VIRGINIA ELECTRIC AND POWER COMPANY RICHMOND, VIRGINIA 23261

February 28, 2000

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

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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, 1999 to December 31, 1999.

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

Very truly yours,

W. R. Matthews Site Vice President

Enclosure

Commitments made in this letter:

1. None

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

VIRGINIA POWER

ANNUAL EXPOSURE REPORT

January 1, 1999 - December 31, 1999

RECORDED ANNUAL WHOLE BODY EXPOSURE REPORT

NORTH ANNA POWER STATION

JANUARY 1, 1999 - DECEMBER 31, 1999

PREPARED BY: Who shows

Teresa G. Johnson

Supervisor

Exposure Control & Instrumentation

REVIEWED BY:

Erich W. Dreyer

Supervisor Health Physics

(Technical Services)

REVIEWED BY:

A.H. Stafførd

Superintendent

Radiological Protection

APPROVED BY:

William R. Matthews

Site Vice President

North Anna Power Station

FORWARD

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 1999

Work Function	N Station Employees	umber of Wo Utility Employees	Contract	Station Employees	otal Man-rem Utility Employees	Contract Workers	Totals
REACTOR OPERATIONS&S							
Total	164	18	12	2.756	.099	.012	2.867
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	35 86 14 25 4 0	0 9 0 9 0	5 2 5 0 0	.245 2.212 .198 .074 .027 .000	.000 .038 .000 .061 .000	.000 .001 .011 .000 .000	.245 2.251 .209 .135 .027 .000
Work Function	N Station Employees	umber of Wo Utility Employees	Contract	T Station Employees	otal Man-rem Utility Employees	Contract Workers	Totals
INSERVICE INSPECTION							
Total	54	18	44	1.758	.123	4.786	6.667
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	6 18 16 2 12 0	0 13 0 0 5 0	10 2 6 0 26 0	.000 .979 .013 .000 .766 .000	.000 .008 .000 .001 .114 .000	1.157 .233 .080 .000 3.316 .000	1.157 1.220 .093 .001 4.196
Work Function	N Station Employees	umber of Wol Utility Employees	kers Contract Workers	T Station Employees	otal Man-rem Utility Employees	Contract Workers	Totals
ROUTINE MAINTENANCE							
Total	628	387	646	39.604	1.263	29.438	70.305
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	259 190 69 40 70	17 224 16 51 79 0	433 67 104 9 32	23.773 6.106 7.492 1.493 .740 .000	.089 .446 .246 .285 .197 .000	22.783 1.004 5.251 .024 .376	46.645 7.556 12.989 1.802 1.313

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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 1999

Work Function	N Station Employees	umber of Wo Utility Employees	Contract	Station Employees	Fotal Man-rem Utility Employees	Contract Workers	Totals
WASTE DISPOSAL							
Total	122	2	5	.766	.003	.001	.770
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	42 49 27 4 0	1 1 0 0 0	1 0 4 0 0	.139 .215 .364 .048 .000	.000 .002 .000 .001 .000	.001 .000 .000 .000 .000	.140 .217 .364 .049 .000
Work Function	Number of Workers			Total Man-rem			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
REFUELING							
Total	113	28	59	10.403	.329	2.629	13.361
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	54 34 15 8 2 0	1 22 0 4 1	39 2 16 0 2 0	8.261 1.371 .492 .163 .116	.020 .198 .000 .105 .006	1.965 .000 .647 .000 .017 .000	10.246 1.569 1.139 .268 .139
Work Function	N Station Employees	umber of Wor Utility Employees	kers Contract Workers	3 Station Employees	otal Man-rem Utility Employees	Contract Workers	Totals
SPECIAL MAINTENANCE							
Total	143	50	132	.604	.074	.154	.832
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	68 17 50 5 3 0	4 33 3 5 5 0	122 8 1 0 1 0	.150 .283 .171 .000 .000	.003 .029 .000 .042 .000	.138 .014 .000 .000 .002 .000	.291 .326 .171 .042 .002

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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 1999

Work Function	Number of Worke		kers Total Man-rem				
	Station Employees	Utility Employees	Contract Workers	Station Employees	Utility Employees	Contract Workers	Totals
DESIGN CHANGES							
Total	0	0	2	.000	.000	.110	.110
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	0 0 0 0 0	0 0 0 0 0	2 0 0 0 0	.000 .000 .000 .000 .000	.000 .000 .000 .000 .000	.110 .000 .000 .000 .000	.110 .000 .000 .000 .000
ALL WORK FUNCTIONS							
Total	1224	503	900	55.891	1.891	37.130	94.912
MAINTENANCE PERSONNEL OPERATING PERSONNEL HEALTH PHYSICS PERSONNEL SUPERVISORY PERSONNEL ENGINEERING PERSONNEL OTHERS	464 394 191 84 91	23 302 19 69 90 0	612 81 136 9 61	32.568 11.166 8.730 1.778 1.649	.112 .721 .246 .495 .317	26.154 1.252 5.989 .024 3.711 .000	58.834 13.139 14.965 2.297 5.677

	Station Employees	Utility Employees	Contract Workers	Totals
Total Individuals	632	403	703	1,738