LICENSEE EVENT REPORT (LER)							U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 2150-0104 EXPIRES \$/31/88						
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TEXT (If more space is required, use additional NRC Form 3864's/ (17)				_		1.1.			-		<u>E 15</u>	-	
On March 25, 1986, at 2203, with P SHUTDOWN), at 0 percent power, a M	ai	n	Ste	am	n Isolatio	n S	yster	n (MSIS	S)		on		

At the time of the event, primary and secondary heat balance was being maintained using the Steam Bypass Control System (SBCS) (JI). Surveillance testing of the Plant Protection System (PPS) (JC) was being conducted for entry into Mode 3 (HOT STANDBY). During the surveillance test, the control room operators received the MSIS. No pretrip or trip indicators were evident; however, all actuation indicators, including Main Steam Isolation Valve (MSIV) (SB) closure, were verified.

of an Engineered Safety Feature (ESF) (JE). All equipment operated as

As an immediate corrective action, two Atmospheric Dump Valves (ADV) (JI) were opened and the appropriate emergency procedure was applied to verify equipment actuation prior to commencing troubleshooting.

The root cause of the event was a cognitive personnel error, since the instrumentation and control (I&C) technicians (contractor) did not adhere to the approved procedure instructions and caution notes. The technicians had completed the testing of MSIS trip paths 1 and 2 on all six actuation matrices. Testing of the third matrix (AC) for trip path 3 was in progress when one of the I&C technicians questioned whether the correct indication had been observed on a previous procedure step. In an attempt to reverify the questioned indication, the lead test performer, contrary to approved procedure instruction steps and cautions, rotated the RELAY TRIP SELECT switch through positions "2" and "1" to the OFF position. This action caused a MSIS initiation signal in trip paths 1 and 2 with the resulting train A and B MSIS actuations.

No system or safety train failures contributed to the event. No unusual characteristics of the work location directly contributed to the event. No safety limits were approached, no fission product barriers were challenged, and all equipment functioned as designed. Therefore, there was no threat to the health and safety of the public. All equipment was restored at 0145, on March 26, 1986. The event lasted approximately 5 hours and 22 minutes.

As a corrective action, the I&C technicians involved in the incident received counselling and appropriate disciplinary action. Additionally, I&C technicians in Units 1, 2 and 3 will attend a training briefing session addressing the following items:

- 1. The specifics of the 3/25/86 Unit 2 inadvertent MSIS.
- Maintaining strict adherence to procedure instructions and cautions.
- Obtaining needed assistance to resolve uncertainties prior to taking action.

No similar events have occurred.

designed.



Arizona Nuclear Power Project

P.O. BOX 52034 . PHOENIX, ARIZONA 85072-2034

April 23, 1986 ANPP-36383-EEVB/PGN/98.05

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

Subject: Palo Verde Nuclear Generating Station Unit 2 Docket No. STN-50-529 (License NPF-46) Licensee Event Report - 86-014-00 File: 86-020-404

Dear Sirs:

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Attached please find Licensee Event Report (LER) No. 86-014-00 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 question, please contact me.

Very truly yours,

E. E. Van Brunt, Jr.

IE22 11

E. E. Van Brunty Jr. Executive Vice President Project Director

EEVB/PGN/dlm Attachment

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