

*Southern California Edison Company*

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92674-0128

R. W. KRIEGER  
STATION MANAGER

TELEPHONE  
(714) 368-6255

February 28, 1991

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

Subject: Docket Numbers 50-206, 50-361 and 50-362  
Annual Personnel Monitoring Report - 1990  
San Onofre Nuclear Generating Station, Units 1, 2 and 3

Pursuant to 10 CFR 20.407 and Sections 6.9.1.4/5 of Appendix A, Technical Specifications to Provisional Operating License No. 13 for San Onofre Unit 1 and Facility Operating Licenses NPF-10 and NPF-15 for San Onofre Units 2 and 3, respectively, this submittal provides the Annual Personnel Monitoring Report for 1990. The report includes the number of individuals for whom personnel monitoring was required during the calendar year, the annual exposure distribution summary and the Regulatory Guide 1.16 Statistical Summary by work and job function.

If there are any questions regarding information in this report, please so advise.

Sincerely,



Enclosure

cc: C. W. Caldwell (USNRC Senior Resident Inspector, Units 1, 2 and 3)

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

Institute of Nuclear Power Operations (INPO)

9103050479 901231  
FDR ADOCK 05000206  
R FDR

IE56  
11

PERSONNEL WHOLE BODY EXPOSURES FOR CALENDAR YEAR 1990

LICENSEE REPORTING (NAME & ADDRESS)

LICENSE NO.

SOUTHERN CALIFORNIA EDISON COMPANY  
SAN ONOFRE NUCLEAR GENERATING STATION  
P.O. BOX 128  
SAN CLEMENTE, CA. 92672

DPR-13, NPF-10, NPF-15  
SUMMARY

ANNUAL DOSE RANGES\*  
(REM)

NUMBER OF INDIVIDUALS  
IN EACH RANGE

NO MEASURABLE EXPOSURE	2017
MEASURABLE EXPOSURE LESS THAN 0.10	878
0.10 - 0.25	391
0.25 - 0.50	316
0.50 - 0.75	260
0.75 - 1.0	195
1.0 - 2.0	190
2.0 - 3.0	44
3.0 - 4.0	0
4.0 - 5.0	0
5.0 - 6.0	0
6.0 - 7.0	0
7.0 - 8.0	0
8.0 - 9.0	0
9.0 - 10.0	0
10.0 - 11.0	0
11.0 - 12.0	0
12+	0

TOTAL NBR OF INDIVIDUALS REPORTED 4291 TOTAL MAN-REM 843.774

THIS REPORT IS SUBMITTED IN ACCORDANCE WITH 10CFR20.407(a)(1).

\*INDIVIDUAL VALUES EXACTLY EQUAL TO THE VALUES SEPARATING EXPOSURE RANGES SHALL BE REPORTED IN THE HIGHER RANGE.

REGULATORY GUIDE 1.16 STATISTICAL SUMMARY FOR 1990

TOTAL NBR OF INDIVIDUALS RECEIVING GREATER THAN 100 MREM			1396	SUMMARY		
	NUMBER OF WORKERS			DPR-13, NPF-10, NPF-15 EXPOSURE (PERSON REM)		
	STATION	UTILITY	OTHERS	STATION	UTILITY	OTHERS
RX OPS & SURV						
MAIN	10	3	14	0.205	0.046	0.288
OPS.	27	1	1	1.508	0.037	0.064
H.P.	0	0	1	0.000	0.000	0.023
SUPV	0	0	0	0.000	0.000	0.000
ENGR	7	1	3	0.523	0.389	0.094
ROUTINE MAINT						
MAIN	146	23	595	85.613	11.247	432.515
OPS.	45	2	5	10.540	0.360	2.219
H.P.	80	2	217	43.770	1.427	136.547
SUPV	6	1	7	5.407	0.737	3.635
ENGR	76	9	180	30.292	2.068	87.726
INSERVICE INSP						
MAIN	1	0	3	0.017	0.000	0.150
OPS.	1	0	0	0.004	0.000	0.000
H.P.	4	0	1	0.296	0.000	0.026
SUPV	0	0	0	0.000	0.000	0.000
ENGR	1	0	0	0.013	0.000	0.000
SPECIAL MAINT						
MAIN	0	0	0	0.000	0.000	0.000
OPS.	0	0	0	0.000	0.000	0.000
H.P.	0	0	0	0.000	0.000	0.000
SUPV	0	0	0	0.000	0.000	0.000
ENGR	0	0	0	0.000	0.000	0.000
WASTE PROCESSING						
MAIN	0	0	5	0.000	0.000	0.611
OPS.	0	0	0	0.000	0.000	0.000
H.P.	4	0	13	0.260	0.000	0.613
SUPV	0	0	0	0.000	0.000	0.000
ENGR	0	0	12	0.000	0.000	2.427
REFUELING						
MAIN	0	0	0	0.000	0.000	0.000
OPS.	0	0	0	0.000	0.000	0.000
H.P.	0	0	0	0.000	0.000	0.000
SUPV	0	0	0	0.000	0.000	0.000
ENGR	0	0	0	0.000	0.000	0.000
TOTAL						
MAIN	146	23	596	85.837	11.294	433.567
OPS.	45	2	5	12.053	0.398	2.284
H.P.	80	2	217	44.328	1.427	137.210
SUPV	6	1	7	5.407	0.737	3.635
ENGR	76	9	181	30.830	2.458	90.248
GRAND TOTALS	353	37	1006	178.455	16.314	666.944

TOT # OF INDIVIDUALS RECEIVING GREATER THAN 500 MREM IN A SINGLE EXPOSURE 56

\*\*\*\*\*