

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)  
CRYSTAL RIVER UNIT 3

DOCKET NUMBER (2)  
0 5 0 0 0 3 0 2 1 OF 0 1 3

PAGE (3)  
1 OF 0 1 3

TITLE (4)  
Loss of Control Room Annunciator Function

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	2	8	8	4	0	2	2	0	0	0	1	2	4	8	5	N/A	0	5	0	0	0
																N/A	0	5	0	0	0

OPERATING MODE (9) 1

POWER LEVEL (10) 0 9 1

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	50.38(e).1	50.73(a)(2)(v)	73.71(e)
20.406(a)(1)(ii)	50.38(e)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
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: W. K. Bandhauer, Nuclear Safety Supervisor

TELEPHONE NUMBER: 9 1 0 1 4 7 1 9 1 5 - 1 6 1 4 8 1 6

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		
A	F	D	R	C	D	R	L	1	3	0	N

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

ABSTRACT

At 0820 on December 28, 1984, Crystal River Unit 3 lost the Control Room Annunciator System due to an electrical ground on a component served by that system. An Alert was declared in accordance with the Radiological Emergency Response Plan. The electrical ground was isolated and the remainder of the annunciator system returned to service at 0830 on December 28, 1984. The Alert was exited upon restoration of the annunciator system. The plant was stable throughout the event, and no safety systems were rendered inoperable. The ground was located in Heat Trace Recorder HTRT-1 and was repaired within several hours of the event.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  CRYSTAL RIVER UNIT 3	DOCKET NUMBER (2)  0 5 0 0 0 3 0 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 4	0 2 2	0 0	0 2	OF	0 3

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

INITIATING EVENT

At 0820 on December 28, 1984, the Control Room Annunciator System (IB) exhibited improper response. The annunciator windows which had previously been illuminated, indicating an alarm condition present, were extinguished, while a number of other windows suddenly illuminated. The operations staff rapidly determined that the newly illuminated windows were not correct, as they did not agree with existing plant conditions and, in all cases, the alarm condition was not present. The operators attempted to cause a specific window to illuminate by performing a known switch manipulation. The switch manipulation failed to cause the window to illuminate as expected. The operations staff then concluded that they had lost the Control Room annunciators.

EVENT DESCRIPTION

Upon recognition of the event, an Alert was declared (0820, December 28, 1984) in accordance with EM-202, "Duties of the Emergency Coordinator". The operations staff immediately began close surveillance of vital plant parameters to compensate for the loss of annunciators. A Chief Electrician present in the Control Room (for the shift turnover meeting) recognized the likely cause of the event as a ground in the Control Room Annunciator System, and immediately initiated ground isolation procedures for the system. The location of the ground was narrowed down to a single block of twenty-five annunciator points. When the affected block was isolated and the remainder of the annunciators returned to service, the annunciator windows immediately returned to normal status. The incorrect alarm windows extinguished, the correct alarm windows illuminated, and the specific switch manipulation mentioned above resulted in proper window illumination. At 0830 the Control Room Annunciator System was declared operational, and the Alert was exited. The plant remained stable throughout the event.

Further investigation determined the problem to be a positive ground on annunciator point 1919 in conjunction with a pre-existing, intermittent negative ground on the system. The positive ground on point 1919, Heat Trace Recorder HTRT-1 (FD), was isolated and the remaining annunciator points from the previously isolated block of twenty-five were unisolated and returned to service. Troubleshooting of HTRT-1 revealed a wire shorted to the case of the recorder, resulting in a ground. The shorted wire was repaired, HTRT-1 was returned to service, and the Control Room Annunciator System was returned to full operability.

SAFETY CONSIDERATIONS

No safety systems at Crystal River Unit 3 were compromised or challenged, and the health and safety of the public were maintained during this event. Because the plant was in a stable, non-transient condition, the operations staff was able to satisfactorily monitor the plant for the short time during which the annunciators were lost.

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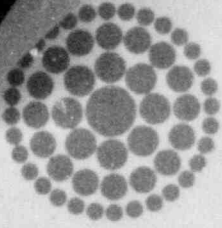
TEXT (If more space is required, use additional NRC Form 386A's) (17)

CORRECTIVE ACTION

The grounded Heat Trace Recorder was repaired and placed back in service as mentioned above. In addition, work continued in an effort to locate and eliminate the intermittent negative ground on the Control Room Annunciator System. On January 17, 1985, a ground was discovered associated with annunciator box ICS-CY4 and corrected.

PREVIOUS SIMILAR EVENTS

This is the first event involving loss of Control Room Annunciator System function.



**Florida  
Power**  
CORPORATION

January 24, 1985  
3F0185-13

Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Subject: Crystal River Unit 3  
Docket No. 50-302  
Operating License No. DPR-72  
Licensee Event Report No. 84-022-00

Dear Sir:

Enclosed is Licensee Event Report (LER) No. 84-022-00 which is submitted in accordance with 10 CFR 50.73.

Should there be any questions, please contact this office.

Sincerely,

G. R. Westafer  
Manager, Nuclear Operations  
Licensing and Fuel Management

DGG/feb

Enclosure

cc: Mr. James P. O'Reilly  
Regional Administrator, Region II  
Office of Inspection & Enforcement  
U.S. Nuclear Regulatory Commission  
101 Marietta Street N.W., Suite 2900  
Atlanta, GA 30323

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