

**LICENSEE EVENT REPORT**[illegible]

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

2	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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2		8 LICENSE CODE 14												15 LICENSE NUMBER 23												26		30 LICENSE TYPE 30					57 CAT 58																																																																		

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REPORT  
DATE

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DOCKET NUMBER EVENT DATE REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On 10/17/83, with Unit 2 in Mode 1, the undervoltage (UV) armatures for Reactor Trip Breakers (RTB's) 4 and 8 were found not to be fully picked-up. On 10/28/83, with Unit 2 in Mode 3, RTB's 5 and 8 were observed to be in the same condition. On 10/31/83, with both Units 2 and 3 in Mode 1, Unit 2 RTB 4 and Unit 3 RTB's 5 and 8 were found in this condition. (See attachment.)

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMPONENT CODE		COMP. SUBCODE		VALVE SUBCODE	
I A 11		E 12		B 13		C K T B R K 14		A 15		Z 16	
0 9											
7 8		9 10		11 12		13 14		15 16		17 18	
17		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.	
LER/RO REPORT NUMBER		8 3		0 9 1		/ 0 1		X		1	
21 22		23 24		25 26		27 28		29 30		31 32	
ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED	
E 18		X 19		Z 20		Z 21		0 0 0 0 22		Y 23	
23 24		25 26		27 28		29 30		31 32		33 34	
NPRD-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER							
N 24		N 25		G 0 8 0 26							
41 42		43 44		45 46		47 48		49 50		51 52	

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)	
1 0	UV armatures not being fully picked-up is the result of interference
1 1	between the UV armature and the copper shading ring around the coil core.
1 2	All affected RTB's were reset. As corrective action, visual verification
1 3	and manual adjustment of proper closed air gap position is required
1 4	following energization of the UV device. Diode elimination is being
	investigated.

FACILITY STATUS (28) 1 5 B POWER (29) 0 0 0 OTHER STATUS (30) NA METHOD OF DISCOVERY (31) B DISCOVERY DESCRIPTION (32) Surveillance Testing

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 6 [Z] (33) [Z] (34) NA NA

PERSONNEL EXPOSURES		TYPE		DESCRIPTION	
NUMBER					
1	7	0	0	0	NA
		37	Z	38	

PERSONNEL INJURIES		DESCRIPTION		(41)
NUMBER				
1	8	0	0	(40)
NA				

8402150218 840131  
PDR ADOCK 05000362  
S

7	8	9	10	11	12		FDR	FEZC 11
LOSS OF OR DAMAGE TO FACILITY						(43)		
TYPE								
x	O	7	(42)	x	NA			
DESCRIPTION								

1	2	3	4	5	6	7	8	9	10
PUBLICITY									
ISSUED DESCRIPTION (45)									
NA									
NRC USE ONLY									

NAME OF PREPARER J. G. HAYNES ✓ PHONE: 714/492-7700

NAME OF PREPARER

J. G. HAYNES

PHONE

714/492-7700

ATTACHMENT TO LER 83-091, REVISION 1  
SOUTHERN CALIFORNIA EDISON COMPANY  
SAN ONOFRE NUCLEAR GENERATING STATION  
UNITS 2 AND 3, DOCKET NOS. 50-361 AND 50-362

SUPPLEMENTAL INFORMATION FOR EVENT DESCRIPTION AND PROBABLE  
CONSEQUENCES

Based on vendor tests, the abnormal armature position has little or no detectable effect on the ability of the UV trip device to trip the breaker on loss of voltage. Public health and safety were unaffected since the shunt trip feature functioned properly. See LER 83-125 (Docket No. 50-361).

*Southern California Edison Company*



SAN ONOFRE NUCLEAR GENERATING STATION

P.O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES  
STATION MANAGER

TELEPHONE  
(714) 492-7700

January 31, 1984

U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement  
Region V  
1450 Maria Lane, Suite 210  
Walnut Creek, California 94596-5368

Attention: Mr. J. B. Martin, Regional Administrator

Dear Sir:

Subject: Docket Nos. 50-361 and 50-362  
Licensee Event Report No. 83-091, Revision 1,  
(Docket No. 50-361)  
San Onofre Nuclear Generating Station, Units 2 and 3

Reference: Letter, J. G. Haynes (SCE) to J. B. Martin (NRC),  
"14-Day Follow-Up Report, Licensee Event Report 83-091  
(Docket No. 50-362)," dated November 18, 1983

The referenced letter provided the 14-Day Follow-Up Report and a copy of the Licensee Event Report (LER) form for an occurrence involving operation of Reactor Trip Breakers (RTB's) on their undervoltage (UV) trip devices. (As in the past, the breakers continue to function acceptably using the shunt trip device.) As stated in that letter, our investigation into UV armatures not fully picking up as a result of interference between the UV armature and the copper shading ring around the core of the coil was continuing with the assistance of SCE and CE organizations and the vendor.

Based on tests conducted by the vendor (General Electric), it has been concluded that the armature in this abnormal position has little or no detectable effect on the ability of the UV trip device to trip the breaker on loss of voltage, therefore, no immediate changes to the UV device settings or configuration of parts was recommended. As stated in the referenced letter, we have implemented their recommendation that following energization of the UV device on the RTB's, the position of the armature should be visually inspected and, if necessary, manually assisted to the proper closed air gap position before closing the breaker, in order to assure the armature is in the optimum position for subsequent tripping.

22  
IE-20 11

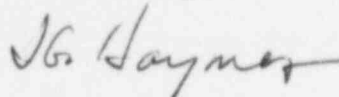
Mr. J. B. Martin

-2-

January 31, 1984

Revision 1 to LER 83-091 is enclosed. If you require any additional information, please so advise.

Sincerely,



Enclosure: LER No. 83-091, Revision 1, (Docket No. 50-361)

cc: A. E. Chaffee (USNRC Resident Inspector, Units 1, 2 and 3)  
J. P. Stewart (USNRC Resident Inspector, Units 2 and 3)

U. S. Nuclear Regulatory Commission  
Office of Inspection and Enforcement

U. S. Nuclear Regulatory Commission  
Division of Technical Information and Document Control

Institute of Nuclear Power Operations (INPO)