



VOGTLE ELECTRIC GENERATING PLANT  
GEORGIA POWER  
COMPANY

PLANT VOGTLE UNITS 1 & 2

1990

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  
1990 ANNUAL REPORT  
PART 1

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VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
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PART 1

INTRODUCTION

The Vogtle Electric Generating Plant Units 1 and 2 are powered by pressurized water reactors, each rated at 3411 megawatts thermal. These units are located on the Savannah River in Burke County Georgia, 34 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 third fuel cycle. Unit 2 received its initial operating license on February 9, 1989, and began Commercial Operation on May 20, 1989. Unit 2 is operating in its second fuel cycle.

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

WORK & JOB FUNCTION	# PERSONNEL (>100 MREM)			TOTAL		MAN-REM
	STATION UTILITY		CONTRACT	STATION UTILITY	CONTRACT	
<b>Reactor Operations &amp; Surveillance</b>						
Maintenance & Construction	58	0	74	24.024	.016	34.283
Operations	6	1	1	2.544	.266	.663
Health Physics & Lab	3	0	42	1.154	.000	17.773
Supervisory & Office Staff	4	0	10	.809	.000	4.028
Engineering Staff	3	0	4	.792	.002	2.420
<b>Routine Plant Maintenance</b>						
Maintenance & Construction	13	0	31	5.212	.016	12.415
Operations	21	0	1	5.386	.053	.135
Health Physics & Lab	15	1	46	4.646	.173	16.166
Supervisory & Office Staff	4	0	9	2.239	.100	2.479
Engineering Staff	0	0	4	.138	.002	1.136
<b>Inservice Inspection</b>						
Maintenance & Construction	16	0	58	7.238	.016	27.602
Operations	7	0	1	2.580	.000	.186
Health Physics & Lab	5	0	17	1.183	.000	6.580
Supervisory & Office Staff	2	1	3	.432	.423	1.320
Engineering Staff	5	0	1	.281	.002	.595
<b>Special Plant Maintenance</b>						
Maintenance & Construction	81	0	188	24.640	.016	81.116
Operations	18	0	0	4.584	.053	.021
Health Physics & Lab	22	0	46	9.550	.049	20.007
Supervisory & Office Staff	0	0	14	.250	.012	5.917
Engineering Staff	5	0	19	1.856	.002	8.495
<b>Waste Processing</b>						
Maintenance & Construction	9	0	17	3.495	.016	6.562
Operations	0	0	0	.668	.000	.128
Health Physics & Lab	6	0	21	1.859	.000	6.444
Supervisory & Office Staff	0	0	1	.042	.000	.514
Engineering Staff	0	0	1	.151	.002	.463
<b>Refueling</b>						
Maintenance & Construction	35	0	56	18.795	.016	22.339
Operations	17	0	0	5.671	.000	.091
Health Physics & Lab	15	0	69	8.199	.000	36.794
Supervisory & Office Staff	4	0	7	1.170	.000	2.523
Engineering Staff	1	0	8	.422	.002	3.402
<b>Totals</b>						
Maintenance & Construction	212	0	424	83.403	.095	184.218
Operations	67	1	3	21.433	.373	1.224
Health Physics & Lab	68	1	241	26.591	.222	103.767
Supervisory & Office Staff	14	1	44	4.936	.534	16.781
Engineering Staff	14	0	37	4.640	.010	16.510
<b>Grand Totals</b>						
	375	3	749	141.003	1.34	322.596

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VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
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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 1990.

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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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VOGTLE ELECTRIC 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 measureable exposure	1272
Measurable exposure less than 0.1	569
0.1 to 0.25	407
0.25 to 0.5	314
0.5 to 0.75	165
0.75 to 1.0	74
1.0 to 2.0	71
2.0 to 3.0	2
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
Total number of personnel monitored	2874

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