

NRC Form 366
(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 1	DOCKET NUMBER (2) 0 5 0 0 0 4 1 6	PAGE (3) 1 OF 0 2
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TITLE (4)

RCIC Isolations

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)									
1	1	0	2	8	4	8	4	0	5	1	0	0	1	2	0	3	8	4	NA	0 5 0 0 0

OPERATING MODE (9) 2		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)									
POWER LEVEL (10) 0 0 1	20.402(b)	20.406(e)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)						
	20.406(a)(1)(i)	50.36(a)(1)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(a)						
	20.406(a)(1)(ii)	50.36(a)(2)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 365A)						
	20.406(a)(1)(iii)	50.73(a)(2)(i)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)							
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)							
	20.406(a)(1)(v)	50.73(a)(2)(iii)	<input type="checkbox"/>	50.73(a)(2)(ix)							

LICENSEE CONTACT FOR THIS LER (12)

NAME Angela H. Horton/License Engineer	TELEPHONE NUMBER 6 0 1 4 3 7 1 2 1 4 9
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

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)

On November 2 and 3, 1984, two Reactor Core Isolation Cooling (RCIC) isolations occurred due to high flow on the RCIC steamline.

The initial isolation was due to a transient in the steam supply line that resulted from a manual turbine trip.

Later, the isolation valves were reopened in order to place RCIC in standby. Steam flowing from these valves caused a high steam flow signal in the RCIC steam line break detection system on one of two divisions which resulted in another RCIC isolation.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 4	—	0 5 1	— 0 0	0 2	OF	0 2

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

On November 2 and 3, 1984, two Reactor Core Isolation Cooling (RCIC) isolations occurred due to high flow on the RCIC steam line.

During plant startup on November 2, at approximately 1921 hours, a RCIC cold quick start test was in progress when large amounts of steam were noted coming from one of the mechanical flanges on the turbine casing. The turbine was manually tripped after approximately 27 seconds of operation. When the turbine tripped, a transient in the steam supply line caused oscillations in the high steam flow transmitter E31-N084A. The 187 inch water peak value of the oscillation was above the 145 inch setpoint, therefore, the RCIC isolation occurred.

The isolation has no significant effect or consequence since it only affected the RCIC system and occurred after and because of the turbine trip.

Approximately 12 hours later the isolation valves were reopened in order to place RCIC in standby. Steam flowing through these reopened valves caused a high steam flow signal in the RCIC steam line break detection system on one of two divisions. RCIC again isolated. Water, possibly collected in one of the elbow tap loop see for the steam flow transmitter, caused a high residual differential pressure signal to be present prior to warming the line. This is considered an isolated event.

Once the pressure across the valve equalized the isolation signal immediately cleared. The RCIC system was not required to be operable due to the reactor pressure being below 135 psig.

In both cases High Pressure Core Spray (HPCS) was operable.



MISSISSIPPI POWER & LIGHT COMPANY

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P. O. BOX 1640, JACKSON, MISSISSIPPI 39205

NUCLEAR LICENSING & SAFETY DEPARTMENT

December 3, 1984

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
RCIC Isolations
LER 84-051-0
AECM-84/0498

Attached is Licensee Event Report (LER) 84-051-0 which is a final report.

Yours truly,

L. F. Dale
Director

EBS/SHH:rg
Attachment

cc: Mr. J. B. Richard (w/a)
Mr. R. B. McGehee (w/a)
Mr. N. S. Reynolds (w/a)
Mr. G. B. Taylor (w/o)

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