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

Gentlemen:

Subject: Docket Number 50-206, 50-361, 50-363
Annual Personnel Monitoring Report - 1993
San Onofre Nuclear Generating Station, Units 1, 2, and 3

This submittal provides the Annual Personnel Monitoring Report for 1993 pursuant to 10 CFR 20.407 and sections 6.9.1.5 of appendix A, Technical Specifications to Facility Licenses DPR-13, NPF-10, and NPF-15 for San Onofre Units 1, 2, and 3, respectively. 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. Future Annual Personnel Monitoring reports will be submitted in accordance with section 10 CFR 20.2206 which became effective January 1, 1994 and supersedes 10 CFR 20.407.

If you require additional information, please let me know.

Sincerely,

Walter C. Marsh

Enclosure

cc: K. E. Perkins, Jr., Acting Regional Administrator, NRC Region V
M. K. Webb, NRC Project Manager, San Onofre Unit 1
M. B. Fields, NRC project Manager, San Onofre Units 2 & 3
J. A. Sloan, NRC Senior Resident Inspector, San Onofre Units 1, 2, & 3
R. F. Dudley, Section Chief, Non-Power, Decommissioning, and
Environmental Project, Directorate of Reactor Projects - 3, 4, & 5

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NUMBER OF INDIVIDUALS RECEIVING GREATER THAN 100 MREM BY WORK AND JOB FUNCTION

	NUMBER OF WORKERS			EXPOSURE (PERSON REM)		
	STATION	UTILITY	OTHERS	STATION	UTILITY	OTHERS
RX OPS & SURV						
MAIN	59	9	136	1.496	0.049	9.649
OPS.	17	26	12	1.509	3.069	2.642
H.P.	56	2	113	17.794	0.185	45.391
SUPV	2	1	3	0.570	0.679	0.036
ENGR	34	4	36	1.625	0.124	1.143
ROUTINE MAINT						
MAIN	140	20	633	24.520	4.364	119.631
OPS.	25	33	15	4.611	5.611	2.560
H.P.	55	2	211	5.802	0.251	29.878
SUPV	1	1	5	0.148	0.003	1.756
ENGR	39	7	75	1.929	0.311	5.152
INSERVICE INSP						
MAIN	22	3	195	0.310	0.004	41.823
OPS.	4	3	0	0.155	0.030	0.000
H.P.	2	0	9	0.086	0.000	0.038
SUPV	1	0	1	0.000	0.000	0.002
ENGR	32	6	54	3.143	0.565	12.986
SPECIAL MAINT						
MAIN	122	19	582	27.697	8.628	137.237
OPS.	6	8	2	0.092	0.055	0.011
H.P.	30	1	145	2.856	0.039	29.215
SUPV	1	1	13	0.076	0.012	3.151
ENGR	36	4	99	6.099	0.238	32.926
WASTE PROCESSING						
MAIN	2	0	18	0.033	0.000	0.302
OPS.	0	0	0	0.000	0.000	0.000
H.P.	19	2	99	1.321	0.086	10.797
SUPV	0	0	0	0.000	0.000	0.000
ENGR	5	1	1	0.010	0.001	0.118
REFUELING						
MAIN	66	4	163	28.537	0.096	74.354
OPS.	7	3	3	0.564	0.252	0.194
H.P.	31	2	131	1.669	0.214	10.840
SUPV	1	1	1	0.060	0.146	0.022
ENGR	25	7	23	3.329	1.207	4.125
TOTAL						
MAIN	149	20	722	82.595	13.143	382.998
OPS.	26	33	15	6.933	9.019	5.408
H.P.	64	2	219	29.531	0.777	126.162
SUPV	2	2	14	0.857	0.841	4.970
ENGR	45	8	132	16.139	2.449	56.454
GRAND TOTALS	286	65	1102	136.055	26.229	575.992

TOTAL # OF INDIVIDUALS RECEIVING GREATER THAN 100 MREM: 1453

TOTAL # OF INDIVIDUALS RECEIVING GREATER THAN 500 MREM IN A SINGLE EXPOSURE: 17

Note: The TOTAL fields are not a summation of the Worker and Exposure breakdowns by Job Function, since:

Workers may be entered in more than one job function but are only counted once in the total. (e.g. A maintenance worker may work on a refueling job and a routine maintenance job and is therefore counted in both job functions; however, he/she is only counted once in the maintenance Total)

Exposure is calculated from pocket dosimeter dose for each worker on each job. Pocket dosimeter readings are used to ratio and distribute the measured TLD doses into the above exposure columns.

PERSONNEL WHOLE BODY EXPOSURES FOR CALENDAR YEAR 1993

ANNUAL DOSE RANGES* (REM)	NUMBER OF INDIVIDUALS IN EACH RANGE
NO MEASURABLE EXPOSURE	2060
MEASURABLE EXPOSURE LESS THAN 0.10	740
0.10 - 0.25	416
0.25 - 0.50	423
0.50 - 0.75	314
0.75 - 1.0	164
1.0 - 2.0	131
2.0 - 3.0	5
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 NUMBER OF INDIVIDUALS REPORTED 4253 TOTAL MAN-REM 767.488

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.