	REGULA RY INFORMATION DISTRICTIC SYSTEM (RIDS)	
ACCESSION NBR: FACIL: 50-397	8707300029 DOC.DATE: 87/07/23 NOTARIZED: NO WPPSS Nuclear Project, Unit 2, Washington Public Powe	DOCKET # 05000397
AUTH. NAME	AUTHOR AFFILIATION	
ARBUCKLE, J. D.	Washington Public Power Supply System	
POWERS, C. M.	Washington Public Power Supply System	
RECIP. NAME	RECIPIENT AFFILIATION	
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SUBJECT: LER 87-017-00: on 870623, RWCU sys automatically isolated due to high differential flow. Caused by leakage through influent isolation valve for filter demineralizer which subjected sys to high pressure. RWCU pumps returned to Svc. W/870723 1tr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED:LTR / ENCL / SIZE: 4/ TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	AEOD/DSP/ROAB	2	2	AEOD/DSP/TPAB	1	1	
	DEDRO	1	1	NRR/DEST/ADE	1	0	
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	NRR/DEST/PSB	1	1	NRR/DEST/RSB	1	1	
	NRR/DEST/SGB	1	1	NRR/DLPQ/HFB	1	1	
	NRR/DLPQ/QAB	1	1	NRR/DOEA/EAB	1	1	
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•	NR <u>R/PMA</u> S/ILRB	1	1	NRR/PMAS/PTSB	1	1	
6	REG FILE 02	1	'1	RES DEPY GI	1	1	
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	RGN5 FILE 01	1	1				
EXTERNAL:	EG&G GROH, M	5	5	H ST LOBBY WARD	1	1	
	LPDR	1	1	NRC PDR	1	1	
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NRC Form 366A (9-83) LICENSEE EVENT REPO	ORT (LER) TEXT CONTINU	U.S. NUCLEAR REG JATION APPROVED C EXPIRES: 8/3	DULATORY COMMISSION DMB NO, 3150-0104 11/85
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	- PAGE (3)
	1	YEAR SEQUENTIAL REVISION	
Washington Nuclear Plant - Unit 2	0 5 0 0 0 3 9 7	8 7 _ 0 1 7 _ 0 0	0 2 0F 0 3
TEXT (If more space is required, use additional NRC Form 306A's) (17)			
Plant Conditions			

b) Plant Mode - 2 (Startup)

Power Level - 1.5%

Event Description

a)

On June 23, 1987 at 1342 hours, the Reactor Water Cleanup (RWCU) System automatically isolated due to high differential flow. The isolation occurred during the performance of the Demineralizer Backwash and Precoat section of Plant Procedure 2.2.3, "Reactor Water Cleanup System." When the Radwaste Control Room Operator de-isolated an RWCU Filter Demineralizer (RWCU-DM-1B) after precoating, a flow upset caused the differential flow indication to go off-scale high for approximately 45 seconds, resulting in the system isolation and tripping of RWCU Pumps 1A and 1B.

The cause of this event was leakage through the Influent Isolation Valve (RWCU-V-206B) for RWCU-DM-1B, which subjected the RWCU Precoat System to an abnormally high pressure. As a result, Precoat System Relief Valves CF-RV-661 and 663 lifted, resulting in a high differential flow mismatch and automatic system isolation. RWCU Pumps 1A and 1B tripped on a high differential flow isolation due to isolating RWCU-CM-1B while the precoat tank was de-isolated. It should be noted that Plant Operators took appropriate action to reduce the high differential flow, but were unsuccessful in their attempt.

The cause of RWCU-V-206B leakage was determined to be incomplete work instructions associated with the rework of the valve during the last outage. This valve is adequately unique and the generic valve procedure used did not completely address the maintenance of such. A contributing factor in this event is system design in that, with the existing automatic valve sequencing for the RWCU Filter Demineralizers, only single valve isolation between the high pressure filter and low pressure precoat system is provided when shifting from precoat retain to hold modes.

Immediate Corrective Action

The two RWCU pumps were restarted and the System returned to service.

Further Corrective Action

- A Maintenance Work Request (MWR) was written to perform stem adjustments to RWCU-V-206B and verify that the valve plug made contact with the valve seat ring. This work has been completed and the stem adjustments corrected the leakage problem.
- A procedure will be developed/modified for the maintenance and followup testing of RWCU Valves 206A/B, 210A/B, 210A/B and 211A/B.
- A Plant modification document has been prepared to consider modifying the RWCU Filter Demineralizer circuit logic to allow double valve isolation between the high and low pressure systems at all times.

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LICENSEE EVENT REPORT (LEF		U.S. NUCLEAR RE N APPROVED (EXPIRES: 8/	GULATORY COMMISS DMB NO, 3150-0104 31/85
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Safety Significance	•		
There is no safety significance associated as designed. This event pose either the public or plant personnel.	iated with this eve ed no threat to the	nt in that the RW health and safet	CU y of
Similar Events		×	
There have been a number of other LERs problems; however, none with the same	s associated with R root cause.	WCU differential	flow
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Text Reference	E	IIS Reference	
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Reactor Water Cleanup System	CE	 CDM	jk
RWCU-V-206B	CE	PDVC	
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NRC FORM 366A (9-83)

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • 3000 George Washington Way • Richland, Washington 99352

Docket No. 50-397

July 23, 1987

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

Subject: NUCLEAR PLANT NO. 2 LICENSEE EVENT REPORT NO. 87-017

Dear Sir:

Transmitted herewith is Licensee Event Report No. 87-017 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.

Very truly yours,

C.M. Howers (M/D 927M) WNP-2 Plant Manager

CMP:1c

Enclosure: Licensee Event Report No. 87-017

cc: Mr. John B. Martin, NRC - Region V Mr. R. T. Dodds, NRC Site (M/D 901A) INPO Records Center - Atlanta, GA Ms. Dottie Sherman, ANI Mr. D. L. Williams, BPA (M/D 399)

