

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8802050159 DDC DATE: 88/02/03 NOTARIZED: NO DOCKET #
 FACIL: STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Public 05000528
 AUTH. NAME AUTHOR AFFILIATION
 SHRIVER, T. D. Arizona Nuclear Power Project (formerly Arizona Public Serv
 HAYNES, J. G. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-001-00: on 880104, special rept not submitted as
 required by Tech Spec 3.3.3.3. Special rept required to rept
 seismic monitoring sys inoperable longer than 30 days.
 Caused by personnel error. Cause under review. W/880203 ltr.

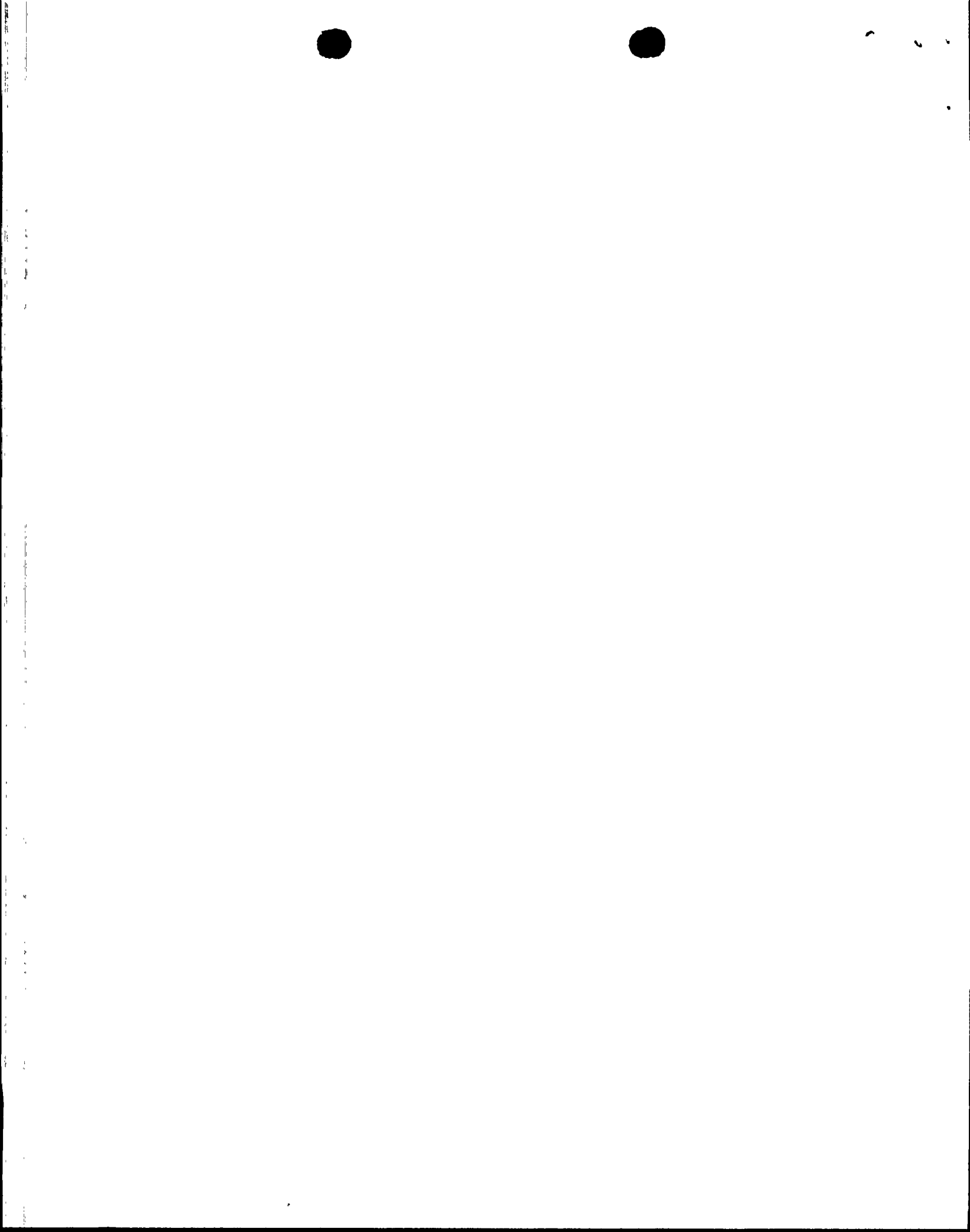
DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: Standardized plant.

05000528

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD5 LA	1 1	PD5 PD	1 1
	LICITRA, E	1 1	DAVIS, M	1 1
INTERNAL:	ACRS MICHELSON	1 1	ACRS MOELLER	2 2
	AEOD/DOA	1 1	AEOD/DSP/NAS	1 1
	AEOD/DSP/ROAB	2 2	AEOD/DSP/TPAB	1 1
	ARM/DCTS/DAB	1 1	DEDRO	1 1
	NRR/DEST/ADS	1 0	NRR/DEST/CEB	1 1
	NRR/DEST/ELB	1 1	NRR/DEST/ICSB	1 1
	NRR/DEST/MEB	1 1	NRR/DEST/MTB	1 1
	NRR/DEST/PSB	1 1	NRR/DEST/RSB	1 1
	NRR/DEST/SGB	1 1	NRR/DLPQ/HFB	1 1
	NRR/DLPQ/GAB	1 1	NRR/DOEA/EAB	1 1
	NRR/DREP/RAB	1 1	NRR/DREP/RPB	2 2
	NRR/DRIS/SIB	1 1	NRR/PMAS/ILRB	1 1
	<u>REG FILE</u> 02	1 1	RES TELFORD, J	1 1
	RES/DE/EIB	1 1	RES/DRPS DIR	1 1
	RGN5 FILE 01	1 1		
EXTERNAL:	EG&G GROH, M	5 5	FORD BLDG HOY, A	1 1
	H ST LOBBY WARD	1 1	LPDR	1 1
	NRC PDR	1 1	NSIC HARRIS, J	1 1
	NSIC MAYS, G	1 1		

NOTES: 1 1



LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 05000528	PAGE (3) 1 OF 04
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TITLE (4)
Personnel Error Results In Late Special Report Submittal

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
01	04	88	88	001	00	02	03	88	N/A		05000
									N/A		05000

OPERATING MODE (9) 5

POWER LEVEL (10) 0.0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

20.402(b)	20.406(c)	80.73(a)(2)(iv)	73.71(b)
20.406(a)(1)(i)	80.38(c)(1)	80.73(a)(2)(v)	73.71(c)
20.405(a)(1)(ii)	80.38(c)(2)	80.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract Below and in Text, NRC Form 366A) Special Report 1-SR-87-026
20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 80.73(a)(2)(i)	80.73(a)(2)(viii)(A)	
20.406(a)(1)(iv)	80.73(a)(2)(ii)	80.73(a)(2)(viii)(B)	
20.406(a)(1)(v)	80.73(a)(2)(iii)	80.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
Timothy D. Shriver, Compliance Manager	602 393-2521

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS
B	IN	VIS	XI999	N					

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single space typewritten lines) (16)

This LER includes information for Special Report 1-SR-87-026 prepared pursuant to Technical Specification 3.3.3.3 ACTION "a" and 6.9.2.

At approximately 0830 MST on January 4, 1988 Palo Verde Unit 1 was in Mode 5 (COLD SHUTDOWN) when it was determined that a Special Report required pursuant to Technical Specification 3.3.3.3 had not been submitted within the time frame prescribed. The Special Report was required to report the Seismic Monitoring System (IN) being inoperable for greater than 30 days. The monitor's malfunctioning Seismic Switch (VIS) was identified as being inoperable during surveillance testing.

There were no other component or system malfunctions that contributed to the event. There were no safety responses and none were necessary.

The root cause of the event has been determined to be a cognitive personnel error in that a reportability evaluation document was not prepared when the Seismic Monitoring System was declared inoperable for required surveillance testing.

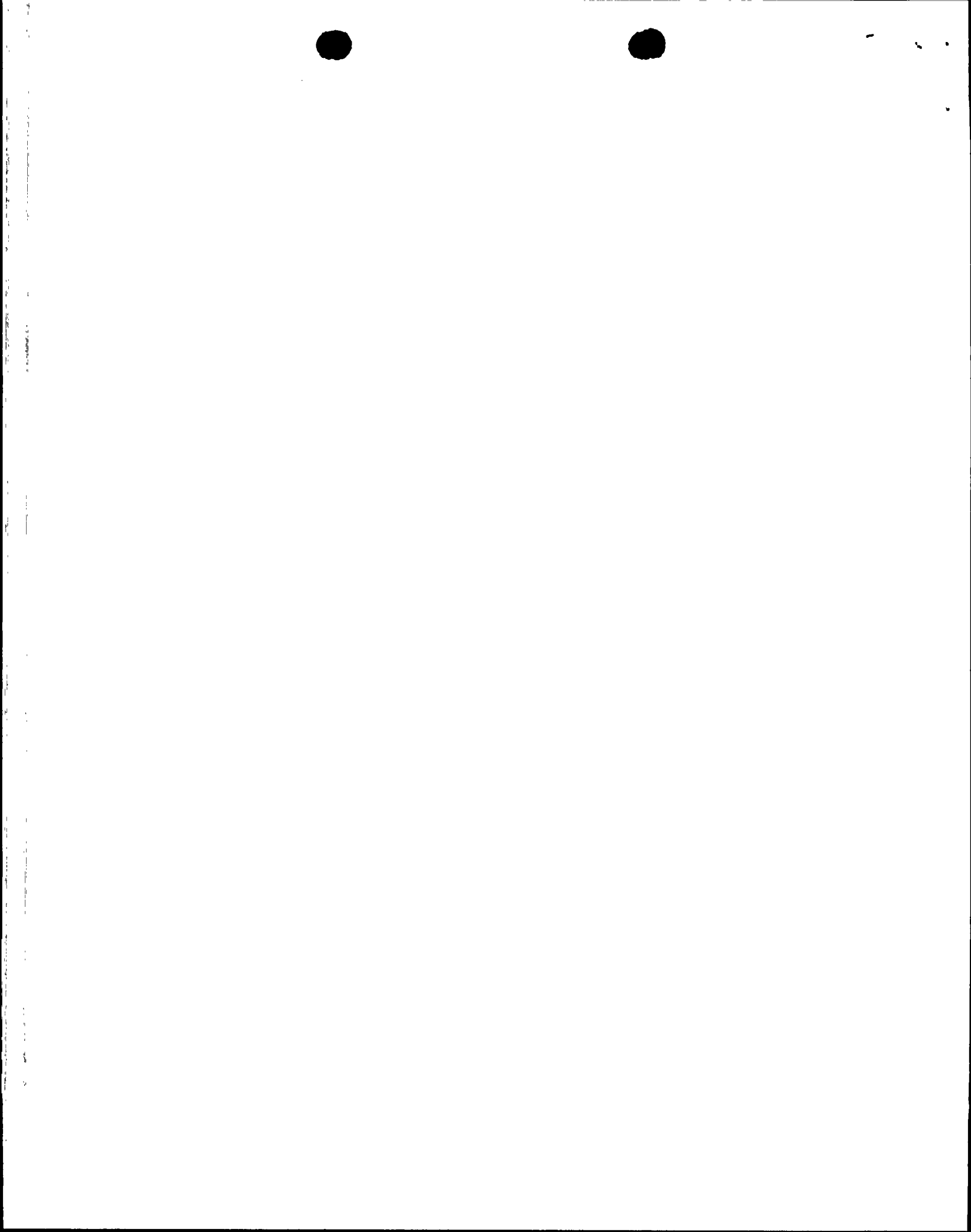
As corrective action to prevent recurrence, this event will be reviewed by appropriate personnel.

There have been no previous similar events reported.

IF 22

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 PDR ADOCK 0500052B
 S PDR



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 5 2 8	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		8 8	- 0 0 1	- 0 0	0 2	OF	0 4

TEXT (If more space is required, use additional NRC Form 366A's) (17)

This LER includes information for Special Report 1-SR-87-026 prepared pursuant to Technical Specification 3.3.3.3 ACTION "a" and 6.9.2.

On January 4, 1988 at approximately 0830 MST Palo Verde Unit 1 was in Mode 5 (COLD SHUTDOWN) at approximately 145°F and 354 psia when it was determined that a Special Report had not been submitted as required by Technical Specification 3.3.3.3.

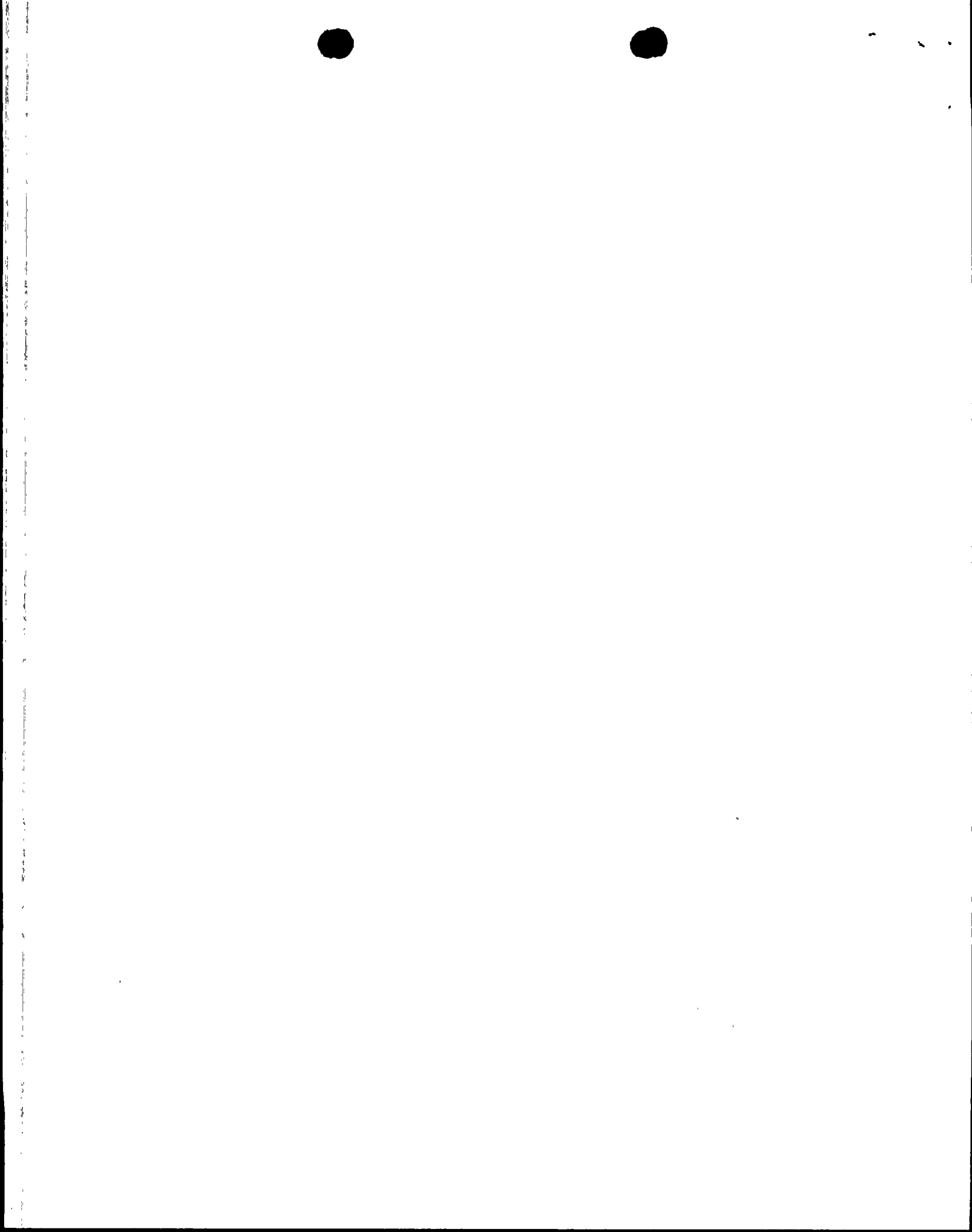
Technical Specification 3.3.3.3. ACTION "a" requires that, "With one or more seismic monitoring instruments inoperable for more than 30 days, prepare and submit a Special Report to the Commission...within the next 10 days..." During a review of inoperable equipment documentation by Compliance Department personnel (utility, non-licensed) on January 4, 1988, it was discovered that the Seismic Monitoring System (IN) had been declared inoperable on November 16, 1987 in order to perform 18 month surveillance testing. The Seismic Monitoring System had not been declared operable by December 16, 1987; therefore, a Special Report was required to be submitted by December 26, 1987.

An investigation identified that the Seismic Monitoring System had been inoperable for greater than thirty (30) days due to an inoperable Seismic Switch (VIS). The inoperable switch was identified during the conduct of the 18 month surveillance testing. The original equipment switch has been discontinued and is no longer available. As a result, a design change has been initiated to verify the acceptability and authorize the installation of a replacement model. The Seismic Monitoring System is expected to be returned to service by February 29, 1988.

The Seismic Switch is an omniswitch configuration. This instrument is sensitive to vibrations in three orthogonal directions, is a dual set point type (plus or minus) with independently adjustable set points for each of three axes, and dual output. The switch transmits a relay (30) output for operating basis earthquake (OBE) and safe shutdown earthquake (SSE). In case set points are exceeded, the switch activates the visual and audible annunciators (ANN) on the seismic instrumentation panel (PL). The panel has separate annunciation indicators for OBE and SSE.

It has been determined that a root cause of failure for the malfunctioning Seismic Switch would not be required since the switch is no longer manufactured and is no longer in use at PVNGS.

The seismic switch is considered to have become inoperable with the commencement of the 18 month surveillance testing on November 16, 1987. While the switch was inoperable on November 24, 1987, a seismic event occurred wherein floor motion was experienced in the control rooms for all three units. As discussed above, the Seismic Monitoring System was considered to be inoperable during the event; however, the monitoring portion of the system was functioning. The seismic switch does not affect the functional ability of the



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 5 2 8	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 8	— 0 0 1	— 0 0	0 3	OF 0 4

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Seismic Monitoring System as various other instrumentation is available to detect and analyze seismic events. No seismic alarms were received in the Unit 1 control room and subsequent evaluation determined that the event was below alarm setpoints. Based upon the above, it has been determined that the switch being out-of-service had no safety consequences.

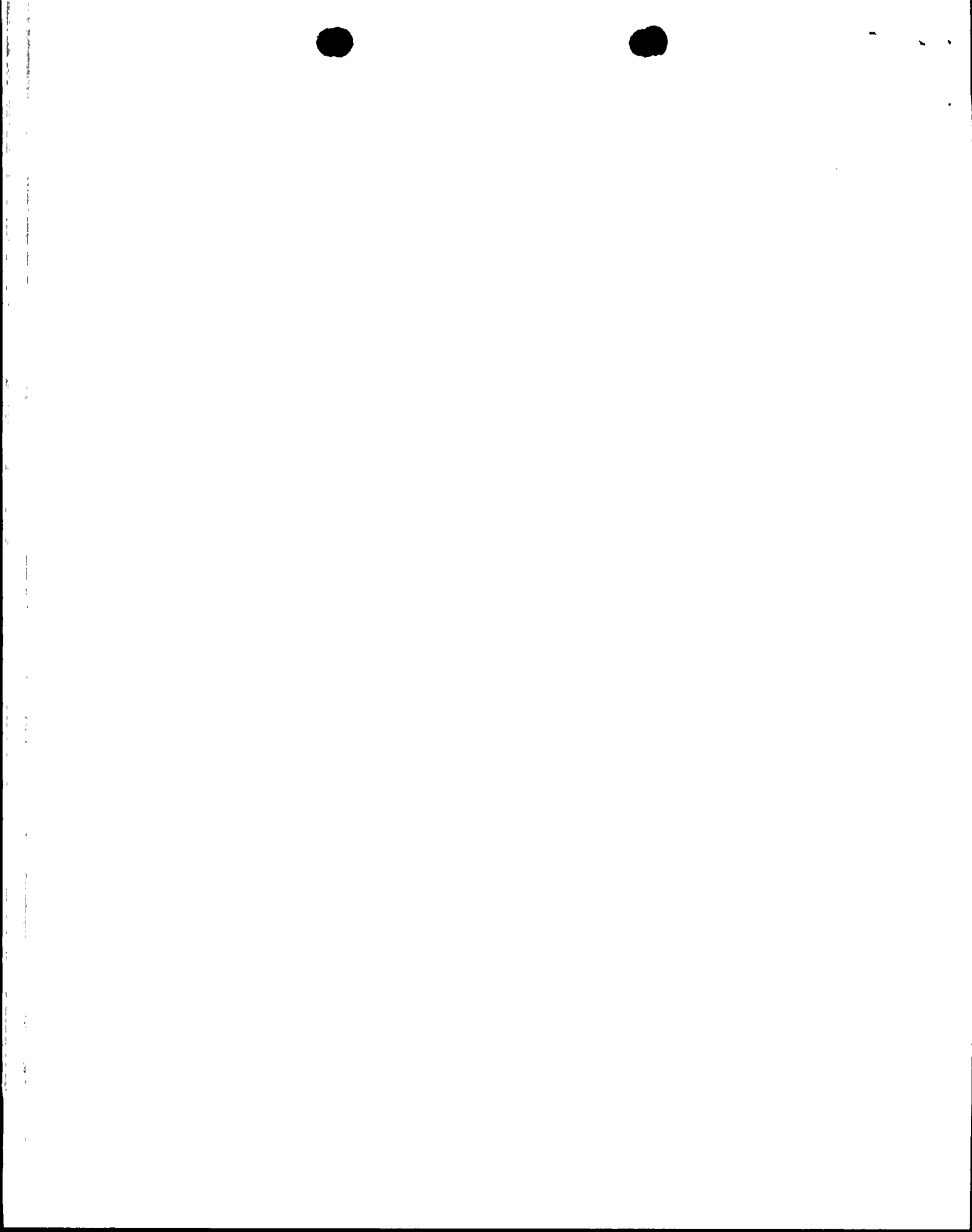
This report is being submitted in excess of the 10 days required by T.S. 3.3.3.3 due to a cognitive personnel error contrary to approved procedural guidance in that the Seismic Monitoring System was declared inoperable for the 18 month surveillance testing and was not reported as required to ensure that a Special Report would have been prepared and issued.

On November 15, 1987 at approximately 0725, a seismic alarm was received in the Unit 1 control room. The alarm was evaluated by the Shift Technical Advisor (STA) (utility, licensed) and determined to be erroneous. However during the analysis, it was discovered that the Playback/Calibration Unit (PLAY) was not operating properly. It was determined that the Seismic Monitoring System was inoperable and a reportability evaluation document was initiated. The reportability investigation determined that the Playback/Calibration Unit is not required to be operational to meet Technical Specification OPERABILITY requirements. Therefore, the reportability evaluation document was determined to be "not reportable" and no Special Report prepared.

On November 16, 1987 at approximately 1500 MST, the Seismic Monitoring System was declared inoperable for the performance of the 18 month surveillance test. At this time, another reportability evaluation document should have been initiated but was not. Subsequent investigation determined that the personnel (utility, licensed) responsible for initiating the reportability evaluation document were aware of the evaluation document initiated from the day before and determined that another evaluation document was not necessary. Therefore inoperability for the Seismic Monitoring System surveillance testing was not considered in the reportability evaluation.

As corrective action to prevent recurrence this event will be reviewed by the appropriate personnel to ensure they are aware of the requirements for potential event reporting.

Procedural controls were evaluated and determined to be adequate. Therefore, the personnel error was not a result of an error in an approved procedure or a result of the activity not being covered by an approved procedure.



LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1) Palo Verde Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 5 2 8 8 8 - 0 0 1 - 0 0	LER NUMBER (6)			PAGE (3)	
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		8 8	0 0 1	0 0	0 4	OF 0 4

TEXT (If more space is required, use additional NRC Form 366A's) (17)

Other than described above, there were no structures, systems, or components that contributed to the event because they were inoperable at the time of the event. Other than described above, there were no malfunctioning components which contributed to the event. There were no unusual characteristics of the work location which contributed to the event. There were no manually or automatically initiated safety responses that occurred and none were required. Based upon the information contained herein, no safety consequences resulted from this event.

There have been no previous similar events reported. However, based upon clarifications received from the Office for Analysis and Evaluation of Operational Data (AEOD), a review will be conducted of previous evaluations to ensure the appropriate reporting requirements have been met.

MALFUNCTIONING SEISMIC SWITCH INFORMATION:

Manufacturer: Terra Technologies
Model No.: AJSMN-XSH-10/XSHH-10
Part No.: SP-215C



Arizona Nuclear Power Project

P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

192-00333-JGH/TDS/DAJ
February 3, 1988

NRC Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528 (License No. NPF-41)
Licensee Event Report 88-001-00
Special Report No. 1-SR-87-026
File: 88-020-404

Attached please find Licensee Event Report (LER) No. 88-001-00 prepared and submitted pursuant to 10CFR 50.73. In accordance with 10CFR 50.73(d), we are herewith forwarding a copy of the LER to the Regional Administrator of the Region V office. Additionally, this LER includes Special Report 1-SR-87-026 prepared and submitted pursuant to Technical Specification 3.3.3.3 ACTION "a" and 6.9.2.

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

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/TDS/DAJ/kj

Attachment

cc: O. M. DeMichele (all w/a)
E. E. Van Brunt, Jr.
J. B. Martin
J. R. Ball
R. C. Sorenson
E. A. Licitra
A. C. Gehr
INPO Records Center

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