

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8909150239 DOC. DATE: 89/09/11 NOTARIZED: NO DOCKET #  
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397  
 AUTH. NAME AUTHOR AFFILIATION  
 FIES, C.L. Washington Public Power Supply System  
 POWERS, C.M. Washington Public Power Supply System  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-033-00: on 890811, RWCU delta flow isolation due to  
 blown fuse.

W/8 ltr.

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	NRR/DEST/MTB 9H	1 1	NRR/DEST/PSB 8D	1 1
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	NUDOCS-ABSTRACT	1 1	REG FILE 02	1 1
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EXTERNAL:	EG&G WILLIAMS, S	4 4	L ST LOBBY WARD	1 1
	LPDR	1 1	NRC PDR	1 1
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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

Docket No. 50-397

September 11, 1989

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

Subject: NUCLEAR PLANT NO. 2  
LICENSEE EVENT REPORT NO. 89-033

Dear Sir:

Transmitted herewith is Licensee Event Report No. 89-033 for the WNP-2 Plant. This report is submitted in response to the report requirements of 10CFR50.73 and discusses the items of reportability, corrective action taken, and action taken to preclude recurrence.

Very truly yours,

*C. M. Powers*

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

CMP:lr

Enclosure:  
Licensee Event Report No. 89-033

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

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## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Washington Nuclear Plant - Unit 2										DOCKET NUMBER (2) 0 5 0 0 0 3 9 7				PAGE (3) 1 OF 03		
TITLE (4) Reactor Water Cleanup Delta Flow Isolation Due to Blown Fuse																
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)			
08	11	89	89	033	00	09	11	89					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)				20.405(c)				50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)		
080		20.405(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vii)				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)(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)(x)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME C. L. Fies, Compliance Engineer										TELEPHONE NUMBER						
										AREA CODE 5109 3177 - 1210319						
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						
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)

On August 11, 1989 at 0254 hours, with the plant at 80% power, a Reactor Water Cleanup System (RWCU) isolation occurred. The isolation occurred when a fuse in the power supply to the leak detection monitor blew, giving a false high flow signal to the isolation logic. There was no apparent cause for the blown fuse. As an immediate corrective action, the fuse was replaced and the RWCU system was restored to operation. Since all safety systems operated as designed, this event posed no threat to the health and safety of plant personnel or the public.

Plant Conditions

- a) Power Level - 80%
- b) Plant Mode - 1

Event

On August 11, 1989 at 0254 hours, with the plant at 80% power, a Reactor Water Cleanup (RWCU) System isolation occurred. This isolation is part of a Nuclear Steam Supply Shutoff System (NS<sup>4</sup>) Group 7 isolation. The isolation was caused by a blown fuse (E31A-F18) in the power supply to the leak detection flow switch (LD-FS-u05B) which provides input to the isolation logic. When LD-FS-605B lost



## 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   9	-   0   3   3	-   0   0	0   2	OF	0   3

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

power, it closed, giving a false high flow signal to the downstream isolation logic (relays K7B and K26). This in turn caused RWCU Inboard Isolation Valve RWCU-V-1 to close and the running RWCU pump, RWCU-P-1A, to trip.

Immediate Corrective Action

At 0339 hours, the blown fuse was replaced with an identical unit (Bussman 5 amp type MIN). At 0458 hours, Plant Reactor Operators returned RWCU-P-1A to service after proper warmup in accordance with plant procedures.

Further Evaluation and Corrective ActionA. Further Evaluation

1. This event is being reported as an event that resulted in automatic actuation of an Engineered Safety Feature under the requirements of 10CFR50.73 (a)(2)(iv).
2. The ESF actuation was caused by a blown fuse. The root cause of the fuse blowing has not been determined. A quarterly review of all fuse failures is performed per plant procedure. Historical records associated with this fuse were reviewed with no indication that the fuse had blown previously in this circuit. In addition, plant drawings were reviewed to evaluate the current load on the fuse compared to its rating. The fuse was rated at 5 amps and equipment downstream of the fuse was well below 1 amp.
3. As a further investigation, the actual current being drawn through the fuse was measured at 0.15 amp.

B. Further Corrective Action

No further corrective action is planned.

Safety Significance

The RWCU system and NS<sup>4</sup> systems functioned to initiate isolation per the design requirements. Short outages of the RWCU system have no impact on plant operations. There is no safety significance to this event as it posed no threat to the safety of plant personnel or the public.

Similar Events

There have been a number of other LERs dealing with RWCU differential flow isolations. None of these, however, are associated with a blown fuse.

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Washington Nuclear Plant - Unit 2	0   5   0   0   0   3   9   7	8   9	-   0   3   3	-   0   0	0   3	OF 0   3	

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

IIIS InformationText ReferenceSystemComponent

RWCU System

CE

NA

NS<sup>4</sup>

JC

NA

Fuse E31A-F18

CE

FU

LD-FS-605B

CE

FS

RWCU-P-1A

CE

P

RWCU-V-1

CE

V