

VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2  
NRC DOCKETS 50-424/425  
OPERATING LICENSE NPF-68/81  
1997 ANNUAL REPORT - PART 1

TABLE OF CONTENTS

	<u>PAGE</u>
I. INTRODUCTION	1
II. TECHNICAL SPECIFICATION 5.6.1 - REPORT OF PERSONNEL EXPOSURE GREATER THAN 100 MREM/YR.	2

**I**  
**VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2**  
**1997 ANNUAL REPORT - PART 1**  
**INTRODUCTION**

The Vogtle Electric Generating Plant Units 1 and 2 are powered by pressurized water reactors, each rated at 3565 megawatts thermal. It is located on the Savannah River in Burke County Georgia, at a site 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 eight fuel cycle.

Unit 2 received its initial operating license on February 9, 1989, and began commercial operation on May 19, 1989. Unit 2 is currently in its sixth fuel cycle.

**II**  
**VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2**  
**1997 ANNUAL REPORT - PART 1**

**TECHNICAL SPECIFICATION 5.6.1**  
**REPORT OF PERSONNEL EXPOSURE GREATER THAN 100 MREM/YR**

WORK & JOB FUNCTION	# PERSONNEL (>100 MREM)			TOTAL MAN-REM		
	STATION	UTILITY	CONTRACT	STATION	UTILITY	CONTRACT
Reactor Operations & Surv.						
Maint. & Construction	3	0	0	0.848	0.018	0.254
Operations	19	1	0	5.244	0.103	0.020
Health Physics & Lab	9	3	12	2.686	0.722	2.736
Supervisory & Office Staff	2	0	0	0.771	0.026	0.369
Engineering Staff	0	0	0	0.220	0.015	0.171
Routine Plant Maintenance						
Maint. & Construction	10	0	10	4.373	0.073	4.101
Operations	8	0	0	3.334	0.001	0.004
Health Physics & Lab	45	1	3	11.950	0.167	1.646
Supervisory & Office Staff	0	0	0	0.208	0.006	0.276
Engineering Staff	0	0	0	0.396	0.020	0.189
Inservice Inspection						
Maint. & Construction	1	3	30	0.107	0.740	12.921
Operations	3	0	1	0.618	0.000	0.182
Health Physics & Lab	0	0	0	0.001	0.000	0.001
Supervisory & Office Staff	1	0	6	0.183	0.061	1.741
Engineering Staff	0	0	4	0.088	0.024	0.640
Special Plant Maintenance *						
Maint. & Construction	54	9	147	17.022	2.441	44.726
Operations	10	1	0	3.579	0.396	0.029
Health Physics & Lab	2	2	3	1.388	0.763	1.106
Supervisory & Office Staff	1	0	7	0.661	0.011	2.381
Engineering Staff	2	0	4	1.029	0.000	1.261

\* - Refers to special maintenance not usually performed during normal operations. Most major maintenance is associated with outages. Examples of special maintenance performed in 1997 include: reactor coolant pump seal and pump replacement, reactor coolant pump motor work, steam generator tube sheet repair and tube plugging, various design changes, control rod guide tube split pin replacement, and major outage related maintenance.



**II (CONTINUED)**  
**VOGTLE ELECTRIC GENERATING PLANT - UNITS 1 & 2**  
**1997 ANNUAL REPORT - PART 1**

**TECHNICAL SPECIFICATION 5.6.1**  
**REPORT OF PERSONNEL EXPOSURE GREATER THAN 100 MREM/YR**

WORK & JOB FUNCTION	# PERSONNEL (>100 MREM)			TOTAL MAN-REM		
	STATION	UTILITY	CONTRACT	STATION	UTILITY	CONTRACT
Waste Processing						
Maint. & Construction	0	0	0	0.106	0.003	0.167
Operations	3	0	0	1.756	0.000	0.038
Health Physics & Lab	6	3	26	2.511	1.169	8.008
Supervisory & Office Staff	0	0	0	0.014	0.000	0.004
Engineering Staff	0	0	0	0.000	0.000	0.000
Refueling						
Maint. & Construction	8	0	14	2.376	0.046	4.542
Operations	2	0	1	0.675	0.000	0.095
Health Physics & Lab	0	0	0	0.102	0.000	0.158
Supervisory & Office Staff	0	0	2	0.113	0.000	0.576
Engineering Staff	0	0	0	0.094	0.000	0.092
Totals						
Maint. & Construction	76	12	201	24.832	3.321	66.711
Operations	45	2	2	15.206	0.500	0.368
Health Physics & Lab	62	9	44	18.638	2.821	13.655
Supervisory & Office Staff	4	0	15	1.950	0.104	5.347
Engineering Staff	2	0	8	1.827	0.059	2.353
Grand Totals	189	23	270	62.453	6.805	88.434

Total radiation exposure is 157.692 Rem (78.846 Rem per unit) which constitutes 100% of the site exposure for the year.