APPROVED BY OME U.S. NUCLEAR REQULATORY COMMISSION NAC FORM 166 (12-81) 10 CHA 50 3150-0011 LICENSEE EVENT REPORT (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) CONTRUL BLOCK 10 -10 0 0 0 0 0 - 0 0 3 4 1 1 1 1 1 0 57 CA C A S O S 3 0 0 0 01 CON'T REPORT L 0 1 EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) [0]2] LOA 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-0 3 up. On 10/28/83, with Unit 3 in Mode 3, RTB's 5 and 8 were observed to 0 4 be in the same condition. On 10/31/83, with both Units 2 and 3 in 0 5 | Mode 1, Unit 2 RTB 4 and Unit 3 RTB's 5 and 8 were found in this con-C 6 [dition. (See attachment.) 0 7 0 8 ... COMP SUBCODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE SUBCODE (16) BRK E (12) (11) B (13) C KIT A 0 9 ... 1. REVISION CODE REPORT SEQUENTIAL YPE REPORT NO LER RO 11 91 0 (17) 32 31 30 COMPONENT 26 22 ATTACHMENT PRIME COMP. NPRD-4 METHOD EFFECT ACTION FUTURE FORM SUB MANUFAC SUPPLIER HOURS G 10 8 0 N 24 Z 21 Y 23 N 25 10101010 20 E 18 X 19 CAUSE DESCRIPTION AND CORRECTIVE ACTIONS 27 UV armatures not being fully picked-up is the result of interference 10 between the UV armature and the copper shading ring around the coil core. 1 1 All affected RTB's were reset. As corrective action, visual verification 1 2 1 3 and manual adjustment of proper closed air gap position is required following energization of the UV device. Diode elimination is being 4 1 40 investigated. A PACILITY METHOD OF (32) DISCOVERY DESCRIPTION (30) OTHER STATUS S POWER STATUS Surveillance Testing | B (31) B 28 0 00 29 NA 1 5 80 ACTIVITY CONTENT 45 12 13 LOCATION OF RELEASE (36) (35) AMOUNT OF ACTIVITY Z 33 Z 3 NA NA 6 80 1.0 PERSONNEL EXPOSURES NUMBER 0 0 0 0 0 Z 38 NA 1 7 PERSONNEL INJURIES DESCRIPTION (4) 80 8402150218 840131 PDR ADOCK 05000362 NUMBER NA 180000 PDR :22 80 LOSS OF OR DAMAGE TO FACILITY 1 Z (2) NA . . 1 9 PUBLICITY ISSUED DESCRIPTION (45) NRC USE ONLY NA 20 N . 714/492-7700 J. G. HAYNES VH PHONE: NAME OF PREPARER

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).

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Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION P.O. BOX 128 SAN CLEMENTE, CALIFORNIA 92672

J. G. HAYNES STATION MANAGER

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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 'icensee 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.

IE-20 , 1



TELEPHONE

(714) 492-7700

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

Sincerely, JG. Laynor

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)