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 RECIP. NAME RECIPIENT AFFILIATION
 Office of Nuclear Regulatory Research (Post 860720)

SUBJECT: Palo Verde Nuclear Generating Station Personnel Monitoring
 Rept for 1993.W/940311 ltr.

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Arizona Public Service Company

PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 • PHOENIX, ARIZONA 85072-2034

102-02859-AKK/RAB/JRP

March 11, 1994

Director
Office of Nuclear Regulatory Research
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Sirs:

**Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
Personnel Monitoring Reports for 1993
File: 94-019-026; 94-056-026**

Enclosed please find a copy of the Personnel Monitoring Report for 1993 which is submitted pursuant to 10 CFR 20.407(a)(2), as supplemented by PVNGS Technical Specification 6.9.1.5. On January 1, 1994, Arizona Public Service Company (APS) began collecting data for the Personnel Monitoring Report pursuant to 10 CFR 20.2206.

Should you have any questions, please contact Richard A. Bernier of my staff at (602) 393-5882.

Sincerely,



Angela K. Krainik, Manager
Nuclear Licensing

AKK/RAB/JRP/rv
Enclosure

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APS/PVNGS RADIOLOGICAL RECORDS & ACCESS CONTROL SYSTEM
ANNUAL EXPOSURE SUMMARY REPORT
(FOR THE YEAR 1993)

PAGE: 1

DATE: 01/28/94 TIME: 11:14:49

Arizona Public Service Company
P.O. Box 52034 Phoenix, AZ 85072-2034

Palo Verde Nuclear Generation Station
NRC-License No. NPF-41 NPF-51 NPF-74

Work & Job Function	Number of Personnel (> 100mR)			Total Man-Rem		
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers
REACTOR OPERATIONS & SURVEILLANCE						
Maintenance Personnel	2	0	2	1.237	0.000	0.650
Operating Personnel	64	0	1	15.686	0.000	0.435
Health Physics Personnel	53	0	63	14.671	0.000	16.205
Supervisory Personnel	2	0	0	1.170	0.000	0.145
Engineering Personnel	1	0	3	1.531	0.000	0.700
ROUTINE MAINTENANCE						
Maintenance Personnel	157	0	487	59.864	0.000	261.487
Operating Personnel	18	0	6	7.386	0.000	2.204
Health Physics Personnel	50	0	82	21.582	0.000	29.262
Supervisory Personnel	10	0	4	3.083	0.000	2.463
Engineering Personnel	13	0	50	5.536	0.000	29.014
INSERVICE INSPECTION						
Maintenance Personnel	7	0	112	2.022	0.000	58.048
Operating Personnel	2	0	2	1.135	0.000	1.740
Health Physics Personnel	10	0	38	3.145	0.000	9.680
Supervisory Personnel	1	0	2	0.340	0.000	0.504
Engineering Personnel	2	0	21	2.110	0.000	9.700
SPECIAL MAINTENANCE						
Maintenance Personnel	0	0	3	0.090	0.000	1.789
Operating Personnel	0	0	0	0.000	0.000	0.040
Health Physics Personnel	0	0	0	0.050	0.000	0.160
Supervisory Personnel	0	0	0	0.010	0.000	0.000
Engineering Personnel	0	0	1	0.000	0.000	0.220
WASTE PROCESSING						
Maintenance Personnel	1	0	1	0.240	0.000	0.810
Operating Personnel	0	0	2	0.040	0.000	0.425
Health Physics Personnel	14	0	12	4.935	0.000	4.047
Supervisory Personnel	0	0	1	0.185	0.000	0.300
Engineering Personnel	0	0	0	0.000	0.000	0.010
REFUELING						
Maintenance Personnel	17	0	38	7.121	0.000	13.454
Operating Personnel	7	0	1	2.510	0.000	0.665
Health Physics Personnel	10	0	10	2.505	0.000	3.030
Supervisory Personnel	4	0	0	2.053	0.000	0.020
Engineering Personnel	6	0	9	2.009	0.000	2.214
TOTAL						
Maintenance Personnel	184	0	643	70.574	0.000	336.238
Operating Personnel	91	0	12	26.757	0.000	5.509
Health Physics Personnel	137	0	205	46.888	0.000	62.384
Supervisory Personnel	17	0	7	6.841	0.000	3.432
Engineering Personnel	22	0	84	11.186	0.000	41.858
GRAND TOTAL	451	0	951	162.246	0.000	449.421

TOTAL RECORD SID WHOLE BODY DOSE FOR THE YEAR 1993 : 611.667 REM
TOTAL RECORD TLD WHOLE BODY DOSE FOR THE YEAR 1993 : 591.547 REM



APS/PVNGS RADIOLOGICAL RECORDS & ACCESS CONTROL SYSTEM
 10-CFR-20 STATISTICAL SUMMARY REPORT
 (FOR THE YEAR OF 1993)
 DATE: 01/28/94 TIME: 11:35:22

Arizona Public Service Company
 P.O. Box 52034
 Phoenix, AZ 85072-2034

Palo Verde Nuclear
 Generation Station
 NRC-License No.
 NPF-41 NPF-51 NPF-74

ESTIMATED WHOLE BODY EXPOSURE RANGE	NUMBER OF INDIVIDUALS IN EACH RANGE *
No Measurable Exposure	2231
Measurable Exposure Less Than 0.1	950
0.1 to 0.25	434
0.25 to 0.5	320
0.5 to 0.75	187
0.75 to 1	110
1 to 2	122
2 to 3	1
3 to 4	0
4 to 5	0
5 to 6	0
6 to 7	0
7 to 8	0
8 to 9	0
9 to 10	0
10 to 11	0
11 to 12	0
12 +	0

TOTAL NUMBER OF INDIVIDUALS 4355

TOTAL RECORD SID WHOLE BODY DOSE FOR THE YEAR 1993 : 611.667 REM
 TOTAL RECORD TLD WHOLE BODY DOSE FOR THE YEAR 1993 : 591.547 REM

*Individuals values exactly equal to the values separating exposure ranges shall be reported in the higher range

