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FACIL: 50-362 San Onofre Nuclear Station, Unit 3, Southern Californ 05000362
AUTH. NAME AUTHOR AFFILIATION
MORGAN, H. E. Southern California Edison Co.
RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-014-00: on 870725, safty injection tank (SIT) T009 declared inoperable & Limiting Condition for Operation 3.5.1 entered. Cause under investigation. Supplementary channel check acceptance criteria implemented. W/870824 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: ELD Chandler 1cy. 05000362

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	PD5 LA	1	1	PD5 PD	1	1
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	AEOD/DSP/ROAB	2	2	AEOD/DSP/TPAB	1	1
	DEDRO	1	1	NRR/DEST/ADS	1	0
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	NRR/DLPQ/HFB	1	1	NRR/DLPQ/QAB	1	1
	NRR/DOEA/EAB	1	1	NRR/DREP/RAB	1	1
	NRR/DREP/RPB	2	2	NRR/PMAS/ILRB	1	1
	REG FILE 02	1	1	RES DEPY GI	1	1
	RES TELFORD, J	1	1	RES/DE/EIB	1	1
	RGN5 FILE 01	1	1			
EXTERNAL:	EG&G GROH, M	5	5	H ST LOBBY WARD	1	1
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NRC Form 366
(9/83)

U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES: 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1)	DOCKET NUMBER (2)	PAGE (3)
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3	0 5 0 0 0 3 6 2	1 OF 0 2

TITLE (4)
SAFETY INJECTION TANK LEVEL INSTRUMENTATION

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQ. NUMBER	REV. NUMBER	MONTH	DAY	YEAR	FACILITY NAMES	DOCKET NUMBER(S)
0 7	2 5	8 7	8 7	— 0 1 4	— 0 0	0 8	2 4	8 7		0 5 0 0 0
										0 5 0 0 0

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)			
POWER LEVEL (10)	1 0 0	20.402(b)	20.405(c)	50.73(a)(2)(iv)	73.71(b)
		20.405(a)(1)(i)	50.36(c)(1)	50.73(a)(2)(v)	73.71(c)
		20.405(a)(1)(ii)	X 50.36(c)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
		20.405(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
		20.405(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
		20.405(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(x)	

LICENSEE CONTACT FOR THIS LER (12)

NAME	TELEPHONE NUMBER
	AREA CODE
H. E. MORGAN, STATION MANAGER	7 1 4 — 3 6 8 - 6 2 4 1

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	

SUPPLEMENTAL REPORT EXPECTED (14)		EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
X YES (If yes, complete EXPECTED SUBMISSION DATE)	NO		0 9	3 0	8 7

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

At 1405 on 7/25/87, with Unit 3 at 100% power, both narrow range channels of Safety Injection Tank (SIT) T-009 level indication were returned to service following completion of repair and calibration checks to determine the cause of inconsistencies between the level indicated by each of the narrow and the wide range channels.

Prior to their removal from service, the narrow range channels indicated levels equivalent to 2.0% and 0.46% above the minimum volume required by Technical Specification (TS) Limiting Condition for Operation (LCO) 3.5.1; upon return to service, the instruments indicated levels equivalent to 0.6 and 1.0% below the minimum volume required. The wide range level indication channel, however, continued to indicate levels equivalent to 1.6% above the TS minimum volume.

Based on these indications, SIT-T009 was declared inoperable and Action Statement (a) of LCO 3.5.1 was entered, the contained volume was restored to the required limits by all three level indications and the tank was declared OPERABLE at 1501 on 7/25/87. Based on the narrow range level readings following calibration, the minimum volume requirements of the LCO may not have been met for longer than the 1 hour permitted by the action statement, and is therefore being reported pursuant to 10 CFR 50.73(a)(2)(i)(b).

Our investigation into the cause of this instrument inaccuracy is continuing and will be reported, along with corrective action taken, in a supplement to this LER by September 30, 1987. In the interim, all SIT level instrument output for both units is being recorded each shift. Supplementary channel check acceptance criteria for monitoring tank levels and evaluating performance of SIT level instrumentation has been implemented.

The health and safety of plant personnel and the public were not affected by this event.

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At 1405 on 7/25/87, with Unit 3 at 100% power, both narrow range channels of Safety Injection Tank (SIT) T-009 level indication (3L-0332 and 3L-0333) (EIIS System Code BP) (EIIS Component Code LIT) were returned to service following completion of repair to one narrow range channel and calibration checks to determine the cause of inconsistencies between the level indicated by each of these, as well as between the narrow and wide range (3L-0331) level indicating channels.

Prior to their removal from service, 3L-0332 and 3L-0333 indicated levels equivalent to 2.0% and 0.46% above the minimum volume required by Technical Specification (TS) Limiting Condition for Operation (LCO) 3.5.1; upon return to service, the instruments indicated levels equivalent to 0.6 and 1.0% below the minimum volume required. The wide range level indication channel, however, continued to indicate levels equivalent to 1.6% above the TS minimum volume.

Based on these indications, SIT-T009 was declared inoperable and Action Statement (a) of LCO 3.5.1 was entered. Immediate corrective action was taken to restore contained borated water volume to within the required limits by all available level indications and the tank was declared OPERABLE at 1501 on 7/25/87.

Based upon the narrow range level indication readings following calibration, the minimum volume requirements of the LCO may not have been met for longer than the 1 hour permitted by the action statement. The condition is therefore being reported pursuant to 10 CFR 50.73(a)(2)(i)(b).

Our investigation into the cause of this instrument inaccuracy is continuing and will be reported, along with corrective action taken, in a supplement to this LER by September 30, 1987. In the interim, all SIT level instrument output for both units is being recorded each shift. Supplementary channel check acceptance criteria for monitoring tank levels and evaluating performance of SIT level instrumentation has been implemented.

Each of the three other SITs contained more than the amount by which the affected tank was deficient. Therefore, the combined total contained borated water volume in the SITs remained above that presumed available in the accident analysis, and there was no reduction in the margin of safety to plant personnel or the public as a result of this occurrence.

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

TELEPHONE
(714) 368-6241

August 24, 1987

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

Subject: Docket No. 50-362
30-Day Report
Licensee Event Report No. 87-014
San Onofre Nuclear Generating Station, Unit 3

Pursuant to 10 CFR 50.73(a)(2)(i) and 50.36(c)(2), this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving a Safety Injection Tank on the Low Pressure Safety Injection System. Neither the health and safety of plant personnel nor the health and safety of the public was affected by this occurrence.

If you require any additional information, please so advise.

Sincerely,

H E Morgan

Enclosure: LER No. 87-014

cc: F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)

J. B. Martin (Regional Administrator, USNRC Region V)

Institute of Nuclear Power Operations (INPO)

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