LICENSEE EVENT REPORT (LER)							U.S. NU	NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/88							
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20.402(b)			20.405(c) A 50.73(a)(2)(iv)				(2)(w)		73.71(0)						
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This is a su On February of Shutdown Filtration i from the Con equipment op a spurious a The spurious The detector radiation mo calibration To prevent n Monitoring S July 1, 1980	applement 6, 1985, Cooling (Unit was a ntrol Room perated sa actuation. s actuation s actuation to noise di onitor to was noted recurrence System is 6.	to LER at 203 BP) was utomat: Ventil tisfac n was o scrimin a radia of the being o	85-011-01. 5, Palo Ver s in operat ically oper lation Radi torily, and due to elect nation circo ation source e event, the changed, an	rde U tion rated latio d bac ctron cuitr ce; n ne gr nd th	nit 1 when by a n Mon kup s ic ci y was o deg o deg oundi e for	was the (sput itor ampl: rcuin test radat	in M Contr cious (IL) ing v t noi t noi ted b tion	ode 5. ol Room alarm/a . All a rerified .se. by exposi from the pletion	Train "/ Essentia ctuation ttendant that it ng the initial Radiati date is	a" i was					
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19-83) LICENSEE EV	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION							APPROVED OMB NO 3150-0104 EXPIRES: 8/31/88					
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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.

EVENT REPORT (LER) TEXT CONTINUATION					U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NC 3150-0104 EXPIRES 8/31/88							
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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,

Et Van Bromt Li/1

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