

A subsidiary of Pinnacle West Capital Corporation

Palo Verde Nuclear Generating Station Dwight C. Mims Vice President Regulatory Affairs and Plant Improvement

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102-06212-DCM/RAB/FJO July 06, 2010

ATTN: Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555-0001

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS) Units 1, 2, and 3 Docket No. STN 50-528, STN 50-529, and STN 50-530 License No. NPF 41, NPF 51, and NPF 74 Licensee Event Report 2010-002-00

Enclosed please find Licensee Event Report (LER) 50-528/2010-002-00 that has been prepared and submitted pursuant to 10 CFR 50.73. This LER reports a calculation error that resulted in operation prohibited by technical specifications that affected all three units.

In accordance with 10 CFR 50.4, copies of this LER are being forwarded to the NRC Regional Office, NRC Region IV and the Senior Resident Inspector. If you have questions regarding this submittal, please contact Marianne Webb, Section Leader, Regulatory Affairs, at (623) 393-5730.

Arizona Public Service Company makes no commitments in this letter.

Sincerely.

FOR D.C. MIMS

DCM/RAB/TNW/FJO

Enclosure

cc: E. E. Collins Jr. J. R. Hall L. K. Gibson R. I. Treadway NRC Region IV Regional Administrator NRC NRR Project Manager - (send electronic and paper) NRC NRR Project Manager - (send electronic and paper) NRC Senior Resident Inspector for PVNGS

A member of the **STARS** (Strategic Teaming and Resource Sharing) Alliance •Callaway • Comanche Peak • Diablo Canyon • Palo Verde • San Onofre • South Texas • Wolf Creek

NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION						SSION	APPROVED BY OMB: NO. 3150-0104 EXPIRES: 08/31/2010								
(9-2007)							Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the								
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NRC FORM 366 (9-2007)

NRC FORM 366A		U.S. NUC	LEAR REGU	JLATORY COMMISSION
	EE EVENT R	EPORT (LER) I SHEET		
1. FACILITY NAME	2. DOCKET	6. LER NUMBER		3. PAGE
Palo Verde Nuclear Generating Station Unit 1	05000528	YEAR SEQUENTAL NUMBER 2010 002	REVISION NUMBER	2 OF 4
		2010 002	00	
17. NARRATIVE (If more space is required, use additional cop All times are Mountain Standard T			wise indi	cated.
1. REPORTING REQUIREMENT	(S):			
This Licensee Event Report (LER) 50.73(a)(2)(i)(B) as an operation pr Condition for Operation (LCO) 3.6.3 operable.	ohibited by T	echnical Specification	is (TS) Li	
2. DESCRIPTION OF STRUCTU	RE(S), SYST	EM(S) AND COMPO	NENT(S)):
Each of Palo Verde's units contains provide high pressure saturated ste steam lines (total of four per unit). Steam Isolation Valve (MSIV) (EIIS and SG-UV171 and SG-UV181 for Steam Isolation Signal (MSIS). A c steam lines downstream of the MSI	eam to the ma Each of the r S SB / ISV): SG 2. The N common head	ain turbines through tw nain steam lines is isc SG-UV170 and SG-U /ISIVs close upon the	vo 28 inc lated by V180 for receipt o	h main a Main SG 1; f a Main
One main steam line from each SG (EIIS: SB / ISV). The MSIBV SG-U SG-UV183 bypasses MSIV SG-UV Anchor Darling Models 93-15199 a	JV169 bypas: /171 from SG	ses MSIV SG-UV180 2. The valve and act	from SG	1 and MSIBV
The MSIBVs are 4 inch air operated MSIBVs and spring force closes the actuators. The MSIBVs close on a signal.	e MSIBVs wh	ien the air pressure is	vented f	rom the
The MSIBVs may be opened to wa the MSIVs to permit opening of the open and closed for surveillance te close upon receipt of a MSIS. The receipt of low steam generator pres containment pressure.	MSIVs durin sting require MSIS actuat	g plant startup. The M ments. The safety fur es to close the MSIVs	ASIBVs a action of and MS	are stroked the MSIBV is to IBVs upon
3. INITIAL PLANT CONDITIONS	:			
On May 7, 2010, Unit 1 was in Moo Unit 3 were at approximately 100 p				

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ACILITY NAME ear Generating Station Unit 1 space is required, use additional copu- tructures, systems, or con T DESCRIPTION: 2010, during a review of actuator sizing, Palo Ver- could not demonstrate th 9 and SG-UV183) when the calculation error applie uring original plant constr s personnel declared the CO 3.6.3, Containment Iso tration flowpath isolated to and the MSIBVs were no	mponents the de identified he available the SG press to all three fuction. MSIBVs inopolation Valve o comply wit ot required to	YEAR 2010 at were a deficie closing f sure is a e units, a perable i es, and e	on style A orce woul bove 700 ind unders n all three nsured th nditions o	e th e th ld fu psi. size	Perate NUMBER 00 at cont at cont of cont ilculation ilculation illy close Furth of valve its. Un ISIBVs	a OF 4 a OF 4 a OF 4 b Alve (AOV) on. The se the MSIBVs her evaluation e actuators wer hit 2 and Unit 3 s were closed w
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SSMENT OF SAFETY C	ONSEQUEN	NCES:				
Vs are not required to obt	tain safe shu	itdown, a	and are no	orma	ally clo	sed valves.
valuation was performed determined this condition en. Therefore, the calcul riously analyzed in the PV	n was bound lation error d	led by th Jid not re	e existing sult in a c) Ma conc	in Stea dition m	am Line Break nore severe tha
/s to close with SG press s to the fission product ba	ures above [*] arriers or res	700 psi. ult in the	The cond release c	dition of ra	n did n dioacti	ot result in any
E OF THE EVENT:						
• • •	ss and the r	esults wi	ll be conv	veye	ed in a s	supplement
	viously analyzed in the P s no actual impact to the I /s to close with SG press s to the fission product ba 00 offsite dose criteria we SE OF THE EVENT:	viously analyzed in the PVNGS UFSA s no actual impact to the health and sa /s to close with SG pressures above s to the fission product barriers or res 00 offsite dose criteria were never cha SE OF THE EVENT:	viously analyzed in the PVNGS UFSAR, Chap is no actual impact to the health and safety of t /s to close with SG pressures above 700 psi. is to the fission product barriers or result in the 00 offsite dose criteria were never challenged SE OF THE EVENT: investigation is in progress and the results wi	viously analyzed in the PVNGS UFSAR, Chapter 15, Ac s no actual impact to the health and safety of the public /s to close with SG pressures above 700 psi. The cond s to the fission product barriers or result in the release of 00 offsite dose criteria were never challenged or exceed SE OF THE EVENT:	viously analyzed in the PVNGS UFSAR, Chapter 15, Accide s no actual impact to the health and safety of the public as /s to close with SG pressures above 700 psi. The conditio s to the fission product barriers or result in the release of ra 00 offsite dose criteria were never challenged or exceeded SE OF THE EVENT: : investigation is in progress and the results will be conveye	viously analyzed in the PVNGS UFSAR, Chapter 15, Accident Analysis no actual impact to the health and safety of the public as a resul /s to close with SG pressures above 700 psi. The condition did n is to the fission product barriers or result in the release of radioact 00 offsite dose criteria were never challenged or exceeded. SE OF THE EVENT:

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NRC FORM 366A		U.S. NUCLEAR REGU	JLATORY COMMISSION					
(9-2007) LICENSEE EVENT REPORT (LER) CONTINUATION SHEET								
1. FACILITY NAME	2. DOCKET	6. LER NUMBER	3. PAGE					
Palo Verde Nuclear Generating Station	05000528	YEAR SEQUENTAL REVISION NUMBER NUMBER	4 OF 4					
Unit 1		2010 002 00	4 OF 4					
17. NARRATIVE (If more space is required, use additional cop	ies of NRC Form 3	66A)	· .					
7. CORRECTIVE ACTIONS:								
closed with their penetration flowpa 3.6.3. Following Unit 1's refueling c	The immediate corrective actions for Unit 2 and Unit 3 were to ensure the MSIBVs were closed with their penetration flowpath isolated to comply with the conditions of TS LCO 3.6.3. Following Unit 1's refueling outage, the MSIBVs were closed and isolated to comply with TS LCO 3.6.3 prior to the SG pressure reaching 700 psi.							
Additional corrective actions will be conveyed in a supplement to this LER.								
8. PREVIOUS SIMILAR EVENTS								
No similar events involving a non-co been reported by PVNGS in the last			alve have					