LICENSEE	EVENT	REPORT	(LER
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FACILITY	NAME (1)	Palo	Verc	le L	Jnit 1								•	0			5 2 8 1 OF	(3) 1 0
TITLE (4) A	dvers			-		n Se	et on l	Fishe	r Air	Oper	ated	L	etdown	/Co	ntainme	nt l	solation Valves	s
EV	ENT DATE	(5) YEAR	YEAR	1.0000	ER NUMBER		REVISION		PORT DA	TE (7)			FACILIT		HER FACILITIES		OLVED (8) KET NUMBERS	
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015	1 2	9 5	915		0 0 7	_	012	012	210	97	. – –	1	Palo Ven	de U	Init 3	0	50053	3 0
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LEVEL		010	H		~~~~				6(c)(Z)		ŀ		50.73(a)			x	OTHER (Specify in Abst	mact
			┢╼┥		5(2)(1)(1)				3(a)(2)()		ŀ		50.73(a)		(A)	ᅀ	below and in Text, NRC	
					5(a)(1)(h)				S(a)(2)(ii)		ŀ	-	50.73(a)			Į	306A)	
					5(a)(1)(/)				S(a)(Z)(iii)		F		50.73(a)				•	
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NAME							·								TELEPHONE N	UMB	ER	
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لــــــ				5	UPPLEMENTA	L REI	PORTEXP	ECTED (1	4)	ä. <u> </u>	<u> </u>	_		+-	EXPECTED	<u></u>	MONTH DAY	TEAR .
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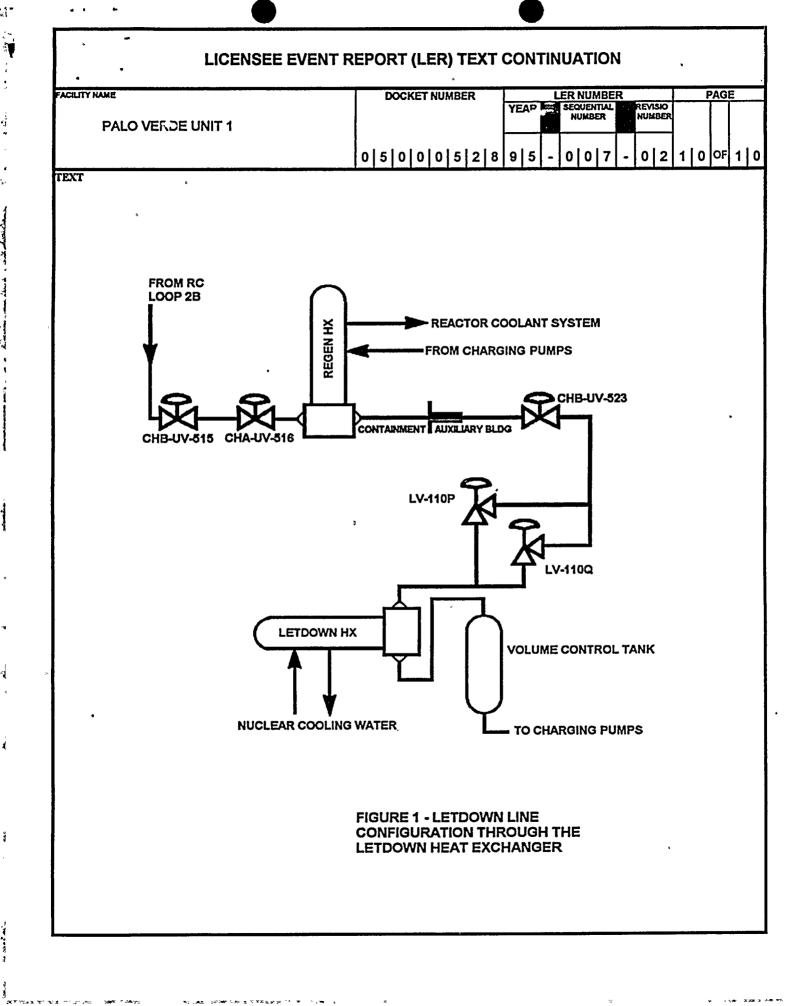
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACIL	ΥTL	NAME	

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PALO VERDE UNIT 1

DOCKET NUMBER	1
	YEAR
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0 2 OF 1 0

TEXT 1. EVENT CLASSIFICATION

This LER (50-528/529/530/95-007) was previously submitted pursuant to Technical Specification (TS) 6.9.3 (Violations to the requirements of the fire protection program) and 10CFR50.73 (a)(2)(vii) (Any event where a single cause or condition caused at least one independent train or channel to become inoperable in multiple systems...). However, upon further review it has been determined that the condition did not meet these reporting requirements and is now being reported voluntarily, because it is likely that other plants may have made, but not discovered, the same errors.

2. EVENT DESCRIPTION

On May 12, 1995, Unit 1 was in Mode 5 (COLD SHUTDOWN) with reactor coolant system (RCS) (AB) temperature at 95 degrees Fahrenheit (F) and at atmospheric pressure, and Units 2 and 3 were in Mode 1 (POWER OPERATION), operating at approximately 100 percent power, when APS Engineering personnel (utility nonlicensed) determined that the bench settings of the air-operated letdown/containment isolation valves adversely affected the ability of the valves to perform their 10CFR50 Appendix R safety function to isolate letdown. APS Engineering initially determined that during postulated fires in fire zones outside of the control room (NA) a condition could exist in which the letdown line would not be efficiently isolated in accordance with the existing Pre-Fire Strategies and as required by 10CFR50 Appendix R.

Figure 1, page 10, illustrates the letdown system. The following Unit 1, 2, and 3 letdown line isolation valves were affected by this event: CHB-UV-515 Upstream Containment Isolation Valve, CHA-UV-516 Downstream Containment Isolation Valve, and CHB-UV-523 Outside of Containment Letdown Isolation Valve.

Prior to the event, on April 14, 1995, during Local Leak Rate Testing (LLRT) the as-found leakage rate for Unit 1 air-operated valve (AOV) CHB-UV-523 was quantified at 24,631 standard cubic centimeters per minute (sccm) while the administrative acceptance criteria is </= 500 sccm. The previous LLRT which had been performed on September 27, 1993, resulted in a leakage rate of only 22 sccm for this same valve. Diagnostic testing results revealed the bench set (the lower and upper pressure range required to stroke the actuator) was low at 18-34 pounds per square inch gauge (psig).Subsequent diagnostic testing using a Fisher "Flow Scanner" indicated the valve could not achieve the desired seating force with the vendor recommended bench setting of 22-38 psig.

On April 19, 1995, as-found testing of Unit 1 CHB-UV-515 was performed and it was revealed that the as-found lower bench set was 10 psig. The bench set was raised to the Fisher Controls International (FCI) recommended 22-38 psig, but diagnostic software indicated the valve would not seat under full system pressure. The bench set was raised to 24-40 psig to achieve an indicated positive seating load.

On April 20, 1995, APS Engineering personnel performed a preliminary calculation to determine whether the bench setting recommended by FCI for the letdown/containment AOVs was adequate to achieve seat leakage requirements. The preliminary calculation indicated the existing bench set values were too

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	PALO VERDE UNIT 1		YEAR	SEQUE	JER	REVISION			,
•		0 5 0 0 0 5 2 8	95-	00	7	- 0 2	0 3	OF	10
TEXT	low, and none of the valves could system pressure of 2485 psig. At to determine the bench set press system pressure. The calculation to be 38 psig, and the upper set shutoff at 2485 psig.	nother preliminary of ure required to ach n revealed the low l	calculat Leve shu Dench se	tion utoff etpoi	was at nt w	perfor 2485 p rould h	sig ave		
1	APS Engineering personnel contact calculation to determine if the 38-58 psig bench set without comp interference). FCI's evaluation could not withstand a 38-58 psig associated spring.	667 DBQ/60 actuator promising the valve indicated the model	could h spring 667 Di	be se (in BQ/60	t up term act	to th s of c uator			
	On May 6, 1995, modifications whi limit switches, adjustment of the pressures were completed for the	e valve stroke lengt	ch, and	tor s revi	prin sed	igs, ne bench	w set		
. <u> </u> 	On May 11, 1995, APS Engineering consequences of the 667 DBQ/60 ac system pressure of 2485 psig and The APS Engineering team determin acting in series were capable of associated with a break of the la team determined that all safety is being performed except for the is postulated fire in certain fire valve may be available, assuming	ctuators' inability the impact to the of ned through calculat closing against the etdown line. Furthe functions for these solation of the leto zones outside contai	to achi operatin cions the differ er, the valves down lin	ieve ng Un nat t renti APS were ne du where	shut its wo v al p Engi cap ring onl	off at 2 and valves ressur neerin able o a y a si	3. e g f		
ł	On June 30, 1995, FCI completed jack sizing of the AOVs provided Generating Station (PVNGS). The original actuator selection prob sizing review which did account order for the valves was placed. information to indicate that the sized to account for graphite part In addition, FCI provided docume actuators were needed for some a actuators were not changed becaut of [size 60] operability testing	to ABB-CE for use a evaluation conclude ably did not account for packing friction FCI's evaluation of January 1, 1977 shi cking (reference NRG ntation that sizing pplications and stat se of equipment avai	at Palo ed that t for pa n was po did not ip date C IN 88 reviewa ted "Fis	Verd alth ackin erfor for -94), s ind sher	e Nu ough g fr med al a actu ,was icat beli	aclear a the ciction after after ators, a in er ced lar eves t	, a the ror. ger he		
	On or about October 15, 1995, du letdown line valve testing revea range pressure of 14.4 psig. By 3 CHB-UV-515, CHA-UV-516, and CH The modifications included stiff adjustment of the valve stroke 1	led that CHB-UV-515 November 17, 1995, B-UV-523 valve actuator springs	had a l modific ators ha , new l:	bench catic ad be imit	set ns t en c swit	: lower to the complet ches,	Unit		
í I	On December 15, 1995, dynamic te performed. The test results dem required to mitigate design basi	onstrated that the	CHA-UV valve w	-516 ould	valv perf	ve was Iorm as			

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ILITY	PALO VERDE UNIT 1	DOCKET NUMBER LER NUMBER PAG YEAR SEQUENTIAL REVISION 0 5 0 0 0 5 2 8 9 5 - 0 0 7 - 0 2 0 4 0F
ст		
I	There were no safety system actu were necessary.	ations as a result of this event and none
	3. ASSESSMENT OF THE SAFETY C	CONSEQUENCES AND IMPLICATIONS OF THIS EVENT
	performed by the affected letdow Containment Isolation (CHA-UV-51 Chapter 15 Letdown Line Break Ou CHA-UV-516); 3) Isolation of a h line in the Auxiliary Building (of the letdown line for Reactor Appendix R fire scenarios (CHB-U	<pre>ined the following safety functions are m/containment isolation valves: 1) .6 and CHB-UV-523); 2) Mitigation of UFSAR itside Containment (NH) Event (CHB-UV-515 and igh energy line break (HELB) of the letdown NF) (CHB-UV-515 and CHA-UV-516); 4) Isolation Coolant inventory control for 10CFR50 V-515, CHA-UV-516 and CHB-UV-523); and 5) on receipt of a Safety Injection Actuation and CHA-UV-516).</pre>
	personnel assessed the impact of be provided by a series combinat leak rate was then determined as two valve isolation. These anal	performed by the valves, APS Engineering low bench set and determined isolation could ion of the isolation valves. The net system a function of RCS pressure, based upon the yses assumed that for a letdown line break lding atmosphere, two of the three valves in isolation.
I	valve isolation, considering low	leted to assess the consequences of single bench set. These analyses provided ilding HELB and 10CFR100 evaluations.
	Two Valve Isolation Evaluation:	
	relative pressure differen The effect of the downstre higher back-pressure on th pressure differential acro closing and a larger seat seat. The analyses show t adequate seat force to res line to less than 1 gpm un	function to provide isolation at a higher tial than that achieved by a single valve. am valve of the two valve pair is to impose a e upstream valve. The corresponding reduced ss the first valve results in the valve force after the valve plug is engaged in the hat series isolation valves will provide trict the net leakage through the letdown der pressure differential conditions rating of the letdown line.
	Single Valve Isolation Evaluatio	n:
]	upstream of the outboard c single failure of either o The analyses demonstrate t as-found case 10 psig lowe pressure of 1120 psia. A c	le for a postulated letdown line break ontainment isolation valve with concurrent f the other two inboard isolation valves. hat a single isolation valve with the worst r bench set will close at a differential onservative mass flow rate was established sequently used as input in the 10CFR100 and

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CILITY	NAME		DOCK		MBE	R				LER	NUM	BER		-	PA	GE	
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		015	. 0	0 0	.5	2	8	9 5	;] _	- 0	0	7 -	01	20	15	DF	1
EXT	Consequences of a HELB at the Con		ł		l				_	1			. I I.	_!	<u>I I -</u>		
	A terminal end break at the CHB-UV-523 in conjunction we results in the single value evaluation using the conser- attempted single value isol acceptable offsite dose con Likewise, the effect of sin Building environment was evaluation	ith vat: ations gle	a s olat ive on a uenc val	ingl ion mass t 10 es b ve i	e fa sce fl ps elo sola	ai: ow ig w (at:	lur rio ra bei cho: Lon	e of des te c nch se i on	E C scr let se ceq th	CHB- cibe cerr et 1 qui1 ne 2	-UV- ed al ninec resul red l Auxil	515 ove f f tec y 1 .iai	to d br l in LOCFH	n			
	Radiological Consequences:																
	APS performed a confi as-found bench set pr determine the 2 hour (EAB) resulting from The calculation concl Building would result dose of 22.49 Rem.	essi thy: a lo ude:	ires coid etdo s th	, an dos wn l at t	d a e a ine he l	cti t (b) RCS	al he ea 5 r	RCS exc k ou elea	s a :lu its ise	icti isic ide to	ivity on and e of o the	v le cea cor e Au	vels bour tair xili	to dar men ary	y t.		
I	Standard Review Plan event are acceptable small fraction (10 pe guideline is 300 Rem. the additional leakag applicable criteria.	if (rce) Te	che nt) en p	resu of 1 erce	ltin OCFI nt (ng R1(of	do:)0 q th:	se c guid Ls i	loe lel .s	es r .ine 30	not e es. Rem.	xce The I	ed a 100 here	FRI	00		
	Auxiliary Building Environm	ent	:														
	APS performed an eval delayed isolation dur bench set pressures o CHB-UV-523. The eval building elevations a auxiliary building as consequences of these Injection Actuation S approximately 21 minu	ing f vat nd a la igna	a l alve ion cons cesu cger al (etdo s CH assu ider lt c mas BP/B	wn B-U med ed f d s r Q)	lir V-S lar ela ela	he 1 515, ceal cge: ayeo easo ll 1	orea , CH ks a r ma d is es i ce i	ik IA- it iss sol .s .ni	sce UV- two re ati tha	enari -516 o sep eleas ion. at a ated	o c anc ara es Th Saf	lue t l ite to t ne Tety	0 10	ow		
	The effect of transie humidities created in postulated line break of safe shutdown equi	the wor	e au 11d	xili	ary	b١	ιĪΙ	ding	јa	as a	a res	ult	: of	a	n		
	Appendix R Fire Hazards Analysis:																
	APS engineering determined condition did not impact th shutdown in the event of a room.	e al	sili	ty t	oā	chi	lev	e ar	nd	maj	Intai	.n s	afe				

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LICENSEE EVENT RI	EPORT (LER) TEXT CONTINUATION
PALO VERDE UNIT 1	DOCKET NUMBER LER NUMBER PAGE YEAR SEQUENTIAL REVISION NUMBER NUMBER
	0 5 0 0 0 5 2 8 9 5 - 0 0 7 - 0 2 0 6 0 1
two valves must be shown to area. Control room fire str control room call for closi cooling water pumps, which the control room. Therefor function can be performed w strategy for fires outside CHB-UV-515 or CHA-UV-516, d corresponding A or B train only one valve can be curre outside the control room. For fires outside of the co Train B analysis areas, the Safety Injection system (BQ resultant losses to RCS inw the control room in Train A and High Pressure Safety In make-up for any losses to F charging pump is available actions. Therefore, safe s	n as assumed in the fire hazards analysis, o be available for a fire in any analysis rategy guidelines for fires inside the ing CHB-UV-515 and securing the nuclear will cause CHB-UV-523 to close, from outside re, two valves are closed and the isolation with the current bench sets. The fire the control room calls for closing either dependent on the analysis area and circuits potentially affected. Therefore, ently assumed to close for analysis areas ontrol room, wherein the fire is located in e Train A Charging Pump(CB) and High Pressure Q) are available to provide make-up for ventory. Similarly, if a fire occurs outside A analysis areas, the Train B Charging Pumps njection system are available to provide RCS inventory. In addition, the third and can be used with additional operator shutdown would have been achievable.
were implemented which press required until the valve mo measures ensured that in th two letdown isolation valve opens the disconnect switch specified auxiliary relay of potentially affected. Other close the subject letdown val areas where the letdown val Although these measures are	described in the pre-fire strategies manual, scribed certain operator actions that were odifications could be completed. The he event of a fire outside the control room es were closed. Essentially, the action h which fails the valve closed at the cabinet for the valve whose circuits are erwise the operator can manually close/ensure valves from the control room for analysis lve circuits are not affected by fire. e no longer required, they have been left in asure to ensure letdown line isolation.
letdown/containment isolation val not represent a deficiency in des safety function.	onstrate the low bench set for the lves on a letdown line break scenario does sign which could result in the loss of a
or result in any releases of radi safety consequences or implication	challenges to the fission product barriers loactive materials. There were no adverse ons as a result of the event. This event did eration of the plant or the health and safety
4. CAUSE OF THE EVENT	
An evaluation of the event was pe	erformed in accordance with the APS corrective

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An evaluation of the event was performed in accordance with the APS corrective action program. The results of the investigation revealed that the cause of the valve actuators being undersized was that the Palo Verde Nuclear Steam Supply

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	LICENSEE EVENT R	EPORT (LER) TEXT	CONT	INU	ΙΑΤΙΟ	N			r	i
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	PALO VERDE UNIT 1		YEAR	3	EQUENTIA NUMBER		REVISION NUMBER		•	۸ ۱
		0 5 0 0 0 5 2 8	95	- (D (0 7	-	0 2	0 7	OF	1 0
TEXT 	System vendor (ABB-CE) procured of bench sets which were too low to differential pressure which would line break. The evaluation did of was approved by the Architect En- organization (APS). The root can the absence of a detailed design of an AOV program (SALP Cause Con Construction/Installation Error)	provide desired va d be present across not reveal whether (gineer (Bechtel) or use of the design do basis evaluation fo de B: Design, Manufa	Lve se the v the pr the m eficie or air acturi	ati valv cocu nana ency cop .ng,	ng fo res du remen ging was erate	rce rin t o own att d v	for g a l f the er ribut alves	the etdo val ed t as	ves o	
	The cause of the as-found bench a FCI recommended bench sets is be maintenance activities. APS det set pressures were adequately de however, these instructions may a maintenance activities. A review revealed instances where some of removed from the valve to perform is believed the vendor technical explicitly followed when the ope changes to the stroke length of pressures. No unusual characteristics of the	lieved to be the reservanced that instructs scribed within the based within the based within the based performed w of the maintenance the air operators to manual instructions rators were returned the valves and subsections	sult o ctions Fisher rmed a e hist were d gaske s may d, whi equent	of c fo fo fo fo fo fo fo fo fo fo fo fo fo	ertai or res chnic or som of t couple eplac chave resul the b	n r tor al : he d a eme ted enc	outin ing b manua valve nd/or nts. en in h set	e ench ls, s It		•
1	5. STRUCTURES SYSTEMS AND COM	o this event.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			- •				
	The three Unit 1 isolation valve condition was identified. Unit inoperable as a result of this e	2 and 3 isolation v	to be alves	e op wer	erabl e not	e w de	hen t clare	he d		
	The potential failure mode of th a differential pressure of 2485 of the component is the sizing a effect of through-seat leakage i flow as efficiently as desired. safety system inoperable were in	psig. The mechaniss nd bench setup of t s that the valves m No failures that r	m of t he val ay not	che Lve c is	poten opera solate	tia tor le	l fai . Th tdown	lure le	-	
n -	The low bench settings were disc was quantified at 24,631 sccm. "Flow Scanner" indicated the val with the vendor recommended benc gauge (psig).	Subsequent diagnost ve could not achiev	ic tes e adec	stir quat	ng usi ce sea	.ng tin	a Fis Ig for	ce		
,	All of the valves affected by th model 667 DBQ/60 actuators. The valves' functions.	is event are 2" glo following is a bri	be val ef des	lve: scri	s with lptior	Fi of	sher the			
1	CHB-UV-515 Upstream Containment	Isolation Valve								
	This air diaphragm open, s isolation, system protecti	pring-closed globe on, and emergency s	valve afety	pro fea	ovides atures	fc	or let It ma	down ay be	n 9	

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•	LICENSEE EVENT REPORT	ſ (LER) TEXT	CONTINUATION	
FACILITY	PALO VERDE UNIT 1	CKET NUMBER		PAGE VISION JMBER
		00528	9 5 - 0 0 7 - 0	2 0 8 OF 1 0
TEXT	Closed manually in the control ro or, upon receipt of a high-high r temperature of 450°F or a Safety this valve is closed automaticall electrical power or air. It also shutdown panel (IU).	egenerative Injection Ac .y. The valve	heat exchanger (CB) tuation Signal (SIA e fails closed on l	outlet S), oss of
	CHA-UV-516 Downstream Containment Isola	tion Valve		
· [This air diaphragm open, spring-c for letdown isolation and emergen manually in the control room or o receipt of a Containment Isolatio SIAS, this valve is closed automa loss of electrical power or air.	cy safety fea on the remote on Actuation S	atures. It may be shutdown panel, or Signal (CIAS)(BD)(J	closed , upon E) or
	CHB-UV-523 Outside Containment Letdown	Isolation Val	ve	
	This air diaphragm open, spring-cla isolation and emergency safety feat upon receipt of a CIAS or a low nuc gpm from the letdown heat exchanges valve fails closed on loss of elect	tures. It ma clear cooling r, it is clos	y be closed manual water (CC) flow of ed automatically.	Ly, or, E 39
	No safety systems were declared inopera	ble as a resu	lt of the event.	-
	6. CORRECTIVE ACTIONS TO PREVENT REC	URRENCE		
].]	The affected isolation valves in Units the stroke length of the actuator, repla stiffer 3320 pound per inch spring, mod switches, and increasing the bench set: configuration will meet or exceed all re- isolation.	acing the exi ifying the tr ings to 24-40	sting spring with a avel stops and lim psig. The new	a. –
	Compensatory measures, as described in a implemented which prescribed certain op- until the valve modifications could be no longer required, they have been left ensure letdown line isolation.	erator action completed. Al	s that were require though these measu	ed res are
I	Evaluations have been performed for act having sizing problems. Valves which we marginal seating force for their applica APS corrective action program.	ere identifie	d as having low or	
	A departmental procedure has been writte implementation of the AOV program at PV	en to provide NGS.	guidance for the	
	Mechanical and Instrument & Control team and diaphragm AOVs were briefed on valve proper bench set, how to obtain proper b testing is required.	e maintenance	activities that ef	fect

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PALO VERDE UNIT 1		YEAP SEQUENTIAL REVISIO NUMBER NUMBER	-
	0 5 0 0 5 2 8	8 9 5 - 0 0 7 - 0 2	09
7. PREVIOUS SIMILAR EVEN	τs		
Voluntary LER 50-528/94-09-0 through seat leakage.		ne Unit 1 CHB-UV-515	•
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