

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**RICHMOND, VIRGINIA 23261**

February 23, 2001

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

Serial No. 01-122  
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Docket Nos. 50-338  
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License Nos. NPF-4  
NPF-7

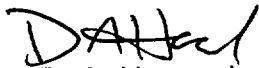
Gentlemen:

**VIRGINIA ELECTRIC AND POWER COMPANY**  
**NORTH ANNA POWER STATION UNIT NOS. 1 AND 2**  
**ANNUAL WHOLE BODY EXPOSURE REPORT**

Pursuant to Technical Specifications 6.9.1.5.a, enclosed is the Annual Whole Body Exposure Report for North Anna Power Station Unit Nos. 1 and 2 for the reporting period of January 1, 2000 to December 31, 2000.

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

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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

# RECORDED ANNUAL WHOLE BODY EXPOSURE REPORT

## NORTH ANNA POWER STATION

JANUARY 1, 2000 - DECEMBER 31, 2000

PREPARED BY: Teresa G. Johnson  
Teresa G. Johnson  
Supervisor  
Exposure Control & Instrumentation

REVIEWED BY: E. W. Dreyer  
Erich W. Dreyer  
Supervisor Health Physics  
(Technical Services)

REVIEWED BY: A. H. Stafford  
A. H. Stafford  
Manager  
Radiological Protection

APPROVED BY: D. A. Heacock  
D. A. Heacock  
Site Vice President  
North Anna Power Station

## **F O R W A R D**

**This report is submitted as required by Technical Specifications 6.9.1.5.a for North Anna Power Station Units 1 and 2.**

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**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 2000

Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>REACTOR OPERATIONS&amp;S</b>							
Total	165	17	4	3.257	.241	.008	3.506
MAINTENANCE PERSONNEL	15	1	0	.052	.004	.000	.056
OPERATING PERSONNEL	109	5	0	2.466	.028	.000	2.494
HEALTH PHYSICS PERSONNEL	14	1	4	.423	.002	.008	.433
SUPERVISORY PERSONNEL	21	10	0	.064	.207	.000	.271
ENGINEERING PERSONNEL	6	0	0	.252	.000	.000	.252
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>INSERVICE INSPECTION</b>							
Total	90	21	72	2.355	.029	1.870	4.254
MAINTENANCE PERSONNEL	38	0	37	.782	.000	.975	1.757
OPERATING PERSONNEL	22	19	0	.675	.012	.000	.687
HEALTH PHYSICS PERSONNEL	14	0	10	.390	.000	.119	.509
SUPERVISORY PERSONNEL	3	0	0	.144	.000	.000	.144
ENGINEERING PERSONNEL	13	2	25	.364	.017	.776	1.157
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>ROUTINE MAINTENANCE</b>							
Total	591	291	567	24.407	.911	18.379	43.697
MAINTENANCE PERSONNEL	240	22	369	14.333	.101	14.599	29.033
OPERATING PERSONNEL	179	150	74	3.411	.264	.526	4.201
HEALTH PHYSICS PERSONNEL	77	21	94	5.379	.139	2.934	8.452
SUPERVISORY PERSONNEL	42	44	3	.547	.167	.000	.714
ENGINEERING PERSONNEL	53	54	27	.737	.240	.320	1.297
OTHERS	0	0	0	.000	.000	.000	.000

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Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>WASTE DISPOSAL</b>							
Total	114	9	10	.513	.026	.003	.542
MAINTENANCE PERSONNEL	42	0	1	.085	.000	.000	.085
OPERATING PERSONNEL	35	0	0	.152	.000	.000	.152
HEALTH PHYSICS PERSONNEL	33	5	3	.272	.005	.001	.278
SUPERVISORY PERSONNEL	3	2	0	.004	.021	.000	.025
ENGINEERING PERSONNEL	1	2	6	.000	.000	.002	.002
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>REFUELING</b>							
Total	131	30	64	6.989	.238	1.647	8.874
MAINTENANCE PERSONNEL	72	3	43	5.359	.016	1.128	6.503
OPERATING PERSONNEL	34	24	6	.797	.190	.175	1.162
HEALTH PHYSICS PERSONNEL	15	0	14	.343	.000	.337	.680
SUPERVISORY PERSONNEL	8	2	0	.442	.030	.000	.472
ENGINEERING PERSONNEL	2	1	1	.048	.002	.007	.057
OTHERS	0	0	0	.000	.000	.000	.000

Work Function	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
<b>SPECIAL MAINTENANCE</b>							
Total	123	36	105	.463	.029	.057	.549
MAINTENANCE PERSONNEL	67	3	104	.149	.003	.057	.209
OPERATING PERSONNEL	16	21	0	.219	.002	.000	.221
HEALTH PHYSICS PERSONNEL	35	2	1	.092	.000	.000	.092
SUPERVISORY PERSONNEL	4	7	0	.000	.022	.000	.022
ENGINEERING PERSONNEL	1	3	0	.003	.002	.000	.005
OTHERS	0	0	0	.000	.000	.000	.000

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**Man-rem Exposure - Work/Job Function Report**  
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**NORTH ANNA POWER STATION**  
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 Calendar Year 2000

Work Function	Number of Workers			Total Man-rem			Totals
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	
DESIGN CHANGES							
Total	22	11	54	.083	.035	2.003	2.121
MAINTENANCE PERSONNEL	15	2	50	.035	.001	1.892	1.928
OPERATING PERSONNEL	1	2	3	.000	.006	.111	.117
HEALTH PHYSICS PERSONNEL	2	1	0	.009	.005	.000	.014
SUPERVISORY PERSONNEL	0	2	0	.000	.007	.000	.007
ENGINEERING PERSONNEL	4	4	1	.039	.016	.000	.055
OTHERS	0	0	0	.000	.000	.000	.000
ALL WORK FUNCTIONS							
Total	1236	415	876	38.067	1.509	23.967	63.543
MAINTENANCE PERSONNEL	489	31	604	20.795	.125	18.651	39.571
OPERATING PERSONNEL	396	221	83	7.720	.502	.812	9.034
HEALTH PHYSICS PERSONNEL	190	30	126	6.908	.151	3.399	10.458
SUPERVISORY PERSONNEL	81	67	3	1.201	.454	.000	1.655
ENGINEERING PERSONNEL	80	66	60	1.443	.277	1.105	2.825
OTHERS	0	0	0	.000	.000	.000	.000

	Number of Workers			Totals
	Station Employees	Utility Employees	Contract Workers	
Total Individuals	607	307	646	1,560