NRC Form 366 (9.63			U.S. NU	APPROVED OMB			
LICEN	NSEE EVENT REP	ORT (LER)		EXPIRES 8/31/W			
FACILITY NAME (1)			DOCKET NUMBER	(3)	FAGE 13		
Palo Verde Unit 1			0 5 0 0	10151218	1 OF 0 2		
Spurious ESF Actuation Initia	ated by Electr	ical Noise					
EVENT DATE (5) LER NUMBER (6)	REPORT DATE (7)	OTHER	FACILITIES INVO	LVED (8)			
MONTH DAY YEAR YEAR SEQUENTIAL REVENON MO	ONTH DAY YEAR	MES	DOCKET NUMBER(S)				
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0 2 2 1 8 6 8 6 0 1 3 0 0 0 OPERATING THIS REPORT IS SUBMITTED PURSUANT TO T	101010101	CFR § /Check one or more	of the following) (1		10111		
MODE (8) 1	NC. 655(e)	X 50.73(a)(2)(iv)	(iv) 73.71(b				
LEVEL	10.36(c)(1)	50.73(s)(2)(v)		73.71(e)			
	50,36(e)(2)	50.73(a)(2)(vii)	(*)	OTHER (Specify in Abstract Selow and in Text, NRC Form 366A)			
	10.73(a)(2)(ii)	0.73(a)(2)(i) 50.73(a)(2)(viii)(A) 0.73(a)(2)(ii) 50.73(a)(2)(viii)(A)					
20,405(a)(1)(v) 5	50.73(a)(2)(iii)	50.73(a)(2)(x)	0				
LICE	NEEE CONTACT FOR THIS	ER (12)		TELEPHONE NUM			
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William F. Quinn, Manager - Nuclear COMPLETE ONE LINE FOR EA				9 4 3 -	7 2 0 0		
CAUSE SYSTEM COMPONENT MANUFAC REFORTABLE TO NPRDS	CAUSE		MANUFAC- TURER	REPORTABLE TO NPROS			
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On February 21, 1986 at 2231, OPERATION) at 100 percent rea signal on spent fuel pool are in the actuation of a Fuel Bu (FBEVAS). This represents th The actuation of the FBEVAS r Control Room Essential Filtra The actuations were per desig satisfactorily. There were no component or sy	ctor power, where a radiation model inding Essents are actuation of resulted in a contrast tion Actuation on and all asso	nen a spuriou mitor RU-31 Lal Ventilati an Engineer crosstrip act Signal (CRE ociated equip	s high ra occurred, on Actuat ed Safety uation of FAS). ment oper	diation resultin ion Signa Feature. the ated	1		
The root cause of the actuati which originated in the groun To prevent recurrence, a desi	ding system.				,		
separate isolated grounding s projected to be completed by	July 1, 1986.	Radiation Mo	nitoring	System,			
There were no personnel error	· S -		1	11			
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NRC Form 36/.4 (9.83)	LICENSEE EVENT P		US NUCLEAR REGULATORY COMMISSION APPROVED OMB NO 3150-0104 EXFIRES: 8/31/88								
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)				No. of Lot of Lo	PAGE (3)			
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Palo Verde	Unit 1	0 15 0 0 0 15 1 218	816	***	91	3 -	- 010	0 12	0	0	12

On February 21, 1986 at 2231, Palo Verde Unit 1 was in Mode 1 (POWER OPERATION) at 100 percent reactor power, when a spurious high radiation signal on spent fuel pool area radiation monitor RU-31 (MON) occurred, resulting in the actuation of the train A Fuel Building Essential Ventilation Actuation Signal (FBEVAS)(JE). This represents the actuation of an Engineered Safety Feature. The actuation of the FBEVAS resulted in a crosstrip of both trains of the Control Room Essential Filtration Actuation Signal (CREFAS)(JE) and the Train B FBEVAS. The actuations were per design and all associated equipment operated satisfactorily. Surveys taken in the area found no abnormal radiation levels. The CREFAS and FBEVAS were reset at 2244 on February 21, 1986.

There were no component or system failures that contributed to the event.

The root cause of the actuation is believed to have been electrical noise, which originated in the grounding system. To prevent recurrence, a design change will be implemented to install a separate isolated grounding system (FC) for the Radiation Monitoring System (IL), projected to be completed by July 1, 1986.

There were no personnel errors.

Since the FBEVAS and CREFAS actuation which occurred were due to spurious signal spikes, and not due to an actual high area radiation level in the fuel building, no threat to the safe operation of the plant or to the general public existed during this event. Surveys taken in the area found no abnormal radiation levels in the fuel building. However, had a high radiation level existed during this event, the safety of the plant and the public would have been ensured by the proper operation of the CREFAS and FBEVAS safety features.

Similar events have occurred in Unit 1 and were reported in LERs 85-064-00, 85-011-00, 85-022-00, 85-053-00, 85-062-00.



Arizona Nuclear Power Project P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

> March 24, 1986 ANPP-35643-EEVB/PGN/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 - 86-013-00 File: 86-020-404

Dear Sirs:

Attached please find Licensee Event Report (LER) No. 86-013-00 prepared and submitted pursuant to 10 CFR 50.73. In accordance with 10 CFR 50.73(d), we are herewith forwarding a copy of the LER to the Regional Administrator of the Region V Office.

If you have any questions, please contact me.

Very truly yours. Jul

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

EEVB/PGN/rw Attachment

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

IERA