

## LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Palo Verde Unit 1										DOCKET NUMBER (2) 0 5 0 0 0 5 2 8					PAGE (3) 1 OF 0 2	
TITLE (4) Automatic Actuation of BOP ESFAS Cabinet																
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	2	2	8	5	8	5	0	1	0	0	0	0	0	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)														
5		20.402(b)				20.406(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		0 0 0				20.406(a)(1)(i)				50.38(c)(1)				73.71(c)		
		20.406(a)(1)(ii)				50.38(c)(2)				50.73(a)(2)(vii)				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)(x)						
LICENSEE CONTACT FOR THIS LER (12)																
NAME William F. Quinn (Extension 4087)										TELEPHONE NUMBER						
										AREA CODE 610 1 2 914 13 171 210 101						
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
<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)

Automatic actuation of the Balance of Plant Engineered Safety Features Actuation System (BOP ESFAS) occurred when placing the Train "A" sequencer in manual mode from auto mode. During the transfer from auto to manual, Train "A" Fuel Building Essential Ventilation Actuation Signal (FBEVAS) and Control Room Essential Filtration Actuation Signal (CREFAS) as well as the cross-trip to Train "B" FBEVAS and CREFAS were initiated. Resetting both Train "A" and "B" cabinets returned the system to normal.

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## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104

EXPIRES: 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Palo Verde Unit 1	0 5 0 0 0 5 2 8	8 5	— 0 1 0	— 0 0	0 2	OF	0 2

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

On February 21, 1985 at 1332, the plant was in Mode 5. The BOP ESFAS System, with Train "A" in auto test and Train "B" in manual with the FBEVAS module bypassed, experienced a trip when Train "A" was being transferred from auto to manual in preparation for bypassing CREFAS "A" to troubleshoot radiation monitor RU-29. Immediately following this event, the trip of Train "A" FBEVAS and CREFAS and the subsequent cross-trip of Train "B" FBEVAS and CREFAS were able to be duplicated.

Upon investigation, later the same day with identical conditions, operations could not duplicate the trip.

Investigation showed that digital circuit flip-flop U-14 at MC 6676 is set for a short period while the FBEVAS module is being tested by the sequencer diagnostic software program. If a transfer from auto to manual is completed at the proper instant, flip-flop U-14 can be left in the set condition with no means for it to reset; this results in a valid trip condition, thereby causing the sequencer in Train "A" to actuate the appropriate equipment and also to cross-trip Train "B" causing the same sequencing. This timing situation was verified by the equipment vendor.

To prevent a recurrence of this type of trip, it is required that the BOP ESFAS only be transferred from auto to manual when the sequencer is in module test (the test lamp lit on the sequencer). Both Train "A" and "B" have functioned as per design since being reset during the sequencer module test portion of the auto testing sequence.

A Procedure Change Notice (PCN) to all operating and surveillance test procedures will be required to reflect this change. All PCN's are expected to be implemented by April 30, 1985.



## Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

ANPP-32220-EEVB/WFQ

March 25, 1985

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

Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Unit 1  
Docket No. STN 50-528; License No. NPF-34  
Licensee Event Report  
File: 85-056-026; G.1.01.10

Dear Sirs:

Attached please find Licensee Event Report (LER) No. 85-010-00 prepared and submitted pursuant to 10 CFR 50.73. By copy of this letter we are also forwarding a copy of the LER to the Regional Administrator of the Region V Office.

If you have any questions or concerns, please contact me.

Very truly yours,

E. E. Van Brunt, Jr.  
Executive Vice President  
Project Director

EEVB/GEC/mb  
Attachment

cc: J. B. Martin  
R. P. Zimmerman  
E. A. Licitra  
A. C. Gehr  
INPO Records Center

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