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Georgia Power

The Southern electric system

C. K. McCoy  
Vice President, Nuclear  
Vogtle Project

February 21, 1992

ELV-03475  
001213

Docket Nos. 50-424  
50-425


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

Gentlemen:

VOGTLE ELECTRIC GENERATING PLANT  
1991 ANNUAL REPORT - PART 1

In accordance with the applicable regulatory requirements, Georgia Power Company hereby submits Part 1 of the 1991 Annual Report of operating information. Part 2 of the 1991 Annual Report will be submitted by May 1, 1992.

Sincerely,

  
C. K. McCoy

CKM/JLL/gmb

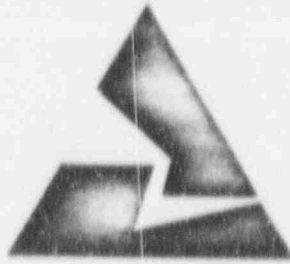
Enclosure: Annual Report - Part 1

xc: Georgia Power Company  
Mr. W. B. Shipman  
Mr. M. Sheibani  
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U. S. Nuclear Regulatory Commission  
Mr. S. D. Ebnetter, Regional Administrator  
Mr. D. S. Hood, Licensing Project Manager, NRR  
Mr. B. R. Bonser, Senior Resident Inspector, Vogtle

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VOGTLE ELECTRIC GENERATING PLANT  
GEORGIA POWER  
COMPANY

PLANT VOGTLE UNITS 1 & 2

1991

ANNUAL REPORT

- PART 1 -

DOCKET NUMBERS 50 - 424/425  
LICENSE NUMBERS NPF-68/81

VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
NRC DOCKETS 50-424/425  
OPERATING LICENSE NPF-68/81  
1991 ANNUAL REPORT  
PART 1

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I  
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
1991 ANNUAL REPORT  
PART I

INTRODUCTION

The Vogtle Electric Generating Plant Units 1 and 2 are powered by pressurized water reactors, each rated at 3411 megawatts thermal. It is located on the Savannah River in Burke County Georgia, at a site 4 miles southeast of Augusta. The Unit 1 operating license was initially received on January 16, 1987 and Commercial Operation started on May 31, 1987. Unit 1 is in its fourth fuel cycle. Unit 2 received its initial operating license on February 9, 1989, and began commercial operation on May 19, 1989. Unit 2 is operating in its second fuel cycle.

II  
 VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
 1991 ANNUAL REPORT - PART 1  
 TECHNICAL SPECIFICATION 6.8.1.2a  
 REPORT OF PERSONNEL EXPOSURE GREATER THAN 100 MREM/YR

WORK & JOB FUNCTION	# PERSONNEL (>100 MREM)			STATION	MAN-REM UTILITY	MAN-REM CONTRACT
	STATION	UTILITY	CONTRACT			
<hr/>						
Reactor Operations & Surv.						
Maint. & Construction	18	0	46	6.297	.000	17.105
Operations	8	0	1	2.619	.082	.428
Health Physics & Lab	4	0	38	2.175	.000	16.991
Supervisory & Office Staff	0	0	3	.017	.014	1.747
Engineering Staff	1	0	1	.447	.000	.627
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Routine Plant Maintenance						
Maint. & Construction	9	1	49	3.516	.213	17.731
Operations	23	0	1	.000	.000	.179
Health Physics & Lab	12	0	14	.000	.000	5.855
Supervisory & Office Staff	0	1	4	.161	.161	1.914
Engineering Staff	0	0	3	.000	.000	.906
<hr/>						
Inservice Inspection						
Maint. & Construction	19	0	51	5.833	.079	24.495
Operations	2	0	1	.715	.000	.207
Health Physics & Lab	0	0	5	.222	.000	1.847
Supervisory & Office Staff	1	0	9	.125	.014	2.220
Engineering Staff	1	0	5	.438	.000	1.007
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Special Plant Maintenance						
Maint. & Construction	32	1	239	13.808	.112	105.149
Operations	13	0	1	3.311	.020	.537
Health Physics & Lab	17	1	61	5.530	.174	26.235
Supervisory & Office Staff	6	0	15	3.929	.279	4.782
Engineering Staff	1	0	8	.585	.000	2.783
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Waste Processing						
Maint. & Construction	5	0	7	2.999	.000	4.114
Operations	0	0	0	.534	.000	.002
Health Physics & Lab	1	0	16	.625	.000	5.810
Supervisory & Office Staff	0	0	0	.017	.000	.336
Engineering Staff	0	0	0	.012	.000	.063
<hr/>						
Refueling						
Maint. & Construction	5	0	40	2.651	.000	16.847
Operations	4	0	0	2.040	.000	.002
Health Physics & Lab	13	0	61	5.025	.016	22.527
Supervisory & Office Staff	0	0	8	.030	.000	4.109
Engineering Staff	0	0	4	.042	.000	1.743

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 VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
 1991 ANNUAL REPORT - PART 1  
 TECHNICAL SPECIFICATION 6.8.1.2a  
REPORT OF PERSONNEL EXPOSURE GREATER THAN 100 MREM/YR

CONTINUED:

Totals						
Maint. & Construction	88	2	432	35.104	.404	185.442
Operations	50	0	4	13.935	.102	1.355
Health Physics & Lab	47	1	195	17.457	.190	79.265
Supervisory & Office Staff	7	1	39	4.237	.467	15.108
Engineering Staff	3	0	21	1.724	.000	7.129
<hr/>						
Grand Totals	195	4	691	72.457	1.163	288.299

Total radiation exposure is 362.475 REM which constitutes 100% of the site exposure for the year.

II  
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
1991 ANNUAL REPORT - PART 1  
TECHNICAL SPECIFICATION 6.8.1.2b  
REPORT OF PRIMARY COOLANT'S EXCESSIVE SPECIFIC ACTIVITY

There were no instances of Units 1 or 2 exceeding the dose equivalent iodine limits or the total specific activity limits, as specified in Technical Specifications, Section 3.4.8, during 1991.

II  
VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
1991 ANNUAL REPORT - PART 1  
TECHNICAL SPECIFICATION 6.8.1.2c  
REPORT OF LEAKAGES GREATER THAN OR EQUAL TO 0.005 MICROCURIES

As required by Technical Specifications Section 3.7.9, leak tests were performed on sealed sources with activity greater than 100 microcuries of beta and/or gamma, or 5 microcuries of alpha radiation. The test results revealed activities less than 0.005 microcuries of removable contamination.



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 1991 ANNUAL REPORT - PART 1  
 VOGTLE ELECTRICAL GENERATING PLANT - UNITS 1 & 2  
 10 CFR 20.407  
 ANNUAL PERSONNEL MONITORING REPORT

Estimated whole body exposure range (rems)	Number of individuals in each range
No measurable exposure	1227
Measurable exposure less than 0.1	509
0.1 to 0.25	310
0.25 to 0.5	294
0.5 to 0.75	156
0.75 to 1.0	53
1.0 to 2.0	35
2.0 to 3.0	0
3.0 to 4.0	0
4.0 to 5.0	0
5.0 to 6.0	0
6.0 to 7.0	0
7.0 to 8.0	0
8.0 to 9.0	0
9.0 to 10.0	0
10.0 to 11.0	0
11.0 to 12.0	0
12 +	0
<hr/> Total number of personnel monitored	<hr/> 2584

This report is submitted in accordance with paragraphs (a)(2) and (b) of 10 CFR 20.407.

Total radiation exposure of the above personnel is 362,475 REM which constitutes 100% of the site exposure for the year.