

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 3
--	--------------------------------------	----------------------

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	2	0	8	5	0	1	1	0	0	5	0	0	0	0
0	2	0	8	5	0	1	1	0	0	5	0	0	0	0

OPERATING MODE (9) 5

POWER LEVEL (10) 0, 0, 0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §. (Check one or more of the following) (11)

20.402(b)	<input checked="" type="checkbox"/>	50.73(a)(2)(iv)	73.71(b)
20.405(a)(1)(i)	<input type="checkbox"/>	50.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	<input type="checkbox"/>	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
20.405(a)(1)(iii)	<input type="checkbox"/>	50.73(a)(2)(viii)(A)	
20.405(a)(1)(iv)	<input type="checkbox"/>	50.73(a)(2)(viii)(B)	
20.405(a)(1)(v)	<input type="checkbox"/>	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
William F. Quinn, Manager - Nuclear Licensing (Extension 4087)	6 0 2 9 4 3 1 - 7 2 0 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)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

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

This is a supplement to LER 85-011-01.

On February 6, 1985, at 2035, Palo Verde Unit 1 was in Mode 5. Train "A" of Shutdown Cooling (BP) was in operation when the Control Room Essential Filtration Unit was automatically operated by a spurious alarm/actuation from the Control Room Ventilation Radiation Monitor (IL). All attendant equipment operated satisfactorily, and backup sampling verified that it was a spurious actuation.

The spurious actuation was due to electronic circuit noise.

The detector noise discrimination circuitry was tested by exposing the radiation monitor to a radiation source; no degradation from the initial calibration was noted.

To prevent recurrence of the event, the grounding design for the Radiation Monitoring System is being changed, and the forecast completion date is July 1, 1986.

8604110238 86-04-03
PDR ADOCK 05300528
S PDR

IE 22

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 5 2 8	LER NUMBER (8)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		85	011	02	02	OF	03

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

This is a supplement to LER 85-011-01.

On February 6, 1985, at 2035, Palo Verde Unit 1 was in Mode 5. Train "A" of Shutdown Cooling (BP) was in operation when the Control Room Essential Filtration Unit was automatically operated by a spurious alarm/actuation from the Control Room Ventilation 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 which receives a signal from the Control Room Ventilation Radiation Monitoring Unit. The signal will operate from either a high radiation signal or an equipment failure signal. The system computer identified that high radiation caused the trip; the radiation level indicated 2.19E-06 microcuries per milliliter with a setpoint of 2.20E-06 after the trip. The duration of the alarm was less than 18 seconds.

The spurious actuation was due to electronic circuit noise.

The detector noise discrimination circuitry was tested by exposing the radiation monitor to a radiation source; no degradation from the initial calibration was noted.

During the investigation, it was identified that the radiation alarm setpoint was greater than allowed by the Technical Specifications. The setpoint that was in effect was the default value which is stored in the radiation monitor's microcomputer software. The radiation monitor restores the default value for setpoints after a loss of power. The plant's redundant radiation monitor was operable with setpoints consistent with the Technical Specifications and the minimum channels needed to be operable per the Technical Specifications were satisfied.

The following action was taken: The high radiation alarm setpoint was adjusted to be conservative with the Technical Specifications and a plant change request has been generated to modify the microcomputer software default values to be consistent with the Technical Specifications. Plant procedures are in effect to verify that setpoints are in compliance with the Technical Specifications.

The range of the instrument is 1E-06 to 1E-01 microcuries per milliliter. The setpoint of 2E-06 is near the lower end of the range of the detector. Subsequent random spikes of indicated radiation levels have been observed on this monitor. Routine radiological surveys have not detected airborne radiation above naturally occurring background levels. It is, therefore, believed that these random spikes of radiation levels are due to electronic circuit noise.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 5 2 8 8 5	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		85	- 0 1 1	- 0 2	0 3	OF 0 3

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

To prevent recurrence of the event, the grounding design for the Radiation Monitoring System is being changed, and the forecast completion date is July 1, 1986.



Arizona Nuclear Power Project

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

April 3, 1986
ANPP-35940-EEVB/RAB/98.05

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 NPF-41)
Licensee Event Report - 85-011-02
File: 86-020-404

Dear Sirs:

Attached please find Supplement Number 02 to Licensee Event Report (LER) No. 85-011-00 prepared and submitted pursuant to 10 CFR 50.73. In accordance with 10 CFR 50.73(d), we are herewith forwarding a copy of this report to the Regional Administrator of the Region V Office.

If you have any questions, please contact me.

Very truly yours,

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

EEVB/RAB/rw
Attachment

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

JE22
1/1