NRC Form 366
(9-83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
Palo Verde Unit 1	0 5 0 0 0 5 2 8	1 OF 0 2

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 3	2 4	8 5	8 5	0 1 1	0 1	0 4	2 3	8 5		0 5 0 0 0
										0 5 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)		20.405(c)	X	50.73(a)(2)(iv)
	20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)
	20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)
	20.405(a)(1)(iii)		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)
	20.405(a)(1)(iv)		50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)
	20.405(a)(1)(v)		50.73(a)(2)(iii)		50.73(a)(2)(x)

	73.71(b)
	73.71(c)
	OTHER (Specify in Abstract below and in Text, NRC Form 366A)

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
William F. Quinn (extension 4087)	AREA CODE 6 0 2 — 9 4 3 - 7 2 1 0

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
NA	N A	N A	N A	N							

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X YES (If yes, complete EXPECTED SUBMISSION DATE)	NO		0 8	3 0	8 5

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

Automatic Actuation of the Control Room Essential Filtration Actuation Signal occurred due to a spurious high radiation alarm on the radiation monitoring unit. All attendant equipment actuated satisfactorily.

The root cause and final corrective action regarding this event are still under investigation and will be addressed in a supplement to this report.

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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 1	— 0 1	0 2 OF 0 2

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

On March 24, 1985, at 0940, Palo Verde Unit 1 was in Mode 5, when the Control Room Essential Filtration Unit was automatically operated by a spurious alarm/actuation from the Control Room Ventilation Process Radiation Monitor. 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 operates from a high radiation alarm in the radiation monitor. The system computer identified that a high radiation alarm caused the trip; the radiation level indicated 1.80E-06 Microcuries per Milliliter. The set point of the Radiation Monitor is 1.80E-06 Microcuries per Milliliter. The duration of the alarm was less than 5 seconds.

The cause of the high radiation signal was not identified. The range of the instrument is 1E-06 to 1E-01 Microcuries per Milliliter. The setpoint of 1.8E-06 is conservative with the Technical Specification Requirement of 2E-06, but both values are near the lower end of the range of the detector. Subsequent random spikes of indicated radiation levels have been observed on this monitor although none of these spikes have been of sufficient magnitude to cause a high alarm/actuation. Routine radiological surveys have not detected airborne radiation above naturally occurring background levels. It is believed that these random spikes of radiation levels are due to Electronic Circuit Noise.

The following Activities are ongoing at this time:

1. Evaluation of the design of grounding utilized in the radiation monitoring system and the effects that noise spikes in the ground system may have on the radiation monitors.

2. Evaluation of the possible degradation of the radiation monitor's detector and noise discrimination circuitry.

3. Evaluation of the possibility of raising the radiation monitors alarm setpoint to a value away from the low end of the detectors sensitivity, which will allow operation with random low level electronic noise and still maintain a safe environment for control room habitability.

This actuation is considered random and is similar to an event that occurred on February 6, 1985, and reported on LER 85-011-00.

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

ANPP-32464-EEVB/GEC
April 23, 1985

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. 85-011-01 prepared and submitted pursuant to 10 CFR 50.73. LER No. 85-011-00 was submitted in March 8, 1985. 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/das
Attachment

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

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