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 5 0 0 0
0 4	1 7	8 5	8 5	–	0 3 1	–	0 1	0 8	1 2	8 5		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)			
5	20.402(b)	20.405(c)	X 50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 1 0 0	20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
	20.405(a)(1)(ii)	50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	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)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
William F. Quinn, Manager - Nuclear Licensing (Ext. 4087)	AREA CODE 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 NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	

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

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

This supplemental report is provided to include additional information obtained since the original report was made on May 15, 1985.

Automatic Actuation of the Control Room Essential Filtration Actuation Signal occurred due to a spurious High Radiation Alarm on the Radiation Monitoring Unit (RU-29). All attendant equipment actuated satisfactorily.

The following activities have been completed:

1. The radiation monitor was subjected to a source. The monitor and the detector noise discrimination circuitry exhibited no degradation from initial calibration.

2. A change to the Technical Specifications from the Low Power License to the Full Power License was incorporated to raise the High Radiation Trip Setpoint to less than or equal to 2.0E-5 microcuries per milliliter. After the setpoint was raised to the new Technical Specification Limit, the plant has not experienced any High Radiation Trips on the Control Room Ventilation Radiation Monitors.

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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 3 1	— 0 1	0 2 OF 0 2

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

This supplemental report is provided to include additional information obtained since the original report was made on May 15, 1985.

On April 17, 1985 at 0353, 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 (RU-29). 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 high radiation caused the trip, with the radiation level indicating 1.80E-06 with a setpoint of 1.80E-06. The duration of the alarm was less than 11 seconds.

This actuation occurred 45 minutes after the Radiation Monitor was placed into service after having had a defective power supply replaced. 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 level. It is, therefore, believed that these random spikes of radiation levels are due to electronic circuit noise.

The following activities have been completed:

1. The radiation monitor was subjected to a source. The monitor and the detector noise discrimination circuitry exhibited no degradation from initial calibration.

2. A change to the Technical Specifications from the Low Power to the Full Power License was incorporated to raise the High Radiation Trip Setpoint to less than or equal to 2.0E-5 micorcuries per milliliter. After the setpoint was raised to the new Technical Specification Limit, the plant has not experienced any High Radiation Trips on the Control Room Ventilation Radiation Monitors.

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

August 12, 1985
ANPP-33199-EEVB/GEC

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528, License No. NPF-34
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. 85-031-01 prepared and submitted pursuant to 10 CFR 50.73. This LER addresses an automatic actuation of the Balance of Plant Engineered Safety Feature System. This report supplements LER 85-031-00 submitted on May 15, 1985. 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

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

EEVB/GEC/slh
Attachments

cc: J. B. Martin (all w/a)
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