



ENTERGY

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November 12, 1992

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

SUBJECT: Grand Gulf Nuclear Station  
Unit 1  
Docket No. 50-416  
License No. NPF-29  
Noncompliance with License NPF-29 Condition 2.C(25)(b)  
LER 92-018-00

GNRO-92/00141

Gentlemen:

Attached is Licensee Event Report (LER) 92-018 which is a final report.

Yours truly,

WTC/BAB  
attachment

cc: Mr. D. C. Hintz (w/a)  
Mr. J. L. Mathis (w/a)  
Mr. R. B. McGehee (w/a)  
Mr. N. S. Reynolds (w/a)  
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U.S. Nuclear Regulatory Commission  
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## FACILITY NAME (3)

DOC K E T NUMBER (2)

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Grand Gulf Nuclear Station

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TABLE 10

Noncompliance with License NPF-29 Condition 2.C(25)(b)

EVENT DATE (b)			LER LABEL (b)		REPORT DATE (b)			OTHER FACILITIES INVOLVED (b)										
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES					DOCKET NUMBER(S)				
10	13	92	2	018	00	11	12	92						05000				
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5 (Check one or more of the following) (1)																		
OPERATING MODE (b)			20.402(b)			20.406(c)			50.73(a)(2)(iv)					73.71(b)				
POWER LEVEL (b)			20.406(a)(1)(i)			50.36(a)(1)			50.73(a)(2)(iv)					73.71(a)				
11010			20.406(a)(1)(ii)			50.36(a)(2)			50.73(a)(2)(iv)					X OTHER (Specify in Abstract below and in Text: NRC Form 204)				
			20.406(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(iv)(i)(A)					License Condition 2.C(25)(b)				
			20.406(a)(1)(iv)			50.73(a)(1)(i)			50.73(a)(2)(iv)(B)									
			20.406(a)(1)(v)			50.73(a)(2)(ii)			50.73(a)(2)(iv)									

LICENSEE CONTACT FOR THIS LEH (12)

[illegible]

FELDERHOFF, R. and J. M. BARNES. 1991.

Bruce A. Burke, Licensing Engineer

AREA CODE

6	0	1	4	3	7	-	6	3	3	3
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT: 13

CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NFRDS		CAUSE	SYSTEM	COMPONENT	MANUFAC TURER	REPORTABLE TO NFRDS	

SUPPLEMENTAL REPORT EXPECTED 114

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MONTH	DAY	YEAR
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YES ☐ NO ☐ COMPLETE EXPECTED SUBMISSION DATE \_\_\_\_\_

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**ABSTRACT** 1,200 words. A approximately fifteen single aspect typewritten copy. 16

Failure to roll the Division 1 emergency diesel generator (DG 11) in accordance with Grand Gulf Nuclear Station (GGNS) Facility Operating License NPF-29 Condition 2.C(2<sup>nd</sup>) occurred on October 13, 1992. DG 11 and DG 12 are required to be rolled via the airstart system after four hours but no later than eight hours following shutdown. DG 11 and DG 12 are maintained by Transamerica Delaval, Inc.

The cause of this event was the lack of an effective method for triggering required air rolls. Corrective action for this event amended the four hour requirements section of the operator rounds to include a specific item to trigger and track required rolls following DG runs. Additionally, Operations staff has been informed of this event to ensure that all are aware of the importance and time restrictions regarding Facility Operating License NPF-29 Condition 2.C(25)(b).

The late roll of DG 11 did not compromise plant safety. The delinquent air roll found DG 11 acceptable. Health and safety of the general public were not compromised.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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

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

**A. Reportable Occurrence**

Failure to roll the Division 1 emergency diesel generator (DG 11) [EK] in accordance with Grand Gulf Nuclear Station (GGNS) Facility Operating License NPF-29 Condition 2.C(25)(b) occurred on October 13, 1992. This event is reportable per Facility Operating License NPF-29 Condition 2.F.

**B. Initial Conditions**

The plant was in Operational Condition 1 at approximately 100 percent power with reactor water at approximately 538 degrees F and 1033 psig. DG 11 had been shut down after a routine surveillance test was terminated three minutes after the start. The test was terminated because a starting light on the local panel did not illuminate. The starting light is used for determining acceleration time for inservice inspection (ISI) data. DG 11 and DG 12 are required to be rolled via the airstart system after four hours but no later than eight hours following shutdown. DG 11 and DG 12 are manufactured by Transamerica Delaval, Inc.

**C. Description of Occurrence**

DG 11 was started on October 13, 1992 at 0552 hour for routine surveillance testing. DG 11 was shut down approximately three minutes after the start because a starting light on the local panel did not illuminate. Operators decided to terminate the surveillance based on the need to restart DG 11 in order to obtain the required ISI data. A work order was initiated for the failed starting light. Special Report 92-007, which describes the invalid failure due to the failed starting light, is being submitted separate from this report.

At 0700 hour, the operating crew conducted shift turnover with the relief crew. Turnover for control room personnel included information that the attempt had been made to perform the surveillance run of DG 11, that the red starting light had failed to illuminate resulting in the acceleration time being missed, and that DG 11 was shut down three minutes after the start. Turnover information outlined efforts for troubleshooting the light and plans to perform the surveillance run. Details regarding the required post-run air roll were communicated to the Control Room Operator (CRO) relief, and the open DG 11 surveillance and start log paperwork were pointed out to the CRO as well.

At approximately 0830 hour, the Operations Shift Supervisor (SS) approved starting of a Maintenance I&C work order to troubleshoot the starting light. At 1000 hour, I&C technicians reported to the SS that the light bulb had burned out and was replaced, but that pneumatic controls in the local cabinet were leaking and could pose additional problems.

The leaking controls were investigated by the system engineer (SE). Operations staff contacted the SE later to schedule the DG 11 test, but the leaking pneumatics had not been assessed yet. At 1250 hour, SE contacted SS and recommended that the leaking components be repaired.

NRC Form 3054  
(5-83)

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 6/31/88

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Grand Gulf Nuclear Station					OF 0 3

TEXT (If more space is required, use additional NRC Form 3054's) (17)

As repairs would necessitate a DG 11 outage, SS referred SE to the 1300 hour work planning meeting for prioritization and scheduling of the work since there was no immediate operability concern.

After the 1300 hour meeting, SE and the Operations Work Control Coordinator (WCC) met in the control room to discuss the matter with the SS. At 1415 hour, WCC along with SE and the Operations Shift Superintendent decided to schedule a DG 11 outage for the next morning and defer the surveillance run until the work was completed. Operations personnel on-shift had anticipated restarting the DG 11 surveillance until this point in time.

At 1510 hour while performing shift turnover, the CRO discovered that DG 11 had not been rolled within the eight hour time limit. The offgoing CRO noticed the incomplete DG 11 start log on a movable podium between control room panels and brought it to the attention of the Operations Plant Supervisor. Direction was then given to air roll DG 11, which was completed at 1539 hour.

#### Apparent Cause

The cause of this event was the lack of an effective method for triggering required air rolls. Visual aids that previously served to remind the shift of required air rolls include a status board behind the Shift Superintendent's desk and retention of the open DG start log on a hanger behind the CRO desk. Both of these aids had been utilized with good success. However, since DG 11's run was curtailed due to the burned out light and restart seemed imminent, operators did not perform the routine of updating the status board and the DG start log was left in an inconspicuous location between panels.

#### E. Corrective Action

Corrective action for this event amended the four hour requirements section of the operator rounds procedure (06-OP-1000-D-0001) to include a specific item to trigger and track required rolls following DG runs. Additionally, Operations staff has been informed of this event to ensure that all are aware of the importance and time restrictions regarding Facility Operating License NPF-29 Condition 2.C(25)(b).

#### F. Safety Assessment

The late roll of DG 11 did not compromise plant safety. The delinquent air roll found DG 11 acceptable. In addition, the Division 2 emergency diesel generator, Division 3 emergency diesel generator, and all offsite A.C. power sources were operable during the time of noncompliance. Health and safety of the general public were not compromised.

#### G. Additional Information

Energy Industry Identification System codes are identified in the text within brackets [ ].