

VIRGINIA ELECTRIC AND POWER COMPANY  
 RICHMOND, VIRGINIA 23261

March 26, 1993

Director, Office of Nuclear Regulatory Research  
 United States Nuclear Regulatory Commission  
 Washington, D. C. 20555

Serial No. 93-166  
 NL/RPC  
 Docket Nos. 50-280  
 50-281  
 72-2  
 License Nos. DPR-32  
 DPR-37  
 SNM-2501

Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**SURRY POWER STATION UNITS 1 AND 2**  
**INDEPENDENT SPENT FUEL STORAGE INSTALLATION**  
**ANNUAL WHOLE BODY EXPOSURE REPORT**  
**ANNUAL REACTOR COOLANT IODINE REPORT**

Pursuant to Title 10, Code of Federal Regulations, Section 20.407 (a)(1), and Surry Technical Specification Section 6.6.A.2.a, Virginia Electric and Power Company submits the attached reports of Annual Whole Body Exposures for the Surry Power Station, for the calendar year 1992.

In addition, this correspondence confirms that no annual report of specific activity analysis is required for 1992 pursuant to the reporting requirements of Surry Technical Specification 6.6.A.2.b. The specific activity of the reactor coolant for Surry Power Station Units 1 and 2 did not exceed 1.0  $\mu\text{Ci}/\text{cc}$  DOSE EQUIVALENT I-131 or  $100/E \mu\text{Ci}/\text{cc}$  as stipulated in Surry Technical Specification 3.1.D.4 during the calendar year 1992.

Very truly yours,



M. L. Bowling, Manager  
 Nuclear Licensing and Programs

Attachment

cc: U. S. Nuclear Regulatory Commission  
 Region II  
 101 Marietta Street, N. W.  
 Suite 2900  
 Atlanta, Georgia 30323

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

Mr. M. W. Branch  
 NRC Senior Resident Inspector

Surry Power Station  
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RECORDED ANNUAL WHOLE BODY EXPOSURE REPORT

SURRY POWER STATION

FOR THE PERIOD

JANUARY 1, 1992 - DECEMBER 31, 1992

Prepared By:

*D.W. Densmore*

D.W. Densmore  
Supervisor Exposure Control

Reviewed By:

*B.A. Garber*

B.A. Garber  
Supervisor Health Physics  
(Technical Services)

Approved By:

*D.L. Erickson*

D.L. Erickson  
Superintendent Radiological Protection

RECORD ANNUAL WHOLE BODY EXPOSURES  
(BASED ON THERMOLUMINESCENT DOSIMETRY)  
SURRY POWER STATION

CALENDAR YEAR 1992

DOSE RANGE (MREM)	NUMBER OF INDIVIDUALS
NO MEASURABLE EXPOSURE	1,232
1 - 99	583
100 - 249	319
250 - 499	373
500 - 749	199
750 - 999	90
1,000 - 1,999	91
2,000 - 2,999	5
3,000 - 3,999	0
4,000 - 4,999	0
5,000 - 5,999	0
6,000 - 6,999	0
7,000 - 7,999	0
8,000 - 8,999	0
9,000 - 9,999	0
10,000 - 10,999	0
11,000 - 11,999	0
12,000 - PLUS	0
TOTAL NUMBER OF INDIVIDUALS REPORTED	2,892
TOTAL STATION MAN-REM AS DETERMINED BY TLD	539.058

**MAN-REM EXPOSURE WORK/JOB FUNCTION  
(BASED ON SELF-READING DOSIMETRY)  
SURRY POWER STATION**

**CALENDAR YEAR 1992**

Work And Job Function	Number of Personnel			Total Man-Rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
Reactor Operations and Surveillance Totals	848	147	984	62.499	.404	54.295	117.198
Maintenance Personnel	190	2	593	5.866	.000	2.233	8.099
Operating Personnel	325	64	107	29.800	.076	1.607	31.483
Health Physics Personnel	83	2	187	18.683	.008	46.098	64.789
Supervisory Personnel	151	9	65	4.906	.053	3.933	8.892
Engineering Personnel	99	70	31	3.244	.267	.424	3.935
Other	0	0	1	.000	.000	.000	.000
Inservice Inspection Totals	30	1	244	1.801	.014	39.443	41.258
Maintenance Personnel	1	0	163	.037	.000	27.681	27.718
Operating Personnel	14	0	22	.254	.000	2.601	2.855
Health Physics Personnel	5	0	14	.148	.000	1.116	1.264
Supervisory Personnel	3	0	11	.037	.000	1.098	1.135
Engineering Personnel	7	1	34	1.325	.014	6.947	8.286
Other	0	0	0	.000	.000	.000	.000
Routine Maintenance Totals	557	19	1,017	88.635	.089	156.199	244.923
Maintenance Personnel	180	0	700	60.416	.000	103.395	163.811
Operating Personnel	196	9	90	4.381	.008	7.043	11.432
Health Physics Personnel	67	1	140	13.946	.001	34.527	48.474
Supervisory Personnel	82	1	56	8.472	.012	6.973	15.457
Engineering Personnel	32	8	31	1.420	.068	4.261	5.749
Other	0	0	0	.000	.000	.000	.000
Waste Processing Totals	98	1	41	3.436	.004	.635	4.075
Maintenance Personnel	24	0	14	.032	.000	.183	.215
Operating Personnel	18	1	7	1.021	.004	.052	1.077
Health Physics Personnel	38	0	16	1.659	.000	.337	1.996
Supervisory Personnel	16	0	4	.724	.000	.063	.787
Engineering Personnel	2	0	0	.000	.000	.000	.000
Other	0	0	0	.000	.000	.000	.000

**MAN-REM EXPOSURE WORK/JOB FUNCTION  
(BASED ON SELF-READING DOSIMETRY)  
SURRY POWER STATION**

CALENDAR YEAR 1992

Work And Job Function	Number Of Personnel			Total Man-Rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
Refueling Totals	26	6	43	.579	.113	1.812	2.504
Maintenance Personnel	0	0	24	.000	.000	1.369	1.369
Operating Personnel	9	5	2	.390	.097	.299	.786
Health Physics Personnel	14	0	16	.052	.000	.133	.185
Supervisory Personnel	3	0	0	.137	.000	.000	.137
Engineering Personnel	0	1	1	.000	.016	.011	.027
Other	0	0	0	.000	.000	.000	.000
Special Maintenance Totals	127	23	676	11.709	1.115	164.783	177.607
Maintenance Personnel	49	1	466	2.123	.000	111.207	113.330
Operating Personnel	19	2	24	1.401	.013	4.467	5.881
Health Physics Personnel	31	0	84	6.238	.000	11.558	17.796
Supervisory Personnel	12	0	33	1.000	.000	8.819	9.819
Engineering Personnel	16	20	69	.947	1.102	28.732	30.781
Other	0	0	0	.000	.000	.000	.000
All Work Functions Total	1,686	197	3,005	168.659	1.739	417.167	587.565
Maintenance Personnel	444	3	1,960	68.474	.000	246.068	314.542
Operating Personnel	581	81	252	37.247	.198	16.069	53.514
Health Physics Personnel	238	3	457	40.726	.009	93.769	134.504
Supervisory Personnel	267	10	169	15.276	.065	20.886	36.227
Engineering Personnel	156	100	166	6.936	1.467	40.375	48.778
Other	0	0	1	.000	.000	.000	.000