URC Form 366 9-83) LICENSEE EVENT REPORT (LER)			U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85					
FACILITY NAME (1)		DOCKET NUMBER	21 PAGE (					
Palo Verde Unit 1		0 15 10 10 1	015128 1 OF 0					
TITLE (4)								
EVENT DATE (5) LER NUMBER (6) REPORT DATE (7)	OTHER	FACILITIES INVOL	VED (B)					
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THIS REPORT IS SUBMITTED PURSUANT YO THE REQUIREMENTS	OF 10 CFR &: (Check one or more	of the following) (11)	0 1910 10101 1					
MODE (9) 3 20.402(b) 20.405(c)	50.73(a)(2)(iv)	1	73.71(b)					
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LICENSEE CONTACT FOR	THIS LER (12)							
NAME		AREA CODE	ELEPHONE NUMBER					
W. F. Quinn, Manager - Nuclear Licensing (Ext	ension 4087)	61 0 2	914 3 1-17 1210					
COMPLETE ONE LINE FOR EACH COMPONENT FAI	URE DESCRIBED IN THIS REPOR	IT (13)						
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19:831 LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO EXPIRES 8/31/85					
FACILITY NAME (1) DOCKET NUMBER	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
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Palo Verde Unit 1	0 5 0 0 5 28	8 5 -0 5 0 -0 10	0120003		

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

On July 17, 1985, at 0004 hours, Palo Verde Unit 1 was in Mode 3 (565 degrees F and 2250 psia) with a containment wide-range pressure channel check surveillance procedure in progress. The results of the channel check indicated a variation among the four independent channel indicators which was greater than allowed by the procedure. The containment wide-range pressure channels provide input to the 2 out of 4 coincidence logic used to actuate the containment spray portion of the Engineered Safety Features Actuation System (JE). The Reactor Operator determined the Channel "C" indication to be questionable, declared the channel inoperable, and commenced an investigation.

Following initial troubleshooting actions, the decision was made to verify channel "C" calibration by performance of the procedure. At 1030 hours, the channel "C" transmitter isolation valve was discovered to be closed. Control Room Operators were notified and immediately requested verification of the other containment pressure channel isolation valve positions. Transmitter isolation valves were verified to be open for all containment pressure channels. Following completion of the channel "C" calibration procedure and opening of the transmitter isolation valve, the channel was declared OPERABLE. As a precautionary measure, the instrument isolation valves were verified to be correctly positioned on all instrumentation channels governed by Technical Specifications. All valves were found to be positioned correctly and documented as such at 1430 hours on July 18, 1985.

The investigation into the maintenance history for the channel "C" transmitter identified the last work performed was the instrument channel calibration surveiklance procedure on April 25, 1985. The restoration section of that procedure contained an action step for "returning the transmitter to service" and an action step for independent verification.

In an attempt to determine when the channel "C" isolation valve had been closed, a review of completed channel check surveillance procedure data sheets was performed. The channels in question are wide-range channels, displaying a range of -4 to +85 psig on an indicator scale with 1 psig increments. Normal containment pressure indication on the wide range channels was between 0 and 1.5 psig. Due to the relatively infrequent and small variations in containment pressure combined with the range and increments of the indicator scale, the review of containment pressure channel check records was inconclusive in determining when the channel "C" isolation valve had been closed.

The date/time the channel "C" containment wide-range pressure transmitter isolation valve was closed is indeterminate. During the indeterminate time interval from valve closure to its reopening on July 19, 1985, the channel was inoperable but not declared so. Consequently, Technical Specifications L.C.O. 3.3.2 ACTION Statement 13 was violated. ACTION Statement 13 requires the inoperable Channel to be placed in the bypassed or tripped condition within 1 hour, if the number of channels OPERABLE is less than the Total Number of Channels.

A review was conducted to determine if channels A, B, or D had been inoperable during the time from April 25 to July 17, 1985. Results of the review indicated that channels A, B, andD had been maintained operable during that period. However, during the performance of the required monthly Plant Protection System functional test LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

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procedure, the containment wide-range pressure channels are bypassed (1 hour/channel) during trip/alarm setpoint verification for the containment spray ESFAS initiation setpoint. Therefore, Action Statement 14 requires one of the inoperable channels to be placed in bypass and the other inoperable channel to be placed in the tripped condition within one hour, if the number of channels OPERABLE is one less than the Minimum Channels OPERABLE.

As corrective action, calibration procedures will be revised to better define equipment restoration requirements by providing specific steps for verifying (including independent verification) instrument valve positions in lieu of less specific steps such as "return the transmitter to service." Procedure revisions and corresponding retraining will be completed prior to the next performance date of each of the procedures, with all procedures revised by October 15, 1985.

During the time period the channel "C" containment wide-range pressure transmitter isolation valve was closed, a potential impact on the safe operation of the plant existed, however, no conditions existed that would have required a containment spray actuation. Technical Specification L.C.O. 3.3.2 for containment hi-hi (wide-range) pressure/containment spray requires 2 channels to trip. Two out of the four channels were continuously available for ESFAS actuation.

NRC Form 366A



Arizona Nuclear Power Project P.O. BOX 52034 • PHOENIX, ARIZONA 85372-2034

> ANPP-33230-EEVB/GEC August 16, 1985

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 No. NPF-41
Licensee Event Report - Isolation of Plant Protection Channel
File: 85-056-026; G.1.01.10

Dear Sirs:

Attached please find Licensee Event Report (LER) No. 85-050-00 prepared and submitted pursuant to 10 CFR 50.73. This LER addresses the isolation of a Plant Protection Channel. 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,

EEVan Burnt Vn/11

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

EEVB/GEC/s1h Attachments

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