ACCELERATED STRIBUTION DEMONSTRATION SYSTEM

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NOTES:

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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NOTE TO ALL "RIDS" RECIPIENTS:

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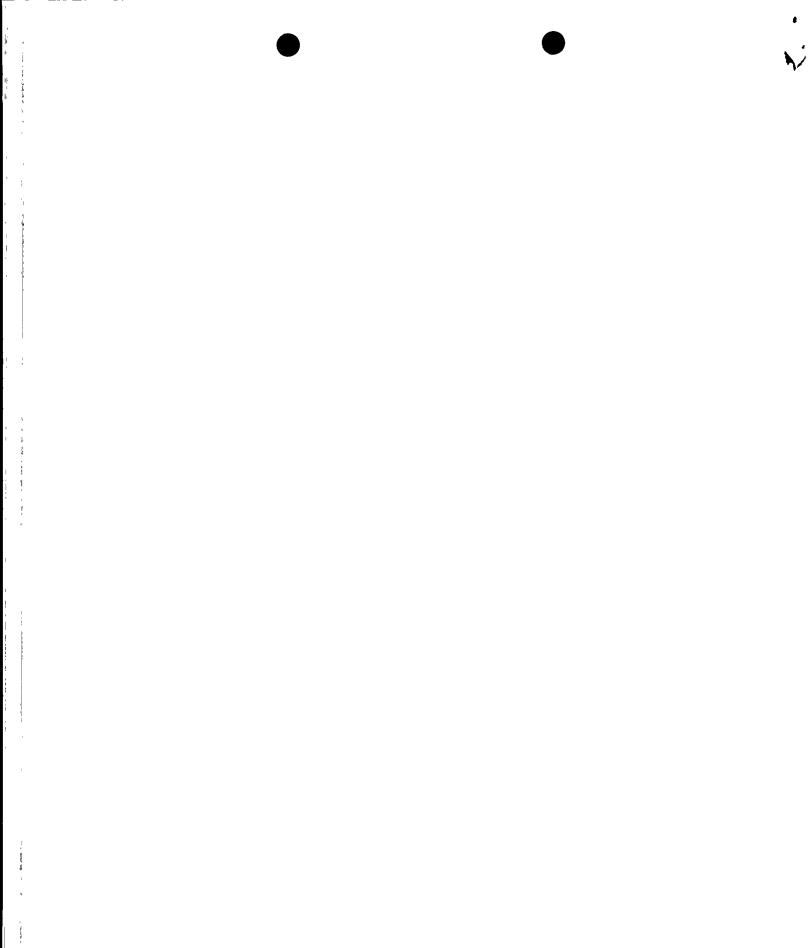
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Arizona Public Service Company PALO VERDE NUCLEAR GENERATING STATION P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

> 192-00629-JML/TRB/KR February 8, 1990

JAMES M. LEVINE VICE PRESIDENT NUCLEAR PRODUCTION

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

Dear Sirs:

Palo Verde Nuclear Generating Station (PVNGS) Subject: Unit 1 Docket No. STN 50-528 (License No. NPF-41) Licensee Event Report 89-021-01 . File: 90-020-404

Attached please find Supplement Number 1 to Licensee Event Report (LER) No. 89-021-00 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, (Acting) Compliance Manager at (602) 393-2521.

Very truly yours

famer M Levine

JML/TRB/KR/kj

ADOC

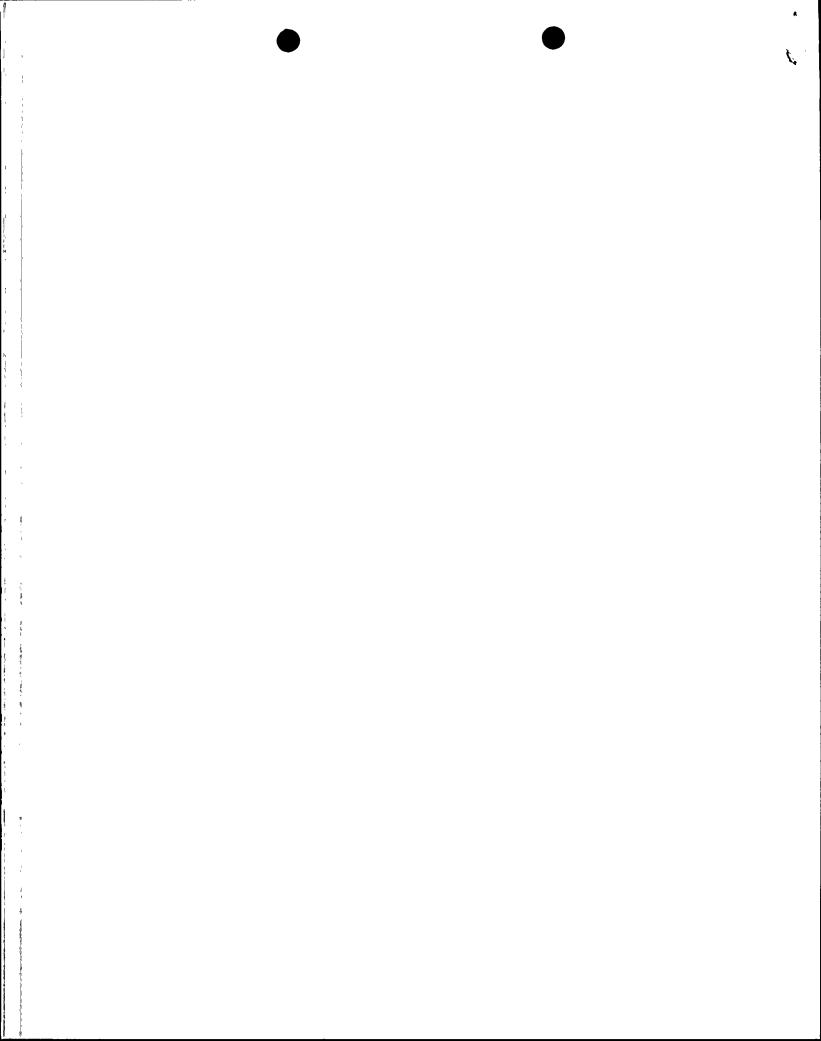
PDR

Attachment

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

- E. E. Van Brunt
- J. B. Martin
- T. L. Chan
- D. H. Coe
- A. C. Gehr
- INPO Records Center

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NRC'FORM 366A* (6-89)	U.S. NUCLEAR REGULATORY COMMISSION	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 (PS30), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
ACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
Palo Verd		TEAR SEQUENTIAL REVISION
	le Unit 1 0 5 0 0 0 5 2 8 8 , use edditionel NRC Form 366A'el (17)	3 9 — 0 2 1 — 0 1 0 2 ^{0F} 0
I. DE	ESCRIPTION OF WHAT OCCURRED:	
Α.	. Initial Conditions:	
·	On November 6, 1989, Palo Verde Unit 3 wa SHUTDOWN) at approximately 370 pounds per 120 degrees Fahrenheit (F). On November 1 was in a refueling outage with the core Spent Fuel Pool (ND).	r square inch (psi) and 9, 1989, Palo Verde Unit
Β.	. Reportable Event Description (Including D Times of Major Occurrences):	Dates and Approximate
	Event Classification: Conditions prohib plant's Technical Specifications (6 the Code of Federal Regulations, Pa Protection Against Radiation, Secti	5.12.2) and Title 10 of and Title 10 of
	On November 6, 1989, at approximately 090 Protection Technician (RPT) (contractor, a Locked High Radiation Area (LHRA) gate gate is located in Unit 3 on the 70' elev Building (NF) at the access point to the (BP) Heat Exchanger (HX) Room. The posti of the gate met the requirements of the s In addition, the interior access way was posting. The gate and its locking mechan tampering. The gate was last verified to approximately 0815 MST on November 6, 198 door check performed each shift.	non-licensed) discovered open and unguarded. The vation of the Auxiliary "A" Shutdown Cooling ing on the exterior side station posting procedure. posted with an LHRA nism showed evidence of o be shut and locked at
	Subsequently, on November 9, 1989, at app Unit 1 RPT (contractor, non-licensed) dis and unguarded during a routine LHRA door located in Unit 1 on the 112' elevation o (NE) at the access point to the High Leve posting on the exterior side of the gate the station posting procedure. While the posting was not visible. The gate was la and locked at approximately 2100 MST on N routine LHRA door check.	scovered an LHRA gate open check. The gate is of the Radwaste Building el Storage Area. The met the requirements of e gate was open, the LHRA ast verified to be shut
	The open and unguarded gates are contrary requirements of Technical Specification 6 Code of Federal Regulations, Part 20, "St	5.12.2 and Title 10 of the

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NRC Form 366A (6-89)

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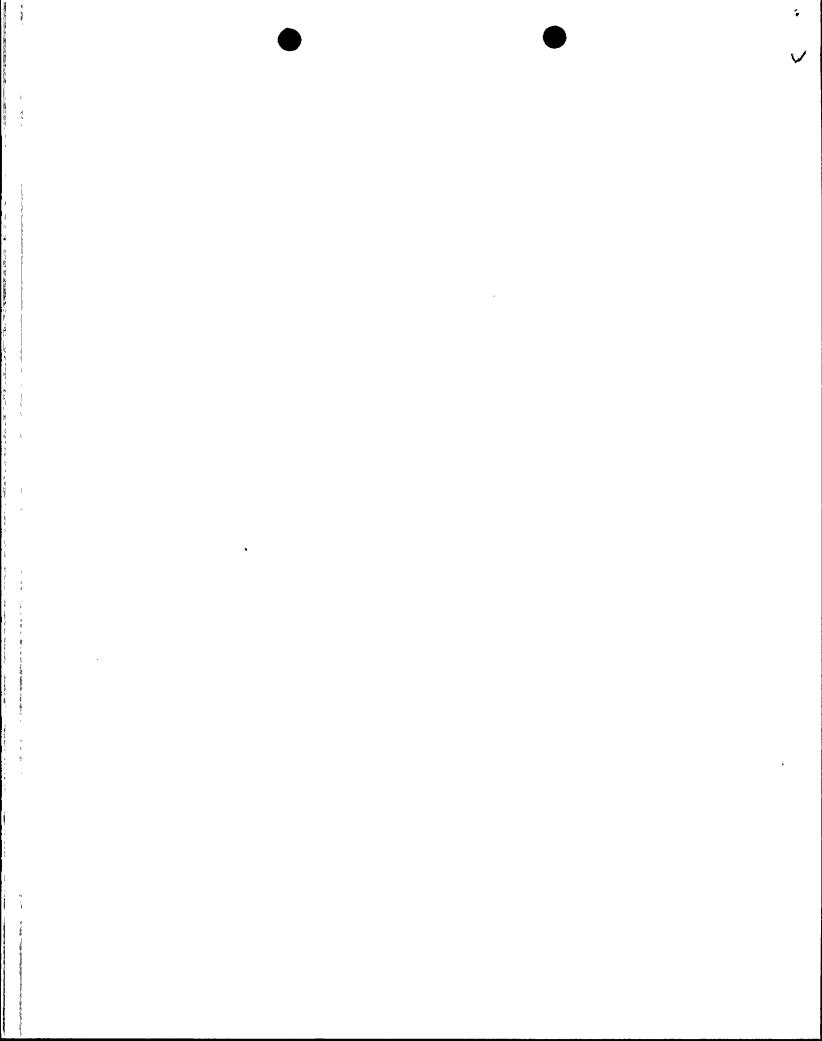
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NRC'FORM 366A* (6-89)		S. NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315	0.0104
10031	LICENSEE EVENT REPORT TEXT CONTINUATION		EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTIM AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC OF MANAGEMENT AND BUDGET, WASHI	O COMPLY WTH THIS 500 HRS, FORWARD ATE TO THE RECORDS (P-530), U.S. NUCLEAR ON, DC 20555, AND TO
FACILITY NAME (1)	•	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
			YEAR SEQUENTIAL REVISION NUMBER NUMBER	
Palo Verd	le Unit 1 use additional NRC Form 3684's) (17)	0 5 0 0 0 5 2 8	8 9 -0 2 1 -0 1	013 05 01
		' Section 20.203(c)(2).	
	area in which the i less than 1000 mill conspicuously poste shall be controlled (REP). Any individ	ntensity of radiatio irem/hour (mrem/hr) ed as a high radiatio by issuance of a Ra	that each high radia n is greater than 100 shall be barricaded a n area and entrance t diation Exposure Perm ed to enter such area y one or more of the	but nd hereto it
		nonitoring device (RI e radiation dose in t) which continuously he area.	•
	the radiation preset integr with this mon level in the	n dose rates in the a cated dose is receive nitoring device may b	ch continuously integ rea and alarms when a d. Entry into such a e made after the dose ished and personnel h	reas rate
	in radiation rate monitori positive cont shall perform frequency spe	protection procedure ing device who is res crol over the activit a periodic radiation	ty Radiation Protecti	ose g nd
	that areas with rad accessible to a maj with locked doors t	liation levels greate or portion of the wh to prevent unauthoriz	cification 6.12.2 req r than 1000 mrem/hr ole body shall be pro ed entry. The doors a access by personnel u	vided re to
•	access requirements	, indicates that no a	inistrative control o uthorized entries wer interval between LHR	e made
		as systems or compo	nents that were inope	rable
c.	at the start of the	e event that contribu	ted to the event:	

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NRC Form 366A (6-89)



NRC FORM 366A" (6-89)		U.S,	NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 315	0.0104
				EXPIRES: 4/30/92	
· ·	Ĺ	LICENSEE EVENT REPORT (TEXT CONTINUATION	LEK)	ESTIMATED BURDEN PER RESPONSE T INFORMATION COLLECTION REQUEST COMMENTS REGARDING BURDEN ESTIM	ATE TO THE RECORDS
		TEXT CONTINUATION		AND REPORTS MANAGEMENT BRANCH REGULATORY COMMISSION, WASHINGT THE PAPERWORK REDUCTION PROJEC	(P-530), U.S. NUCLEAR ON, DC 20555, AND TO T (3150-0104) OFFICE
		•	Y	OF MANAGEMENT AND BUDGET, WASHI	NGTON, DC 20503.
FACILITY NAME (1)			DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
				YEAR SEQUENTIAL REVISION NUMBER	
Palo Ve	erde U	Init 1	0 5 0 0 0 5 2 8	8 9 - 0 2 1 - 0 1	014 0F 018
TEXT III more space is req	uired, use ea	Iditional NRC Form 366A'sJ (17)	*!		
		inoperable at the st event.	art of the event wh	ich contributed to th	is
	D.	Cause of each compon	ent or system failu	re, if known:	
			• •	failures were involv	
	E.	Failure mode, mechan known:	ism, and effect of	each failed component	, if
		Not applicable - no	component.failures	were involved.	
	F.	For failures of comp systems or secondary			•
		Not applicable - no	component failures	were involved.	
	G.		ed from the discove	a safety system inope ry of the failure unt	
		Not applicable - no a of a safety system in		ved which rendered a	train
	н.	Method of discovery of procedural error:	of each component o	r system failure or	
		Not applicable - the or procedural errors		ponent or system fail	ures
	I.	Cause of event		· .	
		the LHRA gates, inter were in Unit 1 and 3 during the periods for	rviews were conduct 's Radiologically C or which the gates	e individuals who ope ed with the personnel ontrolled Areas (RCA) may have been open an the LHRA gates have n	who d
	4	gates were intention Cause Code X). The ineffective in preven	ally forced open by locking mechanisms nting unauthorized, easily defeated wi	n LHRA gates was that unknown individuals installed on the gate intentional opening th common hand tools) howed evidence of	(SALP s were (i.e.,
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NRC FORM 366A* (6-89)	U.S. 1	UCLEAR REGULATORY COMMISSION	APPROVED OMB NO. 3150 0104
	LICENSEE EVENT REPORT (TEXT CONTINUATION	LER)	EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH THI INFORMATION COLLECTION REQUEST: 500 HRS. FORWARI COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORD AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAI REGULATORY COMMISSION, WASHINGTON, DC 2055, AND T THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFIC OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
FACILITY NAME (1)	,	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
Palo Verd	e Unit 1	0 5 0 0 0 5 2 8	
	, use additional NRC Form 368A's) (17)		
. K II. A TI I a e R	control of LHRA access Radiation Exposure Pa authorized entries we time interval between have been opened with the gates without aut individuals who opened control requirements. The ineffectiveness of prevent unauthorized previous similar even recommendations inclu- to install special lo are expected to requi- for installation of s not been implemented implementation of the probability of an una- gates. An investiga- modification was per- In addition, an evalu- administrative contro- and work practices the administrative contro- sofety System Respons Not applicable - the were necessary. . Failed Component Info- Not applicable - no- SSESSMENT OF THE SAFETY Co- here exists no direct evi- nformation currently avai- ccess into either or both	ss requirements (e. ermit Sign-In Sheet ere made into the a n LHRA door checks. n common hand tools thorization and wit ed the gates violat of the locksets ins entry was identifi int (see Section IV) uded the implementa ocking mechanisms o ire locking as LHRA special locking mec- at the time of this e site modification authorized, intenti- tion of the untimel formed. uation was performe ols including proce- hat control access ols were found to b se: re were no safety ormation: component failures ONSEQUENCES AND IMP dence that an entry lable does not indi- LHRAs occurred and ed for personnel in	ffected areas during the The Unit 1 gate could . The individuals opened hout a key. The ed LHRA administrative talled on the LHRA gates to ed and evaluated during a . The corrective action tion of a site modification n LHRA doors and gates that s. The site modification hanisms was issued but had s event. The may have reduced the onal opening of the LHRA y completion of the site d of the existing LHRA dures, posting, training, to the LHRAs. The e adequate. system responses and none were involved. LICATIONS OF THIS EVENT: into an LHRA was made. cate that unauthorized no unexpected radiation both Unit 1 and Unit 3's

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NRC Form 366A (6-89)

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LICENSEE EVENT (6-89) TEXT CONTIN	APPROVED OMB NO. 3150 0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH TH INFORMATION COLLECTION REQUEST: 500 HRS. FORWAR COMMENTS REGARDING BURDEN ESTIMATE TO THE RECOR AND REPORTS MANAGEMENT BRANCH (P-50), U.S. NUCLEA AREGULATORY COMMISSION, WASHINGTON, DC 20555, AND T THE PAPERWORK REDUCTION PROJECT (3150 01041). OFFIC OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.	
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
		YEAR SEQUENTIAL REVISION NUMBER NUMBER
Palo Verde Unit 1	0 5 0 0 0 5 2 8	8 8 19 - 0 2 1 - 0 1 0 6 0 0
TEXT (If more spece is required, use additional NRC Form 366A's) (17)	····	tions woulding from this

There were no safety consequences or implications resulting from this event as this event had no impact on the safe operation of the plant or the health and safety of the public.

III. CORRECTIVE ACTION:

A. Immediate:

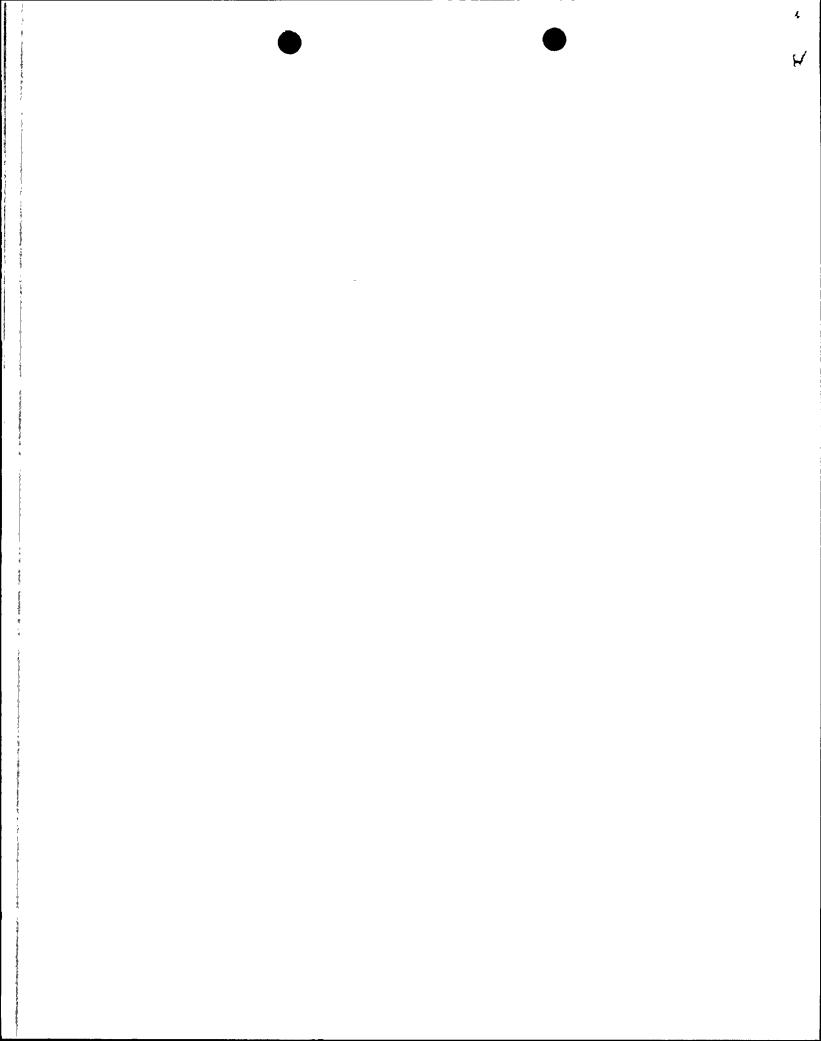
As immediate corrective action, Radiation Protection personnel verified the rooms to be unoccupied and secured the gates. The dosimetry records were checked for all personnel who had access to Unit 1 and/or Unit 3's RCA during the periods for which the gates may have been open and unguarded. No unexpected radiation exposures had been recorded.

In addition, separate chains and padlocks have been utilized on the LHRA cage-type gates and anti-pick plates have been installed on the hollow metal LHRA doors to provide interim increased protection against unauthorized access to the LHRAs in Units 1, 2, and 3. Additional Radiation Protection administrative controls have been established in such a way that no individual will be prevented from leaving an LHRA where a chain and padlock has been utilized.

The priority of the site modification to install special locking mechanisms on LHRA doors and gates that are expected to require locking as LHRAs has been escalated for expeditious implementation. The new locksets have been ordered. Installation specifications for LHRA doors and gates are being developed.

The APS Vice President, Nuclear Production (utility, non-licensed) has issued a memo to all personnel stating that any intentional, unauthorized opening of a door, gate, or any other device used to control access to an LHRA or any unauthorized access into an LHRA will result in the termination of employment for the responsible individual.

As directed by the APS Vice President, Nuclear Production, an Incident Investigation Team was formed to conduct a Category 2 Incident Investigation to determine the root cause and corrective actions necessary to prevent recurrence.



39)		NUCLEAR REGULATORY COMMISSION	APPROVED OMB NO, 3150-0104 EXPIRES: 4/20/02
	LICENSEE EVENT REPORT (TEXT CONTINUATION	(LER)	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 (P530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE FAPERWORK REDUCTION PROJECT (315001041), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.
CILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)
			YEAR SEQUENTIAL REVISION NUMBER
Palo Verde	Unit 1	0 5 0 0 0 5 2 8	819 - 012 1 - 0 1 017 0F 018
t (If more space is required, use .	additional NRC Form 366A's) (17)	·	
В.	Action to Prevent Red	currence:	
			rms and/or self-closure be completed by February ,
	inclusion of an addit	tional requirement that the LHRA postin	res have been evaluated for to post the interior access ng is still visible when
			s similar events at PVNGS, identified as follows:
	to specify that will be notifie	t the PVNGS Site Rac ed of recently estal	rocedures have been revised diation Protection Manager blished LHRAs, in order A actions to reduce LHRAs.
,	to include enha	ancements (e.g., du pon exit) to reduce	rocedures have been revised al verification of LHRA the probability of
	site modification to doors and gates that	install special loc are expected to rec	untimely completion of a cking mechanisms on LHRA quire locking as LHRAs, identified as follows:
	untimely comple action(s) taker quality of the	n as necessary to in	odification and appropriate mprove the timeliness and n process at PVNGS. The
			ginal site modification of the LHRA locking
			d on all doors and gates As thirty days following

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NRC FORM 366A (6-89)	1366A U.S. NUCLEAR REGULATORY COMMISSION								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 BUDGET, WASHINGTON, DC 20503,																		
FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)																	
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TEXT (If more space is required, use additional NRC Form 3	66A'9/ (17)																		

IV. PREVIOUS SIMILAR EVENTS:

A previous similar event was reported in Unit 3 LER 88-005. As reported previously, a maintenance technician entered an LHRA using a screwdriver to unlock the door and gain access into the area. The root cause was a cognitive personnel error on the part of the maintenance technician. The technician received appropriate disciplinary action and additional training. Plant personnel were informed of the event and other actions were taken to improve the Radiation Protection program. Additionally, locking mechanisms on the LHRA doors and gates were evaluated. A special locking mechanism was to be installed on LHRA doors and gates that were expected to require locking as LHRAs. It was determined that these special locking mechanisms would provide adequate protection against defeat by unauthorized personnel. These corrective action recommendations were intended to reduce the probability of personnel error and unauthorized, intentional opening events.

