

## 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 02

TITLE (4)

Automatic Actuation of Balance of Plant Engineered Safety Feature System

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	2	6	8	5	8	5	0	6	4	0	0	0	0	0	0	0
0	8	2	6	8	5	8	5	0	6	4	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)																								
POWER LEVEL (10)	0	0	0	20.402(b)	20.406(a)(1)(i)	20.406(a)(1)(ii)	20.406(a)(1)(iii)	20.406(a)(1)(iv)	20.406(a)(1)(v)	20.406(c)	50.36(c)(1)	50.36(c)(2)	50.73(a)(2)(i)	50.73(a)(2)(ii)	50.73(a)(2)(iii)	50.73(a)(2)(iv)	50.73(a)(2)(v)	50.73(a)(2)(vi)	50.73(a)(2)(vii)	50.73(a)(2)(viii)(A)	50.73(a)(2)(viii)(B)	50.73(a)(2)(ix)	73.71(b)	73.71(c)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)	

LICENSEE CONTACT: OR THIS LER (12)

NAME	TELEPHONE NUMBER
William F. Quinn, Manager of Nuclear Licensing (Ext. 4087)	6 0 2 9 4 3 - 7 2 0 0

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input checked="" type="checkbox"/>	<input type="checkbox"/>				

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

On August 26, 1985, at 1101, Palo Verde Unit 1 was in Mode 3 at 565F and 2250 psia when an automatic actuation of the Control Room Essential Filtration Actuation Signal (JE) occurred due to a high radiation alarm on the control room ventilation radiation monitoring unit (IL). All attendant equipment actuated satisfactorily. The control room ventilation system was sampled by Radiation Protection and indicated an activity of 1.0E-9 microcuries per milliliter.

The cause of the actuation was the shifting of the radiation monitor's microcomputer ground from the station ground bus to the instrument ground bus. This was being accomplished by contractor personnel to investigate the grounding design utilized in the radiation monitoring system (as reported in LER 85-031-00).

To prevent recurrence, Maintenance and Outage Management Departments have been formally notified that, prior to any corrective or preventative maintenance activities on radiation monitors (IL) that have input to the Engineered Safety Features System, the appropriate monitor's output signal to the Engineered Safety Features System shall be placed in bypass and documented.

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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 6 4	— 0 0	0 2	OF	0 2

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

On August 26, 1985, at 1101, Palo Verde Unit 1 was in Mode 3 at 565F and 2250 psia when the Control Room Operators identified that the control room essential filtration unit was automatically operated by an alarm/actuation from the control room ventilation process radiation monitor (IL). All attendant equipment operated satisfactorily.

The control room essential filtration unit is actuated from the Balance of Plant Engineered Safety Features Actuation System (JE) which receives a signal from the control room ventilation radiation monitoring unit. The signal will operate from a high radiation signal. The high radiation indicated was 1.18E-03 microcuries per milliliter with a set point of 2.00E-05 microcuries per milliliter. A sample of the control room ventilation system indicated an activity level of 1.0E-9 microcuries per milliliter.

The cause of the actuation was the shifting of the radiation monitor's microcomputer ground from the station ground bus to the instrument ground bus. This was being accomplished by contractor personnel to investigate the grounding design utilized in the radiation monitoring system (as reported in LER 85-031-00). This work was being accomplished under a Construction Work Order which did not specify that the system should be in bypass. The microcomputer utilized in the Radiation Monitoring System counted noise spikes on the instrument ground bus as pulses from the detector and generated a false high radiation trip signal.

The actuation was caused by personnel error and not a high radiation level. All equipment operated as designed. This event had no impact on the safe operation of the plant.

The radiation monitor was recalibrated, with the microcomputer grounded to the instrument ground bus, and declared operable on August 29, 1985, at 0919.

To prevent recurrence, Maintenance and Outage Management Departments have been formally notified that, prior to any corrective or preventative maintenance activities on radiation monitors that have any input to the Engineered Safety Features System, the appropriate monitor's output signal to the Engineered Safety Features System shall be placed in bypass and documented.



## Arizona Nuclear Power Project

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

September 25, 1985  
ANPP-33569-EEVB/GEC

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-41  
Licensee Event Report - Automatic Actuation of Balance  
of Plant Engineered Safety Feature System  
File: 85-056-026; G.1.01.10

Dear Sirs:

Attached please find Licensee Event Report (LER) No. 85-064-00 prepared and submitted pursuant to 10 CFR 50.73. This LER addresses an automatic actuation of a Balance of Plant Engineered Safety Feature System. In accordance with 10 CFR 50.73(d), we are herewith 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/slh  
Attachment

cc: J. B. Martin (all w/a)  
R. P. Zimmerman  
A. L. Hon  
E. A. Licitra  
A. C. Gehr  
INPO Records Center

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