



**Florida
Power**

CORPORATION
Crystal River Unit 3
Docket No. 50-302

November 19, 1990
3F1190-12

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

Subject: Licensee Event Report (LER) 90-017

Dear Sir:

Enclosed is Licensee Event Report (LER) 90-017 which is submitted in accordance with 10 CFR 50.73.

Sincerely,

G. L. Boldt
Vice President, Nuclear Production

WLR:mag

Enclosure

xc: Regional Administrator, Region II
Senior Resident Inspector

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PDR ADCK 05000302
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LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1) CRYSTAL RIVER UNIT 3	DOCKET NUMBER (2) C 5 0 0 0 3 0 2 1	PAGE (3) 1 OF 3
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TITLE (4) **Pipe Restraint is Disconnected, Leading to System Inoperability, Resulting in a Condition Prohibited 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)
1	0	20	9	0	01	1	1	19	N/A		0 5 0 0 0
1	0	20	9	0	00	1	1	19	N/A		0 5 0 0 0

OPERATING MODE (9) **3**

POWER LEVEL (10) **0 0 0**

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

20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	50.36(e)(1)	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	50.36(e)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME W. K. BANDHAUER, NUCLEAR OPERATIONS SUPERINTENDENT	TELEPHONE NUMBER
	AREA CODE: 9 0 4 NUMBER: 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

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)

Crystal River Unit 3 was in MODE 3 (HOT STANDBY) at 289°F and 420 psig on October 20, 1990. At 0645, utility personnel disconnected a seismic restraint on piping associated with the Nuclear Services Closed Cycle Cooling (SW) system. This led plant personnel to declare the SW system INOPERABLE.

Plant personnel had been performing maintenance on a Decay Heat Sea Water Pump. During these repairs, personnel discovered an interference between the pump motor and an SW system seismic restraint. The restraint was disconnected to allow pump repairs to continue. The seismic restraint was reinstalled by 1050 on October 20, 1990.

**LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION**

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST 600 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-630), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

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			
		9 0	— 0 1 7	— 0 0 0	2	OF	0 3

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

EVENT DESCRIPTION

Crystal River Unit 3 was in MODE 3 (HOT STANDBY) at 289°F and 420 psig on October 20, 1990. At 0645, utility maintenance personnel disconnected a seismic restraint [CC,SPT] on piping associated with the Nuclear Services Closed Cycle Cooling (SW) system [CC]. Removal of this restraint led plant personnel to declare the SW system INOPERABLE. This event constituted a condition prohibited by Technical Specifications.

The plant was shut down for maintenance on October 10, 1990. By October 18, maintenance was completed and plant heatup had begun. The plant entered MODE 3 at 0850 on this date. Later that day, routine surveillance procedures revealed mechanical problems with one of the two redundant Decay Heat Sea Water pumps (Tag No. RWP-3A) [BI,P]. Initial maintenance plans called for the plant to remain in MODE 3 while the pump was repaired. At 2330 on October 19, plant maintenance personnel discovered that they could not remove the RWP-3A motor [BI,MO] without first removing a SW system seismic restraint (Tag No. SWR-418).

No analysis existed to document the seismic response of SW piping with restraint SWR-418 removed. Removal of the restraint would place the SW system in a seismically unanalyzed condition. This would compromise OPERABILITY of the SW system. Plant Technical Specifications require that the SW system be OPERABLE in MODE 1 (POWER OPERATION) through MODE 4 (HOT SHUTDOWN). Associated ACTION STATEMENTS make no provisions for the entire SW system being inoperable. Therefore, plant management initially decided to cooldown to MODE 5 and delay RWP-3A repairs until cooldown was complete.

At 0645 on October 20, plant management reconsidered the initial decision to delay pump work and decided to remove restraint SWR-418 while still in MODE 3, enter 3.0.3, and continue with RWP-3A repairs. At this point, the SW system was declared INOPERABLE. Entry into 3.0.3 was required because plant Technical Specifications contain no specific ACTION STATEMENT for this condition. In accordance with NUREG 1022, Supplement 1, events which cause entry into Technical Specification 3.0.3 are considered to constitute a condition prohibited by Technical Specifications.

Preliminary evaluation by utility engineers has determined that the seismic response of SW system piping would have been unsatisfactory with SWR-418 disconnected. Without the restraint, piping stresses would probably exceed allowable limits during an earthquake. No additional analysis is planned.

**LICENSEE EVENT REPORT (LER)
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		9 0	— 0 1 7	— 0 0	0 3	OF 0 3

TEXT (If more space is required, use additional NRC Form 266A's) (17)

CAUSE

The plant entered a condition prohibited by Technical Specifications because personnel disconnected seismic restraint SWR-418 during an OPERATIONAL MODE in which the SW system was required to be operable. The restraint was disconnected to allow maintenance activities to continue while cooling down.

CORRECTIVE ACTIONS

The seismic restraint was reinstalled by 1050 on October 20. Plant personnel declared the SW system OPERABLE and exited ACTION STATEMENT 3.0.3. Plant cooldown was completed at 1200 on October 20.

EVENT ANALYSIS

This event posed no threat to plant or public safety. The SW system was in an unanalyzed condition for less than six hours. This was within the time limit established by Technical Specification 3.0.3. Also, equipment and emergency core cooling were available via one train of the Decay Heat Closed Cycle Cooling System [CC].

PREVIOUS SIMILAR OCCURRENCES

This is the eighth report submitted due to a condition prohibited by Technical Specifications. This the second report submitted specifically due to entry into ACTION STATEMENT 3.0.3.