CATEGORY	
REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)	
ACCESSION NBR:9803110369 DOC.DATE: 98/03/04 NOTARIZED: NO DOCK FACIL:50-397 WPPSS Nuclear Project, Unit 2, Washington Public Powe 05000 AUTH.NAME. AUTHOR AFFILIATION PFITZER,B. Washington Public Power Supply System BEMIS,P.R. Washington Public Power Supply System RECIP.NAME RECIPIENT AFFILIATION	
SUBJECT: LER 98-001-00:on 980203,automatic start of HPCS EDG was noted.Caused by operator error.Operations crew stabilized plant at approximately 75% reactor power & investigation of event was initiated.W/980304 ltr.	C A
DISTRIBUTION CODE: 122T COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 5	T
TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.	E

CATECODY

1

G

0

R

Y

1

D

0

C

Ũ

Μ

Ε

N

т

NOTES:

6

	RECIPIENT ID CODE/NAME PD4-2 PD	COPII LTTR 1	ES ENCL 1	RECIPIENT ID CODE/NAME POSLUSNY,C	COP: LTTR 1	IES ENCL 1	(
					-	-	-
INTERNAL:	ACRS	1	1	AEOD/SPD/RAB	2	2	•
	AEOD/SPD/RRAB	· 1	· 1	FILE CENTER	1	1	
	NRR/DE/ECGB	1	1	NRR/DE/EELB	1	1	
	NRR/DE/EMEB	1	1	NRR/DRCH/HHFB	1	1	
	NRR/DRCH/HICB	1	1	NRR/DRCH/HOLB	1	1	•
	NRR/DRCH/HQMB	1	1	NRR/DRPM/PECB	1	1	
	NRR/DSSA/SPLB	1	1	NRR/DSSA/SRXB	1	1	
	RES/DET/EIB	1	1	RGN4 FILE 01	1 '	1	1
EXTERNAL:	L ST LOBBY WARD	1	1	LITCO BRYCE, J H	1	1	
	NOAC POORE, W.	1	1	NOAC QUEENER, DS	1	1	, c
	NRC PDR	1	1	NUDOCS FULL TXT	1	1	(

NOTE TO ALL "RIDS" RECIPIENTS: PLEASE HELP US TO REDUCE WASTE. TO HAVE YOUR NAME OR ORGANIZATION REMOVED FROM DISTRIBUTION LISTS OR REDUCE THE NUMBER OF COPIES RECEIVED BY YOU OR YOUR ORCANIZATION, CONTACT THE DOCUMENT CONTROL DESK (DCD) ON EXTENSION 415-2083

FULL TEXT CONVERSION REQUIRED TOTAL NUMBER OF COPIES REQUIRED: LTTR 25 ENCL 25 WASHINGTON PUBLIC POWER SUPPLY SYSTEM

P.O. Box 968 • Richland, Washington 99352-0968

March 4, 1998 GO2-98-044

Docket No. 50-397

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

Gentlemen:

## Subject: NUCLEAR PLANT WNP-2, OPERATING LICENSE NPF-21, LICENSEE EVENT REPORT NO. 98-001-00

Transmitted herewith is voluntary Licensee Event Report No. 98-001-00 for WNP-2. This report is submitted in response to the recommendations contained in NUREG-1022.

Should you have any questions or desire additional information regarding this matter, please call me or Mr. Paul Inserra at (509) 377-4147.

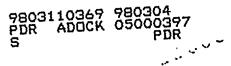
Respectfully, P./R Bernis

Vice President, Nuclear Operations Mail Drop PE23

Enclosure

cc: EW Merschoff, NRC RIV KE Perkins, Jr., NRC RIV, WCFO C Poslusny, Jr., NRR PD Robinson, Winston & Strawn

NRC Sr. Resident Inspector, MD927N (2) INPO Records Center - Atlanta, GA DL Williams, BPA, MD399



			LIC	ENSEI	e even	T REF	ORT	<b>(</b> L	ER)						
FACILITY NAME	• •	shington Nuclear Plant - Unit 2					DOCKET NUMBER (2) PAGE (3) 50-397 1 OF								
			EPORT OF A		= = = = = = = = = = = = = = = = =	STAF	RT OF	F H			OPI	ERA			
			LER NUMBER (6)			ORT DAT	. (2)		OTUER F	1011 TOTE	10 T	WOLV	(ED (	91	
EVENT DATE MONTH DAY	(5) YEAR	YEAR	SEQUENTIAL NUMBER	REV.	MONTH	DAY	YEAR	F/	OTHER FACILITIES I					NUMBER	
02 03	98	98	001	00		04	98		FACILITY NAME NAME			DOCKET NUMBER			
OPERATING MODE		THIS RE	PORT IS SUBMITTED	PURSUA	NT TO THE	REQUIRE	MENTS C	)F 10	0 CFR §: (Check	one or m	(910)	(11)			
	1	20.4	402(b)		20.405(c)				50.73(a)(2)(iv)			73.71(b)			
POWER		20.4	405(a)(1)(i)		50.36(c)(1	)			50.73(a)(2)(v)			73.71(			
	100	20.4	405(a)(1)(ii)		50.36(c)(2	)			50.73(a)(2)(vii)		x	OTHE	DTHER		
		20.4	405(a)(1)(iii)		50.73(a)(2	00			50,73(a)(2)(viii)(A	)	•	Volu	Voluntary		
		20.4	405(a)(1)(iv)		50.73(a)(2	)(ii)			50.73(a)(2)(viii)(B	(viii)(8) (NUR			IUREG 1022)		
		20.4	405(a)(1)(v)		50.73(a)(2	)(iii)			50.73(a)(2)(x)						
NAME Bill Pfitzer, I	licensin	g Engi		ENSEE	CONTACT	FOR THI	S LER	(12	TELEPHONE 509-377-2		(Incl	ude Ar	ea Co	de)	
	co	MPLETE	ONE LINE FOR EA	асн со	MPONENT	FAILURE			ED IN THIS RE						
CAUSE SYSTEM	COMPON	ENT M		NPRDS		CAUSE	SYST	ЕМ	COMPONENT	MANUFA	CTUR	ER		PORTABLE	
					-										
			REPORT EXPECTED				_ <u> </u>	E.	XPECTED	MONTH	H 1		Y	YEAR	
YES	SUPPLE	MENTAL				NO	-	67	160100						
(If yes, complete ABSTRACT:	M EXPECT	ED SUBMIS	SSION DATE).	<u>.</u>			<u> </u>								
On 2/03/98, du operator mistal handswitch. T COND-P-1B, c breaker to bus Loss of COND Operations cree Recirculation s Immediate action an investigation The cause of the the supply bread	tenly trip his resul condensa SM-4, a SM-4, a -P-1B an w action ystem. ons were n of the ker for voluntari	pped the ited in t ite boos nd auto nd CON to redu All plar e taken l event w was hun electrica	ter pump CONI matic starting o ID-P-2B initiate ice total core flo the equipment op by the Operatio has initiated by o man error and f al bus SM-2, where rted since the 1	r for 4 rical b D-P-21 of the H ed a re ow to a erated ns cre- conver ailure hich in HPCS	160v ele us SM-2 B, conde High Pre actor wa approxin as desig w to stat ning an I to self c n turn car	ectrical which nser cin ssure C ter leve nately 6 ned du bilize th ncident heck, in used the	bus Si was a culatin core Sp el trans 50 mill ring th ring th re plan Revie n that e loss	M-2 ccopray praysiention ne e at at the of l	2 by inadverted mpanied by the water pump (C y emergency on the which was lb-mass/hr by event. the approximate Board (IRB). control room bus SM-4 and	ent opera ripping ( CW-P-1E diesel ge mitigated y use of ly 75% f operato I the star	atior of co 3 and enera d by the reac or er er of	n of t onder d the ator ( y prop Reac tor p rone tor p	he bi sate supp (HPC mpt tor ower ower	reaker pump ply CS DG). r, and r, and v tripped S DG.	

Ф 1

LICENSE	E EVENT REPORT ( TEXT CONTINUATION	LER)					
FACILITY NAME (1)	NAME (1) DOCKET NUMBER (2) LER NUMBER (6)						
	C	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Washington Nuclear Plant - Unit 2	50-397	98	001	00	2	OF	4

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

## Event Description

On February 3, 1998, while operating in Mode 1 at 100% power, control room personnel were making preparations to perform the Division 1 Emergency Diesel Generator semi-annual operability surveillance (OSP-ELEC-S701). In accordance with the surveillance procedure, the designated Control Room Operator (CRO2) had shifted the power source for electrical board SM-1 from transformer TR-N to transformer TR-S, with a second Control Room Operator (CRO3) acting as a peer checker for the evolution. As one of the final steps in the evolution, the procedure directed the control switch for breaker CB-N1/1, the normal supply breaker to electrical bus SM-1, to be placed in the TRIP position to ensure the switch escutcheon green flag is displayed.

Just prior to this step, CRO3 (the peer checker) responded to an unrelated control room annunciator, and CRO2 (the performer) momentarily turned away from the control panel to review the impending steps of the procedure. After reviewing the procedure, CRO2 returned his attention to the control panel and incorrectly selected and manipulated the control switch for breaker CB-N1/2, the normal supply breaker to bus SM-2. Upon manipulation of the handswitch, CB-N1/2 tripped, de-energizing SM-2. The selection and operation of the handswitch for CB-N1/2 was performed in error by CRO2.

De-energization of SM-2 caused automatic tripping of the pumps associated with the bus, i.e., condensate pump COND-P-1B, condensate booster pump COND-P-2B, and condenser circulating water pump CW-P-1B. The consequent reduction in reactor feedwater flow resulted in reactor water level lowering at a rate of about 25 inches per minute. Prompt action by the Operations crew to lower total core flow to approximately 60 million lb-mass/hr using the Reactor Recirculation system, thus reducing reactor power level, successfully stabilized the plant at approximately 75% power. Power was immediately returned to bus SM-2 by manual closure of the alternate supply breaker from transformer TR-S.

Additionally, the momentary loss of bus SM-2 caused the de-energization of electrical bus SM-4, which in turn resulted in automatic starting of the HPCS DG due to SM-4 undervoltage. Normal power was subsequently returned to bus SM-4 when the Operations crew re-closed the supply breakers from SM-2 and manually tripped the HPCS DG.

Because the HPCS DG is not considered an Engineered Safety Feature at WNP-2, this report is being voluntarily submitted per the recommendation of NUREG 1022. This event would otherwise require a mandatory report per the requirements of 10CF50.73(a)(2)(iv).

**Immediate Corrective Action** 

A voluntary 4-hour report of the HPCS DG auto start was made in accordance with 10 CFR 50.72 (b)(2)(ii).

After the transient was stabilized, a Problem Evaluation Request was initiated and an Incident Review Board (IRB) was convened.

	EVENT REPORT (	LER)				••••••••	
FACILITY NAME (1)	DOCKET NUMBER (2)	[	LER NUMBER (6)	)	E	AGE (3	3)
	1	YEAR SEQUENTIAL NUMBER					
Washington Nuclear Plant - Unit 2	50-397	98	001	00	3	OF	4
TEXT (If more space is required, use additional copies of NRC Form 3	66A) (17)			<u> </u>			
Root Cause							
The cause of the event was human error. After hav procedure, CRO2 incorrectly selected the handswit position without adequate self-checking.	•		•			IP	
A contributing cause of this event was failure to ob procedure using peer checks, CRO2 considered the discontinued obtaining peer checks prior to action s	e remaining portion of						
An additional contributing cause of this event was t communicated by Operations management.	that peer checking st	andard	s have not bee	n proper	ly		
Further Corrective Action							
Operations supervision will conduct and document error(s) associated with this event.	appropriate counsel	ing to a	ddress the hur	nan perf	orma	ince	
A station wide stand down was conducted on Febru human performance error initiated events.	uary 3, 1998, to revi	ew this	event as well	as other	rece	nt	
An entry into the Operations Night Orders was mad Operations Observation program, procedure usage,					gard	ling th	ne
Shift Managers will evaluate crew members for buy do not exhibit the proper use of self-checking techn techniques, emphasizing the value of self-checking.	iques will be given o			-		s that	
Operations management expectations regarding pee appropriate Operating Instruction(s).	er checks and self-ch	lecking	will be docum	ented in	the		
The Operations Observation program will be revise expectations for peer checks and self-checking.	d to provide instruc	tion to	reinforce mana	igement'	s		
Assessment of Safety Consequences							
The consequences of this event were minimized by resultant reactor water level transient. Additional power conditions such as this event. A review of bus SM-2 is a negligible contributor to the overall	ly, the design basis the WNP-2 Probab	of the ilistic S	plant envelope Safety Analysi	es loss o s shows	f ele that	ctrica loss c	

Ę

¢

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION										
FACILITY NAME (1)	DOCKET NUMBER (2)		LER NUMBER (6)	PAGE (3)		3)				
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER						
Washington Nuclear Plant - Unit 2	50-397	98	001	00	4	OF	4			

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

consequences of this event are considered minimal. However, it is recognized that personnel performance is critical to successful plant operations.

## Similar Events

LER 96-002 documented an equipment operator opening a potential transformer fuse compartment, resulting in electrical bus SM-8 transferring to alternate power supply, and automatic starting of EDG-2.

LER 95-002 documents Operations personnel manipulation of the wrong lever on the main turbine front standard, resulting in a main turbine trip and reactor scram.