



November 6, 1990

W. T. Cottle

Vice President
Operations
Grand Gulf Nuclear Station

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
Secondary Containment Doors
Found Not Closed During
Refueling Outage
LER 90-018
AECM-90/0194

Attached is Licensee Event Report (LER) 90-018, which is a final report.

Yours truly,

RR/WTC:cg
Attachment

cc: Mr. D. C. Hintz (w/a)
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. H. O. Christensen (w/a)

Mr. Stewart D. Ebnetter (w/a)
Regional Administrator
U.S. Nuclear Regulatory Commission
Region II
101 Marietta St., N.W., Suite 2900
Atlanta, Georgia 30323

Mr. L. L. Kintner, Project Manager (w/a)
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Stop 11D21
Washington, D.C. 20555

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1): Grand Gulf Nuclear Station	DOCKET NUMBER (2): 0 5 0 0 0 4 1 6	PAGE (3): 1 OF 0 3
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TITLE (4):
Secondary Containment Doors Found Not Closed During Refueling Outage

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)
									NA		0 5 0 0 0 0
1	0	0 8 9 0	9 0	0 1 8	0 0	1 1	0 6	9 0			0 5 0 0 0 0

OPERATING MODE (9): 5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (11)									
POWER LEVEL (10): 0 0 1 0	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(e)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(e)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract Below and in Text, NRC Form 366A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
	<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)		TELEPHONE NUMBER	
NAME	AREA CODE	NUMBER	
Riley Ruffin / Licensing Specialist	6 1 0 1	4 3 7 1 2 1 9	

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NFRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NFRDS

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> 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)

During Refueling Outage Four and after secondary containment had been established to commence fuel moves, three incidents occurred where secondary containment doors were left open. The first two incidents did not occur during the handling of irradiated fuel, core alterations, or operations with a potential for draining the reactor vessel. The third incident occurred during the handling of irradiated fuel.

In each case, the breach in secondary containment is attributed to personnel error.

Following the third incident, access to/from secondary containment was limited to specific doors. Security personnel were posted at all times to ensure these doors are closed after each use.

The above corrective actions will continue to be utilized during future refueling outages until more viable means for secondary containment door control can be established.

GGNS believes the current procedural controls adequately emphasize the need to maintain doors in the closed position.

NRC Form 200A
(2-83)

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/03

FACILITY NAME (1) Grand Gulf Nuclear Station	DOCKET NUMBER (2) 0800041690	LER NUMBER (3)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		90	018	010	02	OF	03

TEXT (2 more copies & required, use additional NRC Form 200A's) (17)

A. Reportable Condition

On October 8, 1990, plant personnel observed Secondary Containment Door 1A201 not fully closed. On October 9, 1990, Secondary Containment Door 1A401 was observed not closed. On October 20, 1990, Secondary Containment Door 1A401 was found open. These three incidents occurred after secondary containment integrity had been established in order to commence refueling operations. This condition is prohibited by plant Technical Specifications and is reported pursuant to 10CFR50.73(a)(2)(i)(B).

B. Initial Condition

The plant was in Operational Condition 5, Refueling, at the time of the discoveries. Secondary containment integrity had been established to perform refueling operations for Refueling Outage 4.

C. Description of Occurrence

On October 8, 1990 while conducting a routine tour of the Auxiliary Building, Operations personnel discovered Secondary Containment Door 1A201 not fully closed. Upon discovery of the breach in secondary containment, the door was closed and the Control Room was notified. On the following day, October 9, 1990, Operations personnel discovered Secondary Containment Door 1A401 not closed. Upon discovery of the condition, the door was closed and the Control Room was notified. On October 20, 1990 during refueling operations, Secondary Containment Door 1A401 was found open. Upon discovery of the condition, the Control Room was notified and the appropriate actions for Technical Specification 3.6.6.1 were taken.

D. Apparent Cause

During outages, the number of personnel passing through secondary containment doors increases substantially. In the described events, the doors were inadvertently left open.

In each case, the breach in secondary containment is attributed to personnel error.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

E. Supplemental Corrective Action

Following the first two discoveries, roving Security personnel were required, once per 10 minutes, to verify all secondary containment doors, which are used for normal access, to be closed. This action would limit the time any door, which was not adequately closed, was open to under 10 minutes.

Following the third incident, access to/from secondary containment was further limited to specific doors. These doors were posted at all times with Security personnel to ensure doors are closed after each use. Other normal access doors have been deactivated and labeled to prevent use. Doors not used for normal access to/from secondary containment are verified closed by roving Security personnel during their hourly building tours.

The above corrective actions will continue to be utilized during future refueling outages until more viable means for secondary containment door control can be established.

GGNS believes the current procedural controls adequately emphasize the need to maintain doors in the closed position.

F. Safety Assessment

After further investigations, it was determined that the handling of irradiated fuel in primary and secondary containment, core alterations and operations with the potential for draining the reactor vessel were not in progress at the time of the first two incidents.

The third incident occurred with the handling of irradiated fuel in progress. The doors were previously being verified closed once per ten minutes. The last verification on door 1A401 was performed approximately eight minutes before the door was discovered open.