

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) CRYSTAL RIVER UNIT 3										DOCKET NUMBER (2) 0 5 0 0 0 3 0 2										PAGE (3) 1 OF 013																							
TITLE (4) VOLUNTARY ENTRY INTO TECHNICAL SPECIFICATION 3.0.3 FOR MAINTENANCE ON THE EMERGENCY FEEDWATER INITIATION AND CONTROL SYSTEM																																											
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 N/A																									
10		13		85		85		02		20		11		08		85		DOCKET NUMBER(S) 0 5 0 0 0																									
10		13		85		85		02		20		11		08		85		DOCKET NUMBER(S) 0 5 0 0 0																									
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)																																									
1		20.402(b)										20.408(c)										50.73(a)(2)(iv)										73.71(b)											
POWER LEVEL (10)		0916										20.408(a)(1)(i)										50.38(e)(1)										50.73(a)(2)(v)										73.71(a)	
		20.408(a)(1)(ii)										50.38(e)(2)										50.73(a)(2)(vi)										OTHER (Specify in Abstract below and in Text, NRC Form 366A)											
		20.408(a)(1)(iii)										X 50.73(a)(2)(i)										50.73(a)(2)(vii)(A)																					
		20.408(a)(1)(iv)										50.73(a)(2)(ii)										50.73(a)(2)(vii)(B)																					
		20.408(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 0 4 7 9 5 - 6 4 8 6																																	
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)																																											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDOS																																	
X	J/E	X/T	V124	YES																																							
SUPPLEMENTAL REPORT EXPECTED (14)																																											
YES (If yes, complete EXPECTED SUBMISSION DATE)										X NO										EXPECTED SUBMISSION DATE (15)		MONTH		DAY		YEAR																	

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

ABSTRACT

On October 13, 1985, Crystal River Unit 3 was operating at 96% reactor power and producing 855 MWe. At 0300, the Nuclear Operator noted that he had received a half-trip signal on the "B" channel of Emergency Feedwater Initiation and Control (EFIC) system for Main Steam Line Isolation (MSLI) from "B" Once Through Steam Generator (OTSG). It was determined that partial deenergization of EFIC cabinets was appropriate to avoid the potential for causing a severe plant transient as was experienced in the same circumstances earlier in the week. The voluntary entry into Technical Specification 3.0.3 Action Statement was authorized in accordance with plant policy. Deenergization of cabinets "A" and "B" at 1322 caused all automatic actuations of the EFIC system to be inoperable. Additional licensed operators were stationed in the Control Room to manually initiate Emergency Feedwater, Main Steam Line Isolation, and Main Feedwater Isolation functions of EFIC if necessary. The "C" channel of EFIC was found to have a failed Light Emitting Diode (LED). The LED was replaced and the system was tested satisfactorily. A system modification is under consideration which will allow repair while operating.

At 1403 both "A" and "B" cabinets of EFIC were reenergized. This restored EFIC operability and the Technical Specification 3.0.3 Action Statement was exited.

8511180292 851108
PDR ADOCK 05000302
S PDR

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

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 5	- 0 2 2	- 0 0	0 2	OF	0 3

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

EVENT DESCRIPTION

On October 13, 1985, Crystal River Unit 3 was operating at 96% reactor power and producing 855 MWe. At 0300, the Nuclear Operator noted that he had received a half-trip signal on the "B" channel of Emergency Feedwater Initiation and Control (EFIC) system (JE) for Main Steam Line Isolation (MSLI) from "B" Once Through Steam Generator (OTSG) (HX,AB). The signal was intermittent and its exact source could not be determined. These symptoms were similar to the symptoms occurring four days earlier which had resulted in closure of the Main Steam Isolation Valves (SB, ISV) in the "B" main steam line followed by a reactor trip while performing repairs (LER 85-020-00). After careful consideration of these facts, it was determined that plant safety would be enhanced by precluding a severe plant transient resulting from a spurious actuation of EFIC while performing repairs. Therefore, portions of both "A" and "B" cabinets (JE, CAB) of EFIC were deenergized for maintenance at 1322. This constituted a voluntary entry into Technical Specification 3.0.3. The voluntary entry into Technical Specification 3.0.3 Action Statement had been authorized in accordance with plant policy. Partial deenergization of cabinets A and B caused all automatic actuations of the EFIC system to be inoperable. Additional licensed personnel were stationed in the Control Room to manually initiate Emergency Feedwater, Main Steam Line Isolation, and Main Feedwater Isolation functions of EFIC, if necessary.

The "C" channel of EFIC was found to have a faulty Light Emitting Diode (LED) (JE, XT) which produced a half-trip condition in the "B" Trip Module (JE, IMOD). The LED was replaced and the system was tested satisfactorily. At 1403 both "A" and "B" cabinets of EFIC were reenergized. This restored EFIC operability and the Technical Specification 3.0.3 Action Statement was exited.

SAFETY CONSIDERATIONS

While EFIC was inoperable, additional licensed operators were assigned to observe actuation parameters and initiate the protective actions if the actuation limits were reached. All EFIC actuation parameters were observed to be within bounds and EFIC was not actuated. All activities performed on EFIC were completed within the one hour time limit specified by Technical Specification 3.0.3. Therefore, this event did not have any impact on the health and safety of the general public.

CORRECTIVE ACTIONS

The defective LED was replaced.

A modification to the EFIC system is being considered which will allow bypassing portions of the EFIC system or logic for maintenance or repair while operating.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES 8/31/85

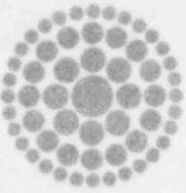
FACILITY NAME (1) CRYSTAL RIVER UNIT 3	DOCKET NUMBER (2) 0 5 0 0 0 3 0 2	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	- 0 2 2	- 0 0	0 3	OF	0 3

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

PREVIOUS SIMILAR EVENTS

Two previous similar events concerning voluntary entry into Technical Specification 3.0.3 occurred in 1984 and were reported in LER 84-014-00. These events were not associated with EFIC.

As mentioned in LER 85-020-00, the failure of the receiver/transmitter module may be related to the previous event.



**Florida
Power**
CORPORATION

November 8, 1985
3F1185-15

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. 85-022-00

Dear Sir:

Enclosed is Licensee Event Report (LER) No. 85-022-00 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

AEF/feb

Enclosure

cc: Dr. J. Nelson Grace
Regional Administrator, Region II
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, GA 30323

IE22
11