

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Trojan Nuclear Plant										DOCKET NUMBER (2) 0 5 0 0 0 3 4 4				PAGE (3) 1 OF 012									
TITLE (4) Automatic Actuation of 'B' Emergency Diesel Generator																							
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 N/A				DOCKET NUMBER(S) 0 5 0 0 0										
1	2	1	8	8	5	8	5	0	1	4	0	0	0	1	1	6	8	6	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)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)									
POWER LEVEL (10)		20.406(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)									
11010		20.406(a)(1)(ii)				50.36(c)(2)				50.73(a)(2)(vi)				OTHER (Specify in Abstract below and in Text, NRC Form 366A)									
		20.406(a)(1)(iii)				50.73(a)(2)(i)				50.73(a)(2)(viii)(A)													
		20.406(a)(1)(iv)				50.73(a)(2)(ii)				50.73(a)(2)(viii)(B)													
		20.406(a)(1)(v)				50.73(a)(2)(iii)				50.73(a)(2)(ix)													
LICENSEE CONTACT FOR THIS LER (12)																							
NAME Scott A. Bauer, Onsite Regulation Engineer										TELEPHONE NUMBER 5 0 3 5 5 6 - 3 7 1 3													
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													
X	F	K		F	U						NO												
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR							
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO											

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

On December 18, 1985, with the plant at 100% power, the 'B' Emergency Diesel Generator automatically started from undervoltage on the output side of the No. 2 Startup Transformer. The startup transformer lost power when the feeder breakers to the No. 2 230-kV bus in the switchyard opened due to blown fuses in the No. 2 230-kV bus potential transformer output. No apparent cause could be found for the blown fuses. The fuses were replaced and the No. 2 230-kV bus was re-energized.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)  Trojan Nuclear Plant	DOCKET NUMBER (2)  0 5 0 0 0 3 4 4 8 5	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 5	0 1 4	0 0	0 2	OF	0 2

TEXT (If more space is required, use additional NRC Form 365A's) (17)

DESCRIPTION OF EVENT

At 1245 on December 18, 1985, with the plant at 100% power, power was lost to the No. 2 230-kV bus (V-82) in the Trojan switchyard resulting in a loss of power downstream of the No. 2 Startup Transformer and a subsequent automatic start of the No. 2 Emergency Diesel Generator (EDG) on undervoltage. The EDG output breaker did not close as the associated 4.16-kV bus remained energized from the main generator via the unit auxiliary transformer. The plant remained at 100% power throughout the event.

The loss of power to the V-82 bus resulted from two blown fuses (20 a) on the A and C phases of the output of the potential transformer. The output of the potential transformer provides the sensing signal for meter and relaying. The loss of both the 'A' and 'C' phases caused the distance relays to trip which, in turn, tripped the V-82 feeder breakers. The fuses which blew had been replaced earlier in the month (December 13, 1985) after a meter and relay technician caused the fuse on the A phase to blow while repairing a broken lamp socket.

CORRECTIVE ACTION

Corrective action was taken to replace the blown fuses and take current readings to determine if an overcurrent condition existed. The current readings were normal. During the 1986 refueling outage additional troubleshooting will be performed. Additionally, an evaluation is in progress for replacement of the distance relays with relays which do not trip on loss of the potential transformer.

CAUSE OF OCCURRENCE

No apparent cause could be found for the two blown fuses.

SIGNIFICANCE OF OCCURRENCE

This occurrence had no impact on the health and safety of the public because the EDG started on demand as required even though an emergency source of power was not needed.



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Trojan Nuclear Plant  
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January 16, 1986  
WSO-025-86

US Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Gentlemen:

Licensee Event Report No. 85-14 is attached.

Sincerely,

W. S. Orser  
General Manager  
Trojan Nuclear Plant

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11