

NRC Form 365A
(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 - Unit 1	0 5 0 0 0 4 1 6	8 4	— 0 2 2	— 0 1	0 2	OF	0 2

TEXT: If more space is required, use additional NRC Form 365A's (17)

On April 20, 1984 at 1345 hours, a spurious Reactor Water Cleanup (RWC) System isolation occurred when the RWC equipment area differential temperature READ/SET switch was placed in the READ position. The reading was being taken for the 12-hour Channel Check required by Technical Specification 4.3.2.1. The instrument is a Riley Model 86V differential temperature switch.

To prevent recurrence, the procedure has been revised to require bypassing of the isolation signal when the readings are taken. This requirement may be deleted in the future if plant experience indicates it is no longer needed.

During a scheduled outage that began on October 12, 1985 and ended on December 7, 1985, plant maintenance conducted an investigation into the cause of spurious isolations from Riley temperature switches in the leak detection system. The investigation consisted of resistance measurements on thermocouple wires, an inspection of penetration box wiring, and inspections of thermocouple heads. The investigation revealed two (2) areas with the potential for contributing to the spurious isolations.

Certain Division 1 shield wires were terminated on a terminal block that was not grounded leaving the trip circuits more susceptible to noise disturbances. Plant drawings showed the shield wires connected to a single terminal strip with terminal 16 connected to the ground bus. The actual installation was two (2) terminal blocks with eight (8) terminals each. Because only terminal 16 was connected to ground, the first eight (8) terminals were not grounded.

The investigation also identified seven (7) shield wires grounded outside the Control Room by touching the conduit at the point where the extension wire insulating jacket ended.

Both of these conditions have been corrected. The last incident of a spurious high temperature or high differential temperature isolation occurred in June, 1985. Due to the lack of recurrence of spurious isolations and the corrective actions taken to date, no modifications or further corrective actions are planned.



MISSISSIPPI POWER & LIGHT COMPANY

Helping Build Mississippi

P. O. BOX 1640, JACKSON, MISSISSIPPI 39215-1640

May 28, 1986

O. D. KINGSLEY, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

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
Spurious Reactor Water Cleanup
(RWCU) System Isolation
LER 84-022-01
AECM-86/0147

Reference: AECM-84/0280, dated May 18, 1984

The referenced letter was submitted to the NRC by Mississippi Power & Light Company (MP&L). During further investigation by MP&L, additional information was discovered and is being submitted in this update report.

Attached is Licensee Event Report (LER) 84-022-01 which is a final report.

Yours truly,

ODK:lm
Attachment

cc: 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. R. C. Butcher (w/a)

Mr. James M. Taylor, Director (w/a)
Office of Inspection & Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dr. J. Nelson Grace, Regional Administrator (w/a)
U. S. Nuclear Regulatory Commission
Region II
101 Marietta St., N. W., Suite 2900
Atlanta, Georgia 30323