# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

### REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

DOCKET # ACCESSION NBR:9002150017 DOC.DATE: 90/01/05 NOTARIZED: NO 05000530 FACIL:STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi AUTHOR AFFILIATION AUTH.NAME Arizona Public Service Co. (formerly Arizona Nuclear Power Arizona Public Service Co. (formerly Arizona Nuclear Power BRADISH, T.R. LEVINE, J.M. RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 89-011-00:on 891206, missed ASME surveillance test on generator air start sys check valve. ltr. W/8

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 192-00614-JML/TRB/DAJ January 5, 1990

JAMES M. LEVINE VICE PRESIDENT NUCLEAR PRODUCTION

> U. S. Nuclear Regulatory Commission Document Control Desk Washington, DC 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS) Unit 3 Docket No. STN 50-530 (License No. NPF-74) Licensee Event Report 89-011-00 File: 89-020-404

Attached please find Licensee Event Report (LER) No. 89-011-00 prepared and submitted pursuant to 10CFR50.73. In accordance with 10CFR50.73(d), we are herewith forwarding a copy of the LER to the Regional Administrator of the Region V office.

If you have any questions, please contact T. R. Bradish, Compliance Supervisor at (602) 393-3531.

Very truly yours, James M. Jevine

JML/TRB/DAJ/kj

Attachment

cc: W. F. Conway (all w/a) E. E. Van Brunt

- J. B. Martin
- T. J. Polich

A. C. Gehr INPO Records Center

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NRC Form 366 (9-83)										RY COM	
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YES (If yes, complete EXPECTED			X NO					"			
when APS en testing had the Train " have been p returned to required pu The cause o action, the	ately 1715 i gineering p not been p B" emergency erformed wh service on trsuant to T f the event procedures been no pre	MST on De ersonnel erformed y diesel en the T Novembe echnical was insu are bein	ecember discove on a Tr generat rain "A r 18, 19 Specif: ufficien ng revis	ered rain tor. ' air 989. icati nt pr sed.	that "A" a The star The on 4. ocedu	quarterly ir start surveilla t system surveilla 0.5. ral contr	ASME su system cl ince test compress ince test cols. As	rveil heck ing s or wa ing i corr	lanc valv houl s s	e for d.d	

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U.S. NUCLEAR REGULATORY COMMISSION (689) . LICENSEE EVENT REPORT (LER) TEXT CONTINUATION			APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUGGET, WASHINGTON, DC 20503.			
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
Palo Verd		0 15 10 10 10 1 51 31 (	819 - 01 11 1	010 012 05 016		
TEXT (If more space is required, use a I. DES	ddrional NRC Form 365A'3) (17) CRIPTION OF WHAT	OCCURRED:				

## A. Initial Conditions:

At the time of event discovery on December 6, 1989, at approximately 1715 MST Palo Verde Unit 3 was in Mode 4 (HOT SHUTDOWN) at approximately 2250 pounds per square inch-absolute (psia) and 335 degrees Fahrenheit (F). As described in Section I.B, the Train "B" Emergency Diesel Generator (EK)(DG) was returned to service on November 18, 1989, at approximately 1050 MST without performing a required ASME Section XI surveillance test. On November 18, 1989, Palo Verde Unit 3 was in Mode 5 (COLD SHUTDOWN) during a refueling outage. Subsequently, Palo Verde Unit 3 entered Mode 4 at approximately 0507 MST on November 28, 1989; entered Mode 3 (HOT STANDBY) at approximately 1453 MST on November 29, 1989; re-entered Mode 4 at approximately 0446 MST on December 6, 1989; and re-entered Mode 3 at approximately 0546 MST on December 12, 1989.

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

Event Classification: Condition prohibited by the plant's Technical Specifications.

On December 6, 1989 at approximately 1715 MST, APS engineering personnel (utility, non-licensed) discovered that required ASME Section XI surveillance testing had not been performed on an ASME Code Class 3 check valve (Valve I.D. No. 3P-DGB-V497) in the Train "A" air start system (LC) for the Unit 3 Train "B" emergency diesel generator. The surveillance testing is required pursuant to Technical Specification 4.0.5.

Palo Verde Unit 3 has two, redundant emergency diesel generators. Each emergency diesel generator has two, redundant air start systems. Each air start system consists of an air compressor (CMP), air start receiver (TK), and associated piping and valves (V). The air compressors are not required for emergency diesel generator operability since an adequate air supply is stored in each air start receiver. Various valves in the air start system are required to be periodically surveillance tested in accordance with ASME Section XI requirements pursuant to Technical Specification 4.0.5. 4

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	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150 0104	
(689) LICENSEE EVENT REPORT (L TEXT CONTINUATION	EXPIRED ONE NO. 3150004 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 500 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 2055, AND TO THE PAPERWORK REDUCTION PROJECT (3150 0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.		
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3) YEAR SEQUENTIAL REVISION NUMBER	
Palo Verde Unit 3 TEXT (If more space is required, use addrooned NRC Form 3664's) (17)	0  5  0  0  0   5   3   0	819-01111-0100130F016	
Each air start train the outlet of the ai each train) are requ ensure that they will diesel generator. M surveillance procedu diesel is to test th quarter, the Train " quarter, and both ch Satisfactory testing generator starts uti Prior to the event, on the Train "A" air diesel generator whi used in an emergency was in Mode 6 (REFUE had last been tested due to be tested aga Train 'A" air start therefore, the air s Since the valve was air start check valv administratively ino includes the 25 perc Specification 4.0.2) the check valve surv compressor was to be During the refueling was repaired and ret approximately 1050 M the Train 'A" air st Subsequently, the Tr service for maintena 1989. Since the Tra the Train "B" compre (utility, non-licens readings) adequate a receiver. As a resu administratively ino considered to be out emergency diesel gene	ir start receiver. Aired to be tested I not restrict air Normal practice in ares for verifying a Train "B" check "A" check valve the beck valves the thi is exhibited when lizing the appropr on April 15, 1989, " start compressor ch stated that the " due to high vibra LING). The Train I satisfactorily on din in May 1989. He compressor was sti- start check valve we not tested, the sur- re elapsed and the perable on approxim- ent extension allow . It was not iden "eillance testing wa returned to service on ST; however, the As- art check valve was ain "B" air start of sor was out of service in "A" air start sy ssor was out of service. This erator administration on approximate. Start pressure in the trainer of service. This erator administration.	as not surveillance tested. rveillance interval for the valve became mately June 3, 1989 (This wed by Techncial tified that performance of as required when the air ce. "A" air start compressor n November 18, 1989, at SME surveillance testing for s not performed. compressor was removed from ly 1100 MST on November 18, ystem was now in service and rvice, operations personnel ue to verify (i.e., take log in the Train "B" air start air start system was ain "B" air start system was rendered the Train "B"	

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NRC FORM 366A (6-89)	U.S.	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92
	LICENSEE EVENT REPORT ( TEXT CONTINUATION	(LER)	ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 2055, AND TO THE PAPERWORK REDUCTION PROJECT (31500104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
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Palo Verde	Unit 3	0  5   0   0   0   5   3   0	819 - 01 11 1 - 010 014 0F 016
TEXT (If more space is required, u	se additional NRC Form 366A'sJ (17)		
C.	operations personnel adequate air start p start receiver. Dur emergency diesel gen following conditions occurred: Mode 4 wa approximately 0507 M Specifications 3.0.4 1989, at approximate Technical Specificat 4, the appropriate A for one inoperable en Status of structures at the start of the	(utility, non-lice ressure was availab ing the time period erator was administ prohibited by the s entered on Novemb ST contrary to the and 4.0.4; Mode 3 ly 1453 MST contrar ion 3.0.4 and 4.0.4 CTION requirements mergency diesel gen , systems, or compo event that contribu 3 Train "B" emergen system components I.B, no other stru erable at the start	ratively inoperable, the Technical Specifications er 28, 1989, at requirements of Technical was entered on November 29, y to the requirements of ; and while in Modes 3 and of Specification 3.8.1.1 erator were not met. nents that were inoperable ted to the event: cy diesel generator and its being inoperable as ctures, systems, or
D.	Cause of each compone Not applicable - no e	·	re, if known: failures were involved.
E.	Failure mode, mechan: known:	ism, and effect of	each failed component, if
	Not applicable - no o	component failures	were involved.
F.	For failures of compo systems or secondary		
	Not applicable - no c	component failures v	were involved.
G.	For failures that rer estimated time elapse trains were returned	ed from the discover	safety system inoperable, ry of the failure until the
	Not applicable - no f	ailures were involv	ved.
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NRC FORM 366A	U.S. NUCLEAR	REGULATORY COMMISSION	ADDROVED OND NO 215	0.0104	
(6-89)		APPROVED OMB NO, 3150-0104 EXPIRES: 4/30/92			
L L	ICENSEE EVENT REPORT (LER) TEXT CONTINUATION		ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST: COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	50.0 HRS, FORWARD ATE TO THE RECORDS (P-530), U.S. NUCLEAR DN, DC 20555, AND TO T (3150-0104), OFFICE	
FACILITY NAME (1)	DOCKE	NUMBER (2)	LER NUMBER (6)	PAGE (3)	
-	· ·		YEAR SEQUENTIAL REVISION		
Palo Verde I	Unit 3 , 0 15	10 10 10 1 51 31 0	819 - 01 11 1 - 010	015 0F 016	
TEXT (If more space is required, use ac				015101010	
н.	Method of discovery of o procedural error:	each component	or system failure or		
	Not applicable - there we procedural errors.	were no compone	nt or system failures	or	
I.	Cause of Event:				
	An independent investige accordance with the APS upon the results of this has been determined to be cause classification - pe mergency diesel generate accordance with surveill Generator B Test 4.8.1.1 is primarily intended to performance of monthly T surveillance testing. A provide for quarterly te valves since they are te generator operability ru a user of the procedure of the procedure results surveillance testing.	Incident Inves investigation of inadequate p procedural prob- tor air start c lance test proc 1.2.a." This s provide admin Train "B" emerg secondary fun esting of vario ested concurren un. However, i that non-perfor	tigation Program. Ba , the cause of this e rocedural guidance (S lems). The Train "B" heck valves are teste edure 43ST-3DG02, "Di urveillance test proc istrative controls fo ency diesel generator ction of the procedur us ASME air start sys t with the emergency t is not readily appa rmance of certain sec	vent ALP d in esel edure r the e is to tem diesel rent to tions	
	The event was not the re following an approved pr task not being covered b unusual characteristics the event.	ocedure or the y an approved p	result of an activit procedure. There were	y or e no	
J.	Safety System Response:				
	Not applicable - there w were necessary.	ere no safety s	system responses and a	none	
К.	Failed Component Informa	tion:			
	Not applicable - no comp	onent failures	were involved.		
II. ASSE	SSMENT OF THE SAFETY CONSE	QUENCES AND IMP	PLICATIONS OF THIS EVE	ENT:	
Ther even	e was no safety consequenc t. The Train 'A' air star	es or implicati t check valve :	ons resulting from th as capable of perform	nis ning	

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NRC FORM 366A (6-89)		U.S. NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315	0.0104		
• • • • • •			EXPIRES: 4/30/92			
•	LICENSEE EVENT REI TEXT CONTINUA	•	ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	500 HRS, FORWARD ATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, AND TO T (3150-0104), OFFICE		
FACILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)		
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Palo V	erde Unit 3	0 5 0 0 0 5 3 0	819 - 01111 - 010	016 05 016		
EXT (If more space is requ	wired, use additional NRC Form 366A's) (17)			0101-1010		
	of service as eviden Surveillance Test on receivers were capab diesel generator when Therefore, there was	during the time the Tran ced by the successful pe December 7, 1989. In a le of supplying the nece n the Train 'B' air comp at least one starting a ing the diesel generator	erformance of the Sect addition, the Train 'A essary starting air to pressor was out of ser air train fully functi	ion XI ′air the vice.		
III.	CORRECTIVE ACTIONS:	ι.		N		
	A. Immediate					
	check valve was	orrective action, the Tr s satisfactorily surveil ximately 0605 MST.	ain "A" air start sys lance tested on Decem	tem Der 7,		
	B. Action to Preve	ent Recurrence:				
	in Units 1, 2, will be revised testing require	action to prevent recurr and 3 to verify operabi d to provide procedural ements. These procedure y March 1, 1990.	lity of the ASME compo guidance on applicabil	onents ity of		
IV.	PREVIOUS SIMILAR EVEN	VTS:				
	10CFR50.73. Previous surveillance tests; h	evious similar events r reports have been subm nowever, none of the pre nce testing resulting f	itted which concern mi vious events have invo	lved		

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