 9C.