

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Washington Nuclear Plant - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 9 17										PAGE (3) 1 OF 0 12				
TITLE (4) Shutdown Cooling System Failure																								
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)												
0	6	2	3	8	4	8	4	0	6	5	0	0	0	7	1	2	8	4	0	5	0	0	0	0
OPERATING MODE (9)		3		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)																				
POWER LEVEL (10)		0		20.402(b)		20.405(a)		X		50.73(a)(2)(iv)		73.71(b)												
				20.405(a)(1)(i)		50.79(a)(1)				50.73(a)(2)(v)		73.71(c)												
				20.405(a)(1)(ii)		50.3(a)(2)				50.73(a)(2)(vi)		Y OTHER (Specify in Abstract below and in Text, NRC Form 366A)												
				20.405(a)(1)(iii)		50.73(a)(2)(i)				50.73(a)(2)(vii)(A)		50.72(b)(2)(iii)(B)												
				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)										TELEPHONE NUMBER									
NAME C.M. Powers, Reactor Engineering Supervisor										AREA CODE 5 10 19 3 1 7 1 7 1 - 1 2 1 5 10 1 1									

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13) Ext. 2996														
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NRC					
B	B	0 - 1 + B	I 0 7 5	Y										
SUPPLEMENTAL REPORT EXPECTED (14)										EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
YES (if yes, complete EXPECTED SUBMISSION DATE)										X NO				

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

During reactor cooldown on 6/23/84, the RHR-B loop was placed in the shutdown cooling mode. Following starting of RHR-P-2B, pump motor current was determined to be high and the pump was secured and isolated. Reactor cooldown was continued utilizing the A-train of RHR.

Upon investigation, it was discovered that the pump motor half coupling retaining nut had loosened causing pump/motor coupling separation. This condition resulted in pump impeller/wear ring interference.

Repairs to the pump were completed and modifications made to other similar pumps to preclude recurrence of the event.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Washington Nuclear Plant - Unit 2	0 5 0 0 0 3 9 7 8 4	—	0 6 5	—	0 0 0	2 OF 0 2	

TEXT (If more space is required, use additional NRC Form 388A's) (17)

Plant Conditions

- a) Power Level - 0%
- b) Plant Mode - 3

Event

At 0940 hours on 6/23/84, the RHR B train was placed in service for reactor cooldown. Upon starting RHR Pump 2B, operators noticed that pump motor current was fluctuating and, upon confirming the indication, the pump was secured and the 'A' train was placed in service to continue the plant cooldown.

Upon investigation, it was discovered that the motor half coupling retaining nut had loosened, causing pump/motor coupling separation. The retaining nut set screws (2) were missing, thus allowing the retaining nut to back off the motor shaft and the half coupling to slip. Further investigation revealed that the setscrews were missing when the pump was provided by the supplier.

This condition reduced all running clearances between the pump impeller and casing to essentially zero, resulting in pump impeller to wear ring interference and the resultant motor current increase.

Immediate Corrective Actions

- 1) RHR Pump 2B was reworked and the method of setting the retaining nut was modified to further secure the motor half coupling. This modification was performed with General Electric's concurrence.
- 2) All other ECCS pump/motor coupling half couplings and retaining nuts were inspected with set screws found in place. The modification performed on RHR Pump 2B was implemented on these pumps to prevent recurrence of the problem.
- 3) General Electric was notified and is in the process of notifying all other BWR owners with similar designs by way of a Service Information Letter (SIL) and recommending the setscrew modification.

Further Corrective Actions

All applicable plant procedures will be revised to include detailed instructions on methods of inspecting the coupling half when the pump/motor is uncoupled and how to install/remove the coupling half.

Safety Significance

This event did not, at any time, pose a threat to plant safety or that of the general public. The RHR 'B' train is redundant to the 'A' train which was utilized following the event.

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

Docket No. 50-397

July 12, 1984

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

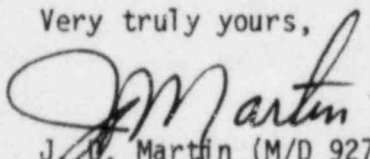
Subject: NUCLEAR PLANT NO. 2
LICENSEE EVENT REPORT NO. 84-065

Dear Sir:

Transmitted herewith is Licensee Event Report No. 84-065 for WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR50.73 and discusses the item of reportability, corrective action taken, and action taken to preclude recurrence.

This is the follow-up report to the verbal notification given at 1050 hours on June 23, 1984.

Very truly yours,


J. D. Martin (M/D 927M)
WNP-2 Plant Manager

JDM:mm

Enclosure:

Licensee Event Report No. 84-065

cc: Mr. John B. Martin, Administrator
Region V, Office of Inspection and Enforcement
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