

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: B704140048 DDC DATE: 87/04/07 NOTARIZED: NO DOCKET #
 FACIL: 50-361 San Onofre Nuclear Station, Unit 2, Southern California 05000361
 AUTH. NAME AUTHOR AFFILIATION
 MORGAN, H. E. Southern California Edison Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 87-003-00: on B70310, fuel handling isolation sys Train B
 spuriously actuated by fuel handling bldg airborne radiation
 monitor 2RE7823B2. Caused by electromagnetic interference
 induced by resetting monitor. W/B70407 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 2
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: ELD Chandler lcy.

05000361

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	PD5 LA	1	1		PD5 PD	1	1		
	ROOD, H	1	1						
INTERNAL:	ACRS MICHELSON	1	1		ACRS MOELLER	1	1		
	ACRS WYLIE	1	1		AEOD/DOA	1	1		
	AEOD/DSP/ROAB	2	2		AEOD/DSP/TAPB	1	1		
	NRR/ADT	1	1		NRR/DEST/ADE	1	0		
	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/SCB	1	1		NRR/DLPQ/HFB	1	1		
	NRR/DLPQ/QAB	1	1		NRR/DOEA/EAB	1	1		
	NRR/DREP/EPB	1	1		NRR/DREP/RAB	1	1		
	NRR/DREP/RPB	2	2		NRR/PMAS/ILRB	1	1		
	NRR/PMAS/PTSB	1	1		REC FILE 02	1	1		
	RES SPEIS, T	1	1		RGN5 FILE 01	1	1		
EXTERNAL:	EC&G GROH, M	5	5		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

TOTAL NUMBER OF COPIES REQUIRED: LTTR 44 ENCL 42

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 2										DOCKET NUMBER (2) 0 5 0 0 0 3 6 1				PAGE (3) 1 OF 0 1		
TITLE (4) FUEL HANDLING ISOLATION SYSTEM (FHIS) SPURIOUS ACTUATION																
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 3	1 0	8 7	8 7	0 0 3	0 0	0 4	0 7	8 7					0 5 0 0 0 0			
OPERATING MODE (9)		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)														
1		20.402(b)				20.405(c)				<input checked="" type="checkbox"/> 50.73(a)(2)(iv)				73.71(b)		
POWER LEVEL (10)		20.405(a)(1)(i)				50.36(c)(1)				50.73(a)(2)(v)				73.71(c)		
0 9 9		20.405(a)(1)(ii)				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)				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 H. E. MORGAN, STATION MANAGER										TELEPHONE NUMBER AREA CODE 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 NPDPS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDPS						
SUPPLEMENTAL REPORT EXPECTED (14)												EXPECTED SUBMISSION DATE (15)		MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)												<input checked="" type="checkbox"/> NO				
Abstract (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)																
<p>On 3/10/87, at 0847, with Unit 2 at 99% power, the Fuel Handling Isolation System (FHIS) (EIIS System Code VG) Train "B" was spuriously actuated by the Fuel Handling Building Airborne Radiation Monitor 2RE7823B2 (EIIS Component Code MON). No fuel movement was in progress and all FHIS components functioned as designed. At 0856, the Fuel Handling Building airborne activity levels were verified to be below the FHIS actuation setpoint, and FHIS Train "B" was reset.</p> <p>The spurious actuation occurred while radiation monitor test technicians were performing the 31-day surveillance on Containment Purge Isolation System (CPIS) Monitor 2RE7807B2. Actuation circuitry for both FHIS monitor 2RE7823B2 and CPIS monitor 2RE7807B2 are located adjacent to one another in the same instrument cabinet. The FHIS actuation occurred as the CPIS reset button was depressed, upon completion of the 31-day functional test on CPIS monitor 2RE7807B2. Investigation revealed that due to the routing of FHIS and CPIS relay coil wiring within the same wire bundle (tie-wrapped), electromagnetic interference induced by the resetting of CPIS relays caused the FHIS actuation.</p> <p>The CPIS relay wiring has been rerouted so that it is no longer adjacent to the FHIS relay wiring. This corrective action is expected to minimize recurrence of spurious FHIS actuations. The need for implementation of similar corrective action on other monitors is currently under evaluation.</p> <p>Since Fuel Handling Building airborne activity remained at normal levels, there was no safety significance to this event.</p>																

Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

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(714) 368-6241

April 7, 1987

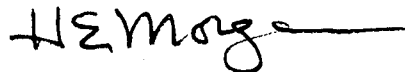
U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Docket No. 50-361
30-Day Report
Licensee Event Report No. 87-003
San Onofre Nuclear Generating Station, Unit 2

Pursuant to 10 CFR 50.73(a)(2)(iv), this submittal provides the required 30-day written Licensee Event Report (LER) for an occurrence involving a spurious actuation of the Fuel Handling Isolation System (FHIS). Neither the health and safety of plant personnel nor the health and safety of the public was affected by this event.

If you require any additional information, please so advise.

Sincerely,



Enclosure: LER No. 87-003

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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