

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8809140217 DOC.DATE: 88/09/01 NOTARIZED: NO DOCKET #  
 FACIL:50-361 San Onofre Nuclear Station, Unit 2, Southern Californ 05000361  
 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  
 MARTIN,J.B. Region 5, Ofc of the Director

SUBJECT: Submits License Condition 2.G 14 day rept re certain requirements of App R not fully implemented.

DISTRIBUTION CODE: IE01D COPIES RECEIVED:LTR 1 ENCL 0 SIZE: 3  
 TITLE: General (50 Dkt)-Insp Rept/Notice of Violation Response

## NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD5 PD	1 1	HICKMAN,D	2 1
INTERNAL:	ACRS	2 2	AEOD	1 1
	DEDRO	1 1	NRR MORISSEAU,D	1 1
	NRR/DLPQ/PEB 11	1 1	NRR/DLPQ/QAB 10	1 1
	NRR/DOEA DIR 11	1 1	NRR/DREP/EPB 10	1 1
	NRR/DREP/RPB 10	2 2	NRR/DRIS DIR 9A	1 1
	NRR/PMAS/ILRB12	1 1	NUDOCS-ABSTRACT	1 1
	OE LIEBERMAN,J	1 1	OGC/HDS2	1 1
	REG FILE 02	1 1	RES/DSIR DEPY	1 1
	RGNS FILE 01	1 1		
EXTERNAL:	LPDR	1 1	NRC PDR	1 1
	NSIC	1 1		

TOTAL NUMBER OF COPIES REQUIRED: LTTR 25 ENCL

25<sup>0</sup>

*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

September 1, 1988

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

Attention: John B. Martin, Regional Administrator

Dear Sir:

Subject: Docket Nos. 50-361 and 50-362  
License Condition 2.G 14-Day Report  
San Onofre Nuclear Generating Station, Units 2 and 3

- References: 1) Letter, H. E. Morgan (SCE) to J. B. Martin (NRC),  
Subject: "Docket No. 50-361, Prompt Report, License  
Condition 2.C(14)a," dated August 19, 1988.
- 2) Letter, M. O. Medford (SCE) to Nuclear Regulatory  
Commission, Document Control Desk, Subject: "Docket  
Nos. 50-361 and 50-362, San Onofre Nuclear Generating  
Station Units 2 and 3," dated May 31, 1987.
- 3) Letter, M. O. Medford (SCE) to Nuclear Regulatory  
Commission, Document Control Desk, Subject: "Docket  
Nos. 50-361 and 50-362, San Onofre Nuclear Generating  
Station Units 2 and 3," dated January 21, 1988.

Reference 1 provided the confirmation of a prompt notification made pursuant to Low Power License Condition 2.G of Facility Operating License NPF-10 for San Onofre Unit 2. The notification advised the NRC of a plant condition which constituted a violation of License Condition 2.C.(14)a, Fire Protection. Specifically, we determined that certain requirements related to Appendix R, Section III.G.2, committed to in previous licensing submittals, were not fully implemented. This submittal provides the required 14-Day Follow-up report. Reference 1 also indicates that the notification was not applicable to Unit 3. SCE has conducted a review of the issue with respect to our previous submittals and has determined that this condition is also reportable pursuant to License Condition 2.C.(12)a of Facility Operating License NPF-15 for San Onofre Unit 3. Therefore, this 14-Day report addresses both Units 2 and 3.

8809140217 880901  
PDR ADOCK 05000361  
F PNU

93 SEP 2 17:28

RECEIVED  
NRC  
REGION V

1/0  
JEO

License Conditions 2.C.(14)a and 2.C.(12)a for Units 2 and 3, respectively, require that SCE maintain in effect and fully implement the Fire Protection Plan and that any deviations from that plan which also violate sections III.G, III.J, or III.O of 10 CFR 50, Appendix R be reported pursuant to License Condition 2.G. SCE has determined that the recent discovery of inappropriate fuses having been installed in the plant could have had an adverse impact on achieving and/or maintaining the plant in a safe shutdown condition under a 10 CFR 50, Appendix R scenario. This condition constitutes a deviation from Appendix R, Section III.G.2. Contrary to the information provided in Reference 1, this condition was not previously identified as part of the Appendix R reanalysis and was not identified in Reference 2 as an existing deficiency requiring correction prior to completing the Cycle IV refueling outages for each unit.

While fulfilling a commitment to install labels for Appendix R fuses in the vicinity of each fuse holder for Units 2 and 3 (Reference 3), SCE decided to simultaneously conduct a program to verify that the installed fuses were consistent with the breaker/fuse coordination study performed as part of the Appendix R reassessment. During this verification, SCE determined that not all fuses installed in Units 2 and 3 were in accordance with the coordination study.

The result of the Unit 2 verification program identified that 94 of the 359 Appendix R fuses were different than the specified type. Of the 94 fuses, 72 were evaluated to provide acceptable coordination, while the remaining 22 fuses required replacement in order to support proper fuse coordination. All 94 of the Unit 2 fuses have been replaced with the specified type. The results of the Unit 3 verification program identified that 75 of the 322 Appendix R fuses were different than the specified type. Of the 75 fuses, 6 required replacement in order to provide acceptable coordination and have been replaced. The remaining 69 fuses, although not in accordance with design documentation, were determined to provide acceptable coordination. Of these, 9 have already been replaced, 56 will be replaced at the next plant outage of sufficient duration, and the remaining 4 will be retained by revising appropriate design documents.

An investigation into the cause of the condition noted above has identified that the elementary electrical diagrams and vendor diagrams do not in all cases provide adequate information regarding fuses (e.g., while ampere rating may be specified, voltage, manufacturer and type are sometimes not included). As a result, incorrect fuses may have been installed during original construction or during replacement activities. We have also determined that the current guidance provided to members of the plant staff for ensuring that fuse replacements are done correctly can be enhanced.

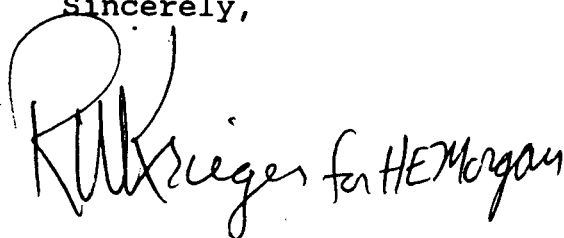
Mr. J. B. Martin

- 3 -

Fuse holder labels have been installed for the Appendix R fuses addressed in this report. This will aid in ensuring proper future replacement. In order to consolidate information from pertinent design documents, an electrical setpoint list is being prepared which will display protective device settings (e.g., circuit breakers and fuses) in a convenient and easily retrievable document. Appendix R circuits and other appropriate safety-related circuits will be included. The elementary electrical diagrams and the vendor diagrams will be revised in order to correct any data discrepancies with the electrical setpoint list currently being developed. Additionally, station procedures for the replacement of fuses will be enhanced to require the individual replacing the fuse to verify that it matches the label requirements or, in the absence of a label, is in accordance with the electrical setpoint list. As further assurance, the importance of replacing fuses or reinstalling fuses removed for circuit clearances with the appropriate size and type of fuse will be incorporated into the operator and maintenance personnel training programs. The station procedure changes will be issued after the issuance of the electrical setpoint list. The electrical setpoint List, drawing changes and training program modifications will be completed prior to December 15, 1988.

If you require any additional information, please so advise.

Sincerely,

A handwritten signature in dark ink, appearing to read "R. K. Seiger for HEMorgan". The signature is written in a cursive, somewhat stylized script.

CCMeddings

cc: F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2 and 3)  
NRC Document Control Desk  
Institute of Nuclear Power Operations (INPO)