

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

March 18, 2003

United States Nuclear Regulatory Commission  
Attention: Document Control Desk  
Washington, D. C. 20555

Serial No. 03-228  
NAPS/JRP  
Docket Nos. 50-338  
50-339  
License Nos. NPF-4  
NPF-7

Gentlemen:

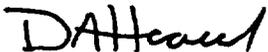
**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNIT NOS. 1 AND 2**  
**ANNUAL OCCUPATIONAL RADIATION EXPOSURE DATA REPORT**

Pursuant to Technical Specifications 5.6.1, enclosed is the annual, Occupational Radiation Exposure Data Report for North Anna Power Station Unit Nos. 1 and 2 for the reporting period of January 1, 2002 to December 31, 2002. The activities considered Special Maintenance in the enclosure consisted of:

1. Service Water Piping Replacement
2. Removal of 2-RC-P-1B Motor Access Covers
3. Unit 2, Reactor Head Inspection and Replacement

If you have any questions or require additional information, please contact us.

Very truly yours,

  
D. A. Heacock  
Site Vice President

Enclosure

Commitments made in this letter: None

IE56

cc: U. S. Nuclear Regulatory Commission  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, Georgia 30303

REIRS, Project Manager  
Office of Nuclear Regulatory Research  
United States Nuclear Regulatory Commission  
Washington, D. C. 20555

Mr. M. J. Morgan  
NRC Senior Resident Inspector  
North Anna Power Station

**PERSONNEL RADIATION EXPOSURE MANAGEMENT SYSTEM**  
**Man-rem Exposure - Work/Job Function Report**  
 (Based on Self-reading Dosimetry)  
**NORTH ANNA POWER STATION**  
 License Numbers NPF-4, NPF-7  
 Calendar Year 2002

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>REACTOR OPERATIONS&amp;S</b>							
Total	217	39	117	4 016	.077	1.709	5 802
MAINTENANCE PERSONNEL	23	1	72	2.133	.004	1.453	3 590
OPERATING PERSONNEL	118	16	3	1.597	.036	.009	1.642
HEALTH PHYSICS PERSONNEL	39	3	9	.175	.000	.050	.225
SUPERVISORY PERSONNEL	30	14	12	.099	.025	.092	.216
ENGINEERING PERSONNEL	7	5	21	.012	.012	.105	.129
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>INSERVICE INSPECTION</b>							
Total	50	11	53	.976	.076	2 031	3 083
MAINTENANCE PERSONNEL	12	5	21	.110	.000	.594	.704
OPERATING PERSONNEL	18	1	0	.641	.000	.011	.652
HEALTH PHYSICS PERSONNEL	9	0	6	.006	.000	.061	.067
SUPERVISORY PERSONNEL	0	0	0	.000	.000	.000	.000
ENGINEERING PERSONNEL	11	5	26	.219	.076	1.365	1.660
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>ROUTINE MAINTENANCE</b>							
Total	679	236	799	38 357	1.361	28.700	68 418
MAINTENANCE PERSONNEL	250	25	580	22.760	.384	23 680	46 824
OPERATING PERSONNEL	228	108	53	4.986	.275	.228	5.489
HEALTH PHYSICS PERSONNEL	78	19	90	6.259	.130	4.164	10 553
SUPERVISORY PERSONNEL	55	45	15	3.537	.372	.041	3 950
ENGINEERING PERSONNEL	68	39	61	.815	.200	.587	1.602
OTHERS	0	0	0	.000	.000	.000	.000

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	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>WASTE DISPOSAL</b>							
Total	127	2	5	557	.001	.002	.560
MAINTENANCE PERSONNEL	41	0	1	.055	.000	.000	.055
OPERATING PERSONNEL	42	1	0	.158	.001	.000	.159
HEALTH PHYSICS PERSONNEL	33	0	4	.333	.000	.002	.335
SUPERVISORY PERSONNEL	10	1	0	.011	.000	.000	.011
ENGINEERING PERSONNEL	1	0	0	.000	.000	.000	.000
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>REFUELING</b>							
Total	176	29	81	4.794	.171	2.967	7.932
MAINTENANCE PERSONNEL	66	3	52	2.712	.077	2.176	4.965
OPERATING PERSONNEL	59	23	4	.793	.069	.013	.875
HEALTH PHYSICS PERSONNEL	36	0	19	.679	.000	.348	1.027
SUPERVISORY PERSONNEL	13	3	0	.321	.025	.000	.346
ENGINEERING PERSONNEL	2	0	6	.289	.000	.430	.719
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>SPECIAL MAINTENANCE</b>							
Total	165	18	393	27.162	.436	34.363	61.961
MAINTENANCE PERSONNEL	105	10	292	20.119	.400	23.830	44.349
OPERATING PERSONNEL	7	1	10	.482	.002	.214	.698
HEALTH PHYSICS PERSONNEL	34	1	39	4.271	.007	2.077	6.355
SUPERVISORY PERSONNEL	6	2	14	.118	.018	.749	.885
ENGINEERING PERSONNEL	13	4	38	2.172	.009	7.493	9.674
OTHERS	0	0	0	.000	.000	.000	.000

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	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
<b>DESIGN CHANGES</b>							
Total	14	1	76	.350	.035	1.525	1.910
MAINTENANCE PERSONNEL	0	0	59	.006	.000	1.360	1.366
OPERATING PERSONNEL	1	0	0	.000	.000	.000	.000
HEALTH PHYSICS PERSONNEL	10	1	8	.321	.034	.102	.457
SUPERVISORY PERSONNEL	2	0	3	.018	.001	.022	.041
ENGINEERING PERSONNEL	1	0	6	.005	.000	.041	.046
OTHERS	0	0	0	.000	.000	.000	.000

**ALL WORK FUNCTIONS**

Total	1428	336	1524	76.212	2.157	71.297	149.666
MAINTENANCE PERSONNEL	497	44	1077	47.895	.865	53.093	101.853
OPERATING PERSONNEL	473	150	70	8.657	.383	.475	9.515
HEALTH PHYSICS PERSONNEL	239	24	175	12.044	.171	6.804	19.019
SUPERVISORY PERSONNEL	116	65	44	4.104	.441	.904	5.449
ENGINEERING PERSONNEL	103	53	158	3.512	.297	10.021	13.830
OTHERS	0	0	0	.000	.000	.000	.000

	Number of Workers			Totals
	Station Employees	Utility Employees	Contract Workers	
Total Individuals	684	265	965	1,914