REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

TRIBUTION DEMONSTRATION SYSTEM

2	ACCESSION NBR:9100		DOCKET #	
	FACIL:STN-50-530	Palo Verde Nuclear Station, Unit 3, Arizona Publi	05000530	
	AUTH.NAME	AUTHOR AFFILIATION		
	BRANDISH, T.R.	Arizona Public Service Co. (formerly Arizona Nuclea	ar Power	
	LEVINE, J.M.	Arizona Public Service Co. (formerly Arizona Nuclea	ar Power	
	RECIP.NAME	RECIPIENT AFFILIATION	· R	Ł
	-		-	•

SUBJECT: LER 91-001-01:on 910315, safety valves discovered out of tolerance limits specified in Tech Spec.Caused by setpoint drift.Two PSVs out of tolerance upon initial testing & required adjustment.W/910609 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR | ENCL | SIZE: TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:Standardized plant.

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NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM PI-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

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Arizona Public Service Company PALO VERDE NUCLEAR GENERATING STATION P.O. BOX 52034 PHOENIX, ARIZONA 85072-2034

JAMES M. LEVINE VICE PRESIDENT NUCLEAR PRODUCTION 192-00724-JML/TRB/RKR June 9, 1991

U. S. Nuclear Regulatory Commission Attention: Document Control Desk Mail Station P1-37 Washington, D.C. 20555

Dear Sirs:

Subject:

Palo Verde Nuclear Generating Station (PVNGS) Unit 3 Docket No. STN 50-530 (License No. NPF-74) Licensee Event Report 91-001-01 <u>File: 91-020-404</u>

Attached please find Supplement 1 to Licensee Event Report (LER) No. 91-001 prepared and submitted pursuant to 10CFR50.73. In accordance with 10CFR50.73(d), we are forwarding a copy of the LER to the Regional Administrator of the Region V office.

If you have any questions, please contact T. R. Bradish, Compliance Manager at (602) 393-2521.

Very truly yours,

Samer M. Levine

JML/TRB/RKR/nk

Attachment

cc:

W. F. Conway (all with attachment)

J. B. Martin

D. H. Coe

A. C. Gehr

A. H. Gutterman

INPO Records Center

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NRC Form 366A (9-831 '	· LICENSEE EVENT F	REPORT	(LER	I) TE	ХТ (ONTI	NU	ATIO	N		U.\$.	APPRO		MB NO. 3		
FACILITY NAME (1)			DOCKET	NUMBI	ER (2)				LER	NUMB	ER (6)				PAGE	3)
-								YEAR		NUM	NTIAL BER	RE N	VISION			
	Palo Verde Unit 3		0 5	0	0 0	5 3 [°]	0	9 1	_	0 0	0 1	_ (0 1	0 2	OF	0
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I.	DESCRIPTION OF WHAT OC	CURRED	:													
	A. Initial Conditio	ns:					, .	-								

On March 13 through 15, 1991 Palo Verde Unit 3 was in Mode 1 (POWER OPERATION) at approximately 70 percent power.

B. Reportable Event Description (Including Dates and Approximate Times of Major Occurrences):

Event Classification: Condition Prohibited by the Plant's Technical Specifications.

Palo Verde Unit 3 is a two-loop pressurized water reactor (PWR). Each loop has a vertical U-tube steam generator (SG)(AB) with two outlet main steam lines (SB). Overpressure protection for the shell side of the steam generators and the main steam lines up to the inlet of the turbine (TRB) stop valve (SHV)(TA) is provided by twenty (20) flanged, spring-loaded, direct acting, ASME Code safety valves (RV)(SB) which have open bonnets and discharge to the atmosphere. These safety valves are mounted on each of the main steam lines upstream of the Main Steam Isolation Valves (MSIV)(ISV)(SB) but outside the Containment (CTMT)(NH). The opening pressure of the valves is set in accordance with ASME Code and Technical Specification (TS) requirements. The valves are set to lift sequentially at 1250, 1290, and 1315 pounds per square inch-gauge (psig).

The Main Steam Safety Valves (MSSV)(SB) are required by Technical Specification 4.7.1.1 and the ASME Code to be tested once per five (5) years. The testing is conducted using an approved surveillance test procedure. The surveillance test verifies the actual pressure setpoint and that operation of the MSSVs is acceptable for continued service. The testing is conducted using the Furmanite Trevitest method, which involves the use of hydraulic force to assist in overcoming the closing force of the valve spring. The applied force is measured, recorded, and analyzed to determine lift setpoint. In order to have an acceptable test, three (3) consecutive lifts must be within plus or minus one (1) percent of the nominal setpoint pressure for the valve. The testing sequence involves declaring a safety valve inoperable, installing the testing device, and then testing until three consecutive acceptable lifts are performed. If three consecutive acceptable lifts cannot be made, the valves are adjusted until the acceptance criteria is satisfied. After three successful lifts, the valve is returned to service. The process

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NRC Form 366A (9-83)	LICENSEE EVENT RE	EPORT (LER) TEXT CONTINU		GULATORY COMMISSION OMB NO. 3150-0104 1/88
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,	Palo Verde Unit 3	0 5 0 0 0 5 3 1 0	9,1-0,0,1-0,1	013 OF 0 B
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		ting (where necessary) a		•
	satisfactory resu four (4) hours pe	lts are achieved normall r valve.	y encompasses less th	an
	completed a review Unit 3 from March being conducted a accordance with co settings in Units	, engineering personnel w of data obtained from 13 through March 15, 19 t less than the five (5) orrective action for the 1 and 2 as reported in 88-014-01, 528/89-010-00	MSSV testing conducte 91. This testing was year interval in out-of-tolerance rel Licensee Event	d in
	(20) MSSV as-foun MSSV setpoints we found relief sett deviations from se	ew of the actual test re d relief settings were o re below specification a ings were above specific etpoint of the as-found nt high. The following it 3 MSSVs:	ut of tolerance. Two nd eight (8) MSSV as- ation. The maximum settings was 2.8 perc	(2) ent
	• Six (6) MSS require adj	V relief settings were a ustment;	cceptable and did not	
		SV relief settings were ting and required adjust		
	tolerance of	SV relief settings appea n the initial lift; howe ince subsequent lifts we	ver, no adjustments w	

• Four (4) MSSV relief settings were acceptable on the initial lift, however, subsequent lifts were out of tolerance. Adjustments were necessary to obtain three (3) consecutive acceptable lifts for these safety valves.

Overpressure protection for the primary loops (AB) is provided by four (4) direct acting, spring loaded, stainless steel code safety valves (RV)(AB) with enclosed bonnets. These valves are mounted on the top of the pressurizer. The valve opening pressure is set in accordance with ASME Code and Technical Specification requirements. The valves are all set to lift at 2485 psig plus or minus one percent (2463 to 2510 psig).

The Pressurizer Code Safety Valves (PSVs) are required by TS 4.4.2.2 to be tested once per five (5) years. The PSVs are removed for testing after the plant is shutdown for refueling and

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FACSIMILE LICENSE	EE EVENT REPORT (LER) TEXT CONTINU	IATION	ļ			81
FACILITY NAME	DOCKET NUMBER		LER NUMBER	····-	PAGE	
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Palo Verde Unit 3	0 5 0 0 5 3 0	9 1-		1-011	014 OF	0 18
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sent to an offsite testing facility (Wyle Laboratories). The PSVs are tested in accordance with approved procedures under elevated steam pressure conditions. In order to have an acceptable test, three (3) consecutive lifts must be within plus or minus one (1) percent of the nominal setpoint pressure of the valve. The testing verifies that the set pressure and operation of the PSVs are acceptable for continued service.

On March 16, 1991, Unit 3 shutdown for a planned refueling outage. During the refueling outage, in March 1991, the PSVs were removed and sent to Wyle Laboratories for scheduled testing. On April 2, 1991, engineering personnel (utility, non-licensed) completed a review of data obtained from PSV testing conducted by the offsite testing lab during April 1 and 2, 1991. Three (3) of the four (4) PSV as-found relief settings were out of tolerance. The out-oftolerance lift setpoints were 2.5 percent, 3.3 percent, and 3.4 percent above the required relief setting. The following information is provided concerning the Unit 3 PSVs:

- One (1) PSV relief setting was acceptable and did not require adjustment;
- Two (2) PSV relief settings were out of tolerance upon initial testing and required adjustment; and
- One (1) PSV relief setting appeared to be out of tolerance on the initial lift, however, no adjustments were necessary since subsequent lifts were within tolerance.

Since ten (10) of the twenty (20) MSSV and three (3) of the four (4) PSV as-found relief settings were outside the TS limit, it is assumed that one or more of these valves were outside the TS limit during operation. Therefore it is assumed that the OPERABILITY requirements and the associated ACTIONS were not met for TS 3.4.2.2 and 3.7.1.1.

C. Status of structures, systems, or components that were inoperable at the start of the event that contributed to the event:

Other than the MSSVs and PSVs described in Section I.B, no structures, systems, or components were inoperable which contributed to the event.

D. Cause of each component or system failure, if known:

Not applicable - no component or system failures were involved.

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NRC Form 366A (9-83)	•	LICENSEE EVENT REPOR	T (LER) TEXT CONTINU	JATION	U.S. NUCLEAR REC APPROVED O EXPIRES: 8/31	MB NO. 3		
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			•					
		,						
-	E.	Failure mode, mechanis known:	sm, and effect of ea	ch failed co	mponent, i	f		
		Not applicable - no co	omponent failures we	re involved.				
	F.	For failures of compon systems or secondary b						
		Not applicable - no co	omponent failures we	re involved.				
	G.	For a failure that renestimated time elapsed train was returned to	d from the discovery					
		Not applicable - no fa of a safety system inc		d which rend	ered a tra	in		
, ,	н.	Method of discovery of procedural error:	E each component or	system failu	are or			
		Not applicable - there or procedural errors		nent or syst	em failure	es		
	I.	Cause of Event:						
		The MSSVs and PSVs are X: Other). This is a 528/88-014-01, 528/89 and PSV LERs 528/89-00 experience, indicates is within the expected	a repeat event as re -010-00, 529/89-002- 07-01 and 529/90-004 that relief and saf	ported in MS 00, and 529/ -01. Indust ety valve se	SV LERs 89-007-00 ry and PVN	IGS	ų	
		The Unit 3 MSSVs were refueling outage. The outage as part of the Unit 3 PSVs were last Unit 3 is currently in were tested during the testing program for PS	e MSSVs were tested enhanced testing pr tested prior to ini n their second refue is refueling outage	during this ogram for MS tial startup ling outage.	refueling SVs. The of Unit 3 The PSVs	;		
	J.	Safety System Response	:					
		Not applicable - there were necessary.	> were no safety sys	tem response	s and none	:		

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NRC Form 366A (9-83)	•	LICENSEE EVENT	REPORT (LER) TEX			N,	U.S.	NUCLEAR RE APPROVED EXPIRES: 8/3	омв NO. 3		
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·				•	,			•			
÷	к.	Failed Componer	t Information:					ï	٠		
÷			were no failed co wing data is prov					n this			_
		1. MSSVs:									
		Manufacturer:	Dresser Valve Dresser Indust)ivis	ion				
		Model No:	6" 3707R Conso Type 3700	lidated M	lain S	Steam	Safe	ty Valv	es		
		2. PSVs:		1							
		Manufacturer:	Dresser Valve Dresser Indust)ivis	ion				
*		Model No:	6" 31709NA-1 (Bonnet Maxiflo				1700 (Crossed			
II.	ASSE	SSMENT OF THE SAF	ETY CONSEQUENCES	AND IMPLI	CATIC	DNS O	F THI:	5 EVENT	:		
-	proto stean gene: of the the pres: and	ection for the se m lines up to the rator pressure re he as-found condi design basis acci sure from exceedi the sequential li	he MSSVs are inte condary side from turbine stop val mains below 110 p tion of the safet dents, the MSSVs ng 110 percent of fting scheme woul ould not be compr	the stea ves. The ercent of y valve s would hav steam ge d have en	m ger MSSV desi etpoi e pre nerat	herat Is en Ign p Ints Event Cor d I tha	ors an sure a ressur found ed sys esign t stea	nd main that st te. , Re that f stem pressu	eam view or re		,

occurred in which the MSIVs remained open, overpressure protection could have been automatically provided by the Steam Bypass Control System (SB). In addition, it should be noted that secondary side pressure is monitored by Reactor Operators in the Control Room (NA), and manual overpressure protection is provided by remote operation of the Atmospheric Dump Valves (SB) from the Control Room.

During operation, all PSVs must be OPERABLE to prevent the Reactor Coolant System (RCS) (AB) from being pressurized above its Safety Limit of 2750 psia. The combined relief capacity of these valves is sufficient to limit the system pressure to within its Safety Limit of 2750 psia following a complete loss of turbine generator (TA) load while operating at RATED THERMAL POWER and assuming no reactor trip until the first Reactor Protective System (JC) trip setpoint (Pressurizer

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1	NRC Form 366A (9-83) k	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/68	ION
Ň	FACILITY NAME (1)	DOCKET NUMBER (2) LER NUMBER (6) PAGE (3)	
	ι	YEAR WEAR SEQUENTIAL WAREN	
		Palo Verde Unit 3 0 5 0 0 5 3 0 9 1 0 0 1 0 7 0F 0	8
*	TEXT (If more spece is n	quired, use edditionel NRC Form 366A's) (17) Pressure-High) is reached (there is no direct reactor trip on the loss	
		of turbine) and also assuming no operation of the atmospheric dump valves (SB) (V).	
		An analysis has been performed to determine if the as-found condition discussed in Section I.B could have resulted in the RCS being pressurized above the Safety Limit of 2750 psia. The analysis determined that the Safety Limit would not have been exceeded.	
	III.	CORRECTIVE ACTION:	
	-	A. Immediate:	
		Five (5) MSSVs were out of tolerance upon initial testing and required adjustment. These valves were adjusted and successfully retested. Five (5) MSSVs were out of tolerance upon initial testing and subsequent lifts were within limits. No adjustments were necessary for these valves. Four (4) MSSVs were acceptable upon initial lifts; however, subsequent lifts were out of tolerance and these valves were also adjusted and successfully retested. The remaining six (6) MSSVs were satisfactory on the initial and subsequent lifts, and did not require adjustment. Twenty (20) MSSVs were successfully tested a minimum of three (3) consecutive times.	
		Two (2) PSVs were out of tolerance upon initial testing and required adjustment. One of these PSVs had been previously scheduled for disassembly. No problems were noted that could have affected the valve relief settings. This valve was reassembled, adjusted and successfully retested.	
		One (1) PSV was out of tolerance upon initial testing and subsequent lifts were within limits. No adjustment was necessary for this valve. The remaining PSV was satisfactory on the initial and subsequent lifts and did not require adjustment. Both of the PSVs which did not require adjustment had been previously scheduled for disassembly. These valves were reassembled, adjusted and successfully retested.	-
		B. Action to Prevent Recurrence:	
-		Since field setpoint adjustment was successfully accomplished in accordance with the Technical Manual, no further corrective action is necessary at this time.	ĸ
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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
м		YEAR SEQUENTIAL REVISION NUMBER	
Palo Verde		9 1 - 0 0 1 - 0 1	0 8 0 9 0 8

Due to the tendency toward setpoint drift exhibited by these valves, MSSV testing will continue on a refueling schedule until engineering determines that a longer interval is appropriate. Based on the results of the PSV testing in Units 1, 2, and 3, PSV testing will also be performed on a refueling schedule until engineering determines that a longer interval is appropriate.

An ongoing investigation is in progress to determine if any actions can be taken to reduce the setpoint drift. If any significant actions are identified which reduce setpoint drift, a supplement to this report will be issued.

APS submitted an amendment to the TS to increase the tolerance on the MSSV and PSV setpoints (161-03587-WFC/JSC, dated November 13, 1990).

IV. PREVIOUS SIMILAR EVENTS:

MSSV LERs 528/88-014-01, 528/89-010-00, 529/89-002-00, and 529/89-007-00 described events where MSSVs were out of the tolerance limits specified in Technical Specification 3.7.1.1. Corrective action for these MSSV events included readjustment of the valves and an administrative reduction of the five (5) year testing interval. PSV LERs 528/89-007-01 and 529/90-004-01 described events where PSVs were out of the tolerance limits specified in Technical Specification 3.4.2.2. Corrective action for these PSV events included readjustment of the valves.

Previous corrective actions could not have prevented these events because it would not affect the tendency toward setpoint drift exhibited by the MSSVs and PSVs.

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