

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 0 2		
TITLE (4) AUTO START OF EMERGENCY DIESEL GENERATOR																
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				DOCKET NUMBER(S) 0 5 0 0 0			
0 7	1 3	8 4	8 4	0 1 5	0 1	0 4	2 3	8 5	N/A				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)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(a)(1)				50.73(a)(2)(v)				73.71(a)		
0.9		20.406(a)(1)(ii)				50.36(a)(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						
										AREA CODE 9 10 4 7 9 5 - 16 14 8 16						
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						
B	LIC	FILIT	N	1 7 14	Yes											
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				

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

On July 13, 1984, a drain petcock on an air filter in the 'B' Emergency Diesel Generator (EGDG-1B) Air Start System failed. The failure resulted in a start of the diesel generator (Engineered Safety Feature). On April 4, 1984, a failure on a similar petcock also resulted in a start of EGDG-1B.

As a result of an engineering evaluation, these filters will be replaced with filters designed for a higher pressure.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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 4	— 0 1 5	— 0 1	0 2	OF	0 2

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

EVENT DESCRIPTION

On July 13, 1984, Crystal River Unit 3 was in steady state operation at 98.5% reactor power and generating 857 MWe. At 1752, the 'B' Emergency Diesel Generator (EGDG-1B) (EK,DG) auto started and the 'B' emergency diesel air start pressure low alarm (LC,PA) was activated. Investigation revealed that a drain petcock on filter EGFL-3 (LC,FLT) had failed. Loss of air at the petcock fitting caused a drop in pressure on the operator for air start valve EGV-58 (LC,V), causing the valve to open. This supplied starting air to EGDG-1B and the engine was started.

On April 4, 1984, the same failure occurred on filter EGFL-4 drain petcock resulting in an auto-start of EGDG-1B. At the time this event occurred, 10 CFR 50.73 (A) (2) (iv) was interpreted to mean that an Engineered Safety Feature (ESF) component actuation was not reportable unless actuated by ES logic. Therefore, this previous diesel generator actuation was not reported. Following the July 13, 1984 actuation, the event was reevaluated using examples in NUREG 1022, Supplement No. 1, and determined to be reportable. This LER, therefore, is written to report both events.

The drain petcock is installed in the filter body with a plastic bushing. This plastic bushing fails due to a combination of pressure, heat, vibration, and over torquing. The filter is rated at 250 psig, the pressure of the emergency diesel starting air system.

SAFETY CONSIDERATIONS

In both cases, the diesel generator successfully automatically started when the filter failed. Starting air pressure, however, was bled down to a point where the diesel could not be restarted if secured. For the event on April 4, 1984, the diesel was secured after starting, therefore, the diesel was inoperable until the filter was repaired and starting air pressure recharged (11 hours). For the July 13, 1984 event, the diesel was kept running until the air start system was repaired.

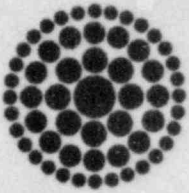
With one of the two emergency diesel generators inoperable, plant operation is permitted by Technical Specifications for 72 hours. Thus, these events were bounded by the safety analysis for CR-3.

CORRECTIVE ACTION

As a result of engineering evaluation, the four air start solenoid air filters will be replaced with filters rated for a higher pressure. This modification is planned for completion during the current refueling outage.

PREVIOUS SIMILAR EVENTS

The two occurrences reported here are the only two failures that have resulted in the diesel generator starting.



**Florida
Power**
CORPORATION

April 23, 1985
3F0485-11

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. 84-015-01

Dear Sir:

Enclosed is Licensee Event Report (LER) No. 84-015-01 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 & Enforcement
U.S. Nuclear Regulatory Commission
101 Marietta Street N.W., Suite 2900
Atlanta, GA 30323

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