

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8710060482 DOC. DATE: 87/09/30 NOTARIZED: NO DOCKET #  
 FACIL: 50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000397  
 AUTH. NAME AUTHOR AFFILIATION  
 WASHINGTON, S. L. Washington Public Power Supply System  
 POWERS, C. M. Washington Public Power Supply System  
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-027-00: on 870831, APRM calibr from heat balance not completed within required time limits. Caused by personnel error. Review of plant historical data which concluded that five of six channels within required Tech Spec. W/870930 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD5 LA	1 1	PD5 PD	1 1
	SAMWORTH, R	1 1		
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/NAS	1 1
	AEOD/DSP/ROAB	2 2	AEOD/DSP/TPAB	1 1
	DEDRO	1 1	NRR/DEST/ADS	1 0
	NRR/DEST/CEB	1 1	NRR/DEST/ELB	1 1
	NRR/DEST/ICSB	1 1	NRR/DEST/MEB	1 1
	NRR/DEST/MTB	1 1	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	NRR/DREP/RAB	1 1
	NRR/DREP/RPB	2 2	NRR/DRIS/SIB	1 1
	NRR/PMAS/ILRB	1 1	<del>REG FILE</del> 02	1 1
	RES DEPY GI	1 1	RES TELFORD, J	1 1
	RES/DE/EIB	1 1	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
	NSIC HARRIS, J	1 1	NSIC MAYS, G	1 1



## 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 0 3																													
TITLE (4) Technical Specification Surveillance "APRM Calibration from Heat Balance" not performed within time limits due to Personnel Error																																																	
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 8			3 1			8 7				7 8		7 8		0 2		7 0		0 0			9 3			0 8 7														0 5 0 0 0											
OPERATING MODE (9) 1										THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																																							
POWER LEVEL (10) 0 9 8										20.402(b)										20.405(c)										50.73(a)(2)(iv)										73.71(b)									
										20.405(a)(1)(i)										50.36(c)(1)										50.73(a)(2)(v)										73.71(c)									
										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)										X 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 S.L. Washington, Compliance Engineer																				TELEPHONE NUMBER 5 1 0 1 9 3 1 7 7 1 - 1 2 1 0 8 1 0																													
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)																				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 31, 1987 it was discovered that the weekly "Average Power Range Monitor (APRM) Calibration from Heat Balance", had not been completed within the required time plus 25% as required by Plant Technical Specification Table 4.3.1.1-1.2. The calibration was due to be performed on August 25, 1987, was overdue on August 27, 1987, and was not performed until September 1, 1987.

The surveillance procedure was performed the next day (September 1, 1987) which coincided with the normal surveillance schedule.

The root cause of this event was personnel error. A Plant Technical Staff Supervisor failed to route the Surveillance Monitoring System (SMS) computer card to the Plant Shift Engineers who perform the surveillance. The SMS Computer card serves as a reminder to the Shift Engineer to perform the surveillance.

Corrective actions included a review of Plant historical data (the Transient Data Acquisition System-TDAS-stores a set of Plant data once every minute and stores this for two weeks before overwriting with new data) which concluded that five (5) of the six (6) APRM channels were within the allowable Technical Specification tolerances from the time the surveillance was due to when it was performed on September 1, 1987. Only four (4) of the six (6) APRM channels (two (2) of three (3) per trip system) are required to be operable by Plant Technical Specifications. In addition, Plant Shift Engineers have been directed to perform the surveillance every Wednesday whenever the Plant is operating above 25% of Rated Thermal Power (RTP) as a normal duty or as required by the SMS card.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

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   7	—   0   2   7	—   0   0	0   2	OF	0   3

TEXT (If more space is required, use additional NRC Form 368A's) (17)

Abstract (continued)

There is no adverse safety significance associated with this event. Five (5) of the six (6) APRM channels were within the required tolerance for the missed surveillance period and; therefore, the associated Reactor Protection System (RPS) APRM trips would have occurred within Technical Specification allowable limits.

Plant Conditions

- a) Power Level - 98%
- b) Plant Mode - 1 - Power Operation

Event Description

On August 31, 1987 it was discovered that the weekly "APRM Calibration from Heat Balance", had not been completed within the required time period plus 25% as required by Plant Technical Specification Table 4.3.1.1-1.2. The calibration was due to be performed on August 25, 1987, was overdue on August 27, 1987, and was not performed until September 1, 1987.

The root cause of this event was personnel error. The Plant Surveillance Monitoring System (SMS) produces a computer card for each Plant surveillance tracked. The card notifies cognizant personnel that the task is due and documents task completion for SMS feedback. A Plant Technical Staff Supervisor failed to route the card to the Plant Shift Engineer. The on duty Plant Shift Engineer is responsible for performing the surveillance within the time frame designated on the SMS card. Plant procedures were not a contributing factor.

Immediate Corrective Action

The APRM calibration from Heat Balance Surveillance was performed on September 1, 1987.

Further Evaluation and Corrective Action

The APRM gain Adjustment Factors for the period between when the surveillance was due and when it was performed was retrieved from the stored TDAS data base. The APRM gain adjustment factor is a Plant Process Computer generated ratio between % rated thermal power and the APRM channel value. This value is used in performing the APRM Calibration from Heat Balance and must be between 1.02 and .98.



## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/88

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 7	-	0 2 7	-	0 0	0 3	OF 0 3

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

A review of the data concluded that in all cases, five (5) of the six (6) APRM channels were within the allowable Technical Specification limit from the time the surveillance was due to when it was performed on September 1, 1987. Only four (4) of six (6) APRM channels (two (2) of three (3) per trip system) are required to be operable by Plant Technical Specifications.

The Plant Shift Engineers have been directed to perform the Surveillance every Wednesday whenever the Plant is operating above 25% RTP as a normal duty or as required by the SMS card.

### Safety Significance

There is no adverse safety significance associated with this event. Five (5) of the six (6) APRM channels were within the required tolerance for the missed surveillance period and; therefore, the associated Reactor Protection System APRM trips would have occurred within the Technical Specification allowable limits.

### Similar Events

84-062, 84-111, and 85-004

### EIIS Information

#### Text Reference

Average Power Range Monitor (APRM)  
Reactor Protection System (RPS)

#### EIIS Reference

System	Component
IG	MON
JC	---





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WASHINGTON PUBLIC POWER SUPPLY SYSTEM

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

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Docket No. 50-397

September 30, 1987

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

Subject: NUCLEAR PLANT NO. 2  
LICENSEE EVENT REPORT NO. 87-027

Dear Sir:

Transmitted herewith is Licensee Event Report No. 87-027 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:db

Enclosure:  
Licensee Event Report No. 87-027

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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