



**Florida
Power**
CORPORATION

July 31, 1989
3F0789-30

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D. C. 20555

Subject: Crystal River Unit 3
Docket No. 50-302
Operating License No. DPR-72
Licensee Event Report No. 89-26

Dear Sir:

Enclosed is Licensee Event Report (LER) 89-26 which is submitted
in accordance with 10 CFR 50.73.

Should there be any questions, please contact this office.

Yours very truly,

Rolf C. Widell
Director, Nuclear Operations Site Support

WLR:mag

Enclosure

xc: Regional Administrator, Region II
Senior Resident Inspector

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LICENSEE EVENT REPORT (LER)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED ONE NO. 3150-0104
EXPIRES: 6/31/85

FACILITY NAME (1) CRYSTAL RIVER UNIT 3										DOCKET NUMBER (2) 0 5 0 0 0 3 0 2				PAGE (3) 1 OF 0 3		
TITLE (4) Emergency Diesel Generator Inability to Repair Within Time Allowed by Action Statement Results in Shutdown Required by Technical Specifications																
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)			
									N/A				0 5 0 0 0			
0	6	2	9	8	9	8	9	0	0 2 6				0 0 0 7 3 1 8 9		N/A	
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)				50.73(e)(2)(iv)				73.71(b)		
POWER LEVEL (10)		0 9 7				20.406(a)(1)(i)				50.73(e)(2)(iv)				73.71(e)		
		20.406(a)(1)(ii)				50.38(c)(2)				50.73(e)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 305A)		
		20.406(a)(1)(iii)				X 50.73(e)(2)(i)				50.73(e)(2)(viii)(A)						
		20.406(a)(1)(iv)				50.73(e)(2)(ii)				50.73(e)(2)(viii)(B)						
		20.406(a)(1)(v)				50.73(e)(2)(iii)				50.73(e)(2)(x)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME L. W. MOFFATT, NUCLEAR SAFETY SUPERVISOR										TELEPHONE NUMBER						
										AREA CODE 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 NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC							
X	E, K	D, G	F, O	1, 0	Y											
SUPPLEMENTAL REPORT EXPECTED (14)																
X YES (If yes, complete EXPECTED SUBMISSION DATE)										NO		EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
														1	2	1 5 8 9

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (15)

On June 29, 1989 Crystal River Unit Three was in OPERATIONAL MODE ONE (POWER OPERATION) at 97% Power. Emergency Diesel Generator 1B had been out of service for maintenance since June 26 at 0650. Technical Specification 3.8.1.1 action b was initiated at that time. At 0300 plant shutdown was initiated because EGDG-1B could not be repaired in the time remaining in the action statement. An Unusual Event was declared because the plant was conducting a shutdown required by Technical Specifications. OPERATIONAL MODE THREE (HOT STANDBY) was entered at 1142 on June 29, 1989. Cooldown was initiated and OPERATIONAL MODE FIVE (COOLD SHUTDOWN) was entered at 1722. The Unusual Event was terminated at 1730.

The diesel generator was taken out of service due to low crankcase vacuum. The crankcase vapor ejector and its associated tubing and oil separator have been cleaned and tested satisfactorily. The Supercharger Blower and the Turbocharger were replaced. The cause of the inadequate vacuum has not been conclusively determined. Investigation into the cause of the low vacuum is continuing. Corrective actions will be implemented based on the results of the investigation.

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 8 9 - 0 2 6 - 0 0 0 2 OF 0 3	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			

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

EVENT DESCRIPTION

On June 29, 1989, Crystal River Unit Three was in OPERATIONAL MODE 1 (POWER OPERATION), at 97% Power. Emergency Diesel Generator 1B (EGDG-1B) [EK,DG] had been out of service since 0650 June 26, 1989 when it was removed from service for investigation of a decreasing trend in crankcase vacuum. This trend had been detected over the last several times that the diesel had been operated. Action b of Technical Specification 3.8.1.1 had been entered at that time. At 0200 on June 29, 1989, EGDG-1B failed the post maintenance test and could not be returned to service. This left less than five hours of the 72 hours allowed by the action statement.

At 0300 on June 29, 1989, a plant shutdown was initiated due to the inability to repair EGDG-1B in the time remaining in the action statement. At that time, the Shift Supervisor (Senior licensed Utility Personnel) entered an Unusual Event, as required by the Radiological Emergency Response Plan. At 1142 on June 29, 1989, the plant entered OPERATIONAL MODE THREE (HOT STANDBY). Cooldown and depressurization were initiated in order to be in OPERATIONAL MODE FIVE (COLD SHUTDOWN) within the time requirement of the action statement.

On June 30, 1989 at 1355, the plant entered OPERATIONAL MODE FOUR (HOT SHUTDOWN). Cooldown continued and at 1722 the plant entered OPERATIONAL MODE FIVE (COLD SHUTDOWN). In this mode Technical Specification 3.8.1.1 is no longer applicable. Technical Specification 3.8.1.2 becomes applicable in OPERATIONAL MODE FIVE. This Specification only requires one diesel generator and one offsite power source to be operable. This Specification was met; therefore, the Unusual Event was terminated at 1730. This constituted completion of a shutdown required by Technical Specifications and this event is being reported pursuant to 10CFR50.73.a.2.i.B

EGDG-1B was manufactured by Fairbanks Morse. It is a model 38TD8 1/8 X10 OP.

EVENT ANALYSIS

The applicable action statement of Technical Specifications was complied with. Numerous additional failures would have been necessary before the plant reached a condition in which control of fission product barriers would have been lost. Therefore, this event did not impact the health and safety of the general public.

CAUSE

The exact cause of the inadequate crankcase vacuum has not been determined. Investigation into the cause of this event is continuing. A supplement to this report will be submitted to describe the results of this investigation.

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) 0500030289	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

CORRECTIVE ACTION

The crankcase vapor ejector and its associated tubing and oil separator have been cleaned and tested satisfactorily. The Supercharger Blower [EK,BLO] and the Turbocharger [EK,BLO] were replaced. Surveillance testing of EGDG-1B was accomplished satisfactorily. Investigation into the cause of the low crankcase vacuum is continuing by sending the blower and two turbochargers to the equipment supplier for failure analysis. Corrective actions will be implemented if necessary, based on the results of this investigation.

PREVIOUS SIMILAR EVENTS

No previous events in which decreasing crankcase vacuum caused a diesel generator to become inoperable were found.