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U. S. Nuclear Regulatory Commission
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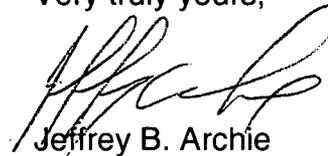
Dear Sir / Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION
DOCKET NO. 50-395
OPERATING LICENSE NO. NPF-12
ANNUAL OPERATING REPORT

Enclosed is the 2007 Annual Operating Report for the South Carolina Electric & Gas Company Virgil C. Summer Nuclear Station Unit No. 1. This report is being submitted in accordance with Technical Specifications 6.9.1.4 and Regulatory Guide 1.16.

If there are any questions, please call at your convenience.

Very truly yours,



Jeffrey B. Archie

SBR/JBA/jw
Attachment

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VIRGIL C. SUMMER NUCLEAR STATION



2007 ANNUAL OPERATING REPORT

PREFACE

The 2007 Annual Operating Report for the Virgil C. Summer Nuclear Station is hereby submitted in accordance with Technical Specifications 6.9.1.4 and Regulatory Guide 1.16 under Docket Number 50/395 and Facility Operating License NPF-12.

TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	Introduction	4
2.0	Operational Data	4
3.0	Operating Summary	4
4.0	Exposures	5
5.0	Failed Fuel	5

ATTACHMENTS

- I. 2007 Man-Rem Report

ANNUAL OPERATING REPORT

1.0 INTRODUCTION

The Virgil C. Summer Nuclear Station (VCSNS) utilizes a pressurized water reactor rated at 2900 MWT. The maximum dependable capacity is 966 Mwe.

The station is located approximately 26 miles northwest of Columbia, South Carolina.

2.0 OPERATIONAL DATA

For the reporting period of January 1 through December 31, 2007, the station operated at a capacity factor of 100.2% (using maximum dependable capacity) and a unit availability of 99.5 %. The reactor was critical for a total of 8727.5 hours, the generator remained on line 8719.1 hours, and the total gross electrical energy generated for 2007 was 8,810,490 MWH.

3.0 OPERATING SUMMARY

The Virgil C. Summer Nuclear Station (VCSNS) Unit No.1 operated at 100% power from January 1st, through February 2nd. On February 2nd, power was reduced to 95% to investigate and repair a leak at the inboard mechanical seal of the "D" Feedwater Booster Pump. On February 5th, while placing the "D" Feedwater Booster Pump back in service, the reactor was manually tripped when a large steam leak developed at the minimum flow orifice flange connection on the pump recirculation line. Reactor power was restored to 100% power at 0600 hours on February 9th.

VCSNS operated at 100% power from February 9th to April 27th. On April 27th, power was reduced for turbine valve testing. On April 28th, power was further reduced to 95% to replace the "D" Feedwater Booster Pump outboard seal. Reactor power was restored to 100% at 2020 hours on May 2nd.

VCSNS operated at 100% power from May 2nd to June 22nd. On June 22nd, power was reduced for turbine valve testing. On June 23rd, power was further reduced to 95% to repair a steam leak on the "A" Feedwater Booster Pump vent valve and to replace the pump mechanical seals. Reactor power was restored to 100% at 0215 hours on June 29th.

VCSNS operated at 100% power from June 29th to November 16th. On November 16th power was reduced to 88% for turbine valve testing and troubleshooting the "B" Main Feedwater Pump. Reactor power was restored to 100% at 0548 on November 17th. The plant operated at 100% power for the remainder of 2007.

Forced Power Reduction >20% Exceeding 4 Hours

On February 2nd reactor power was reduced to approximately 95% to investigate and repair a leak at the inboard mechanical seal of the "D" Feedwater Booster Pump. On February 5th, while placing the "D" Feedwater Booster Pump back in service, the reactor was manually tripped when a large steam leak developed at the minimum flow orifice flange connection on the pump recirculation line.. This outage did not result in any single release of radioactivity or single radiation exposure that accounted for more than 10% of the allowable annual values. The duration of the down power was approximately 40.9 hours.

4.0 EXPOSURES

Attachment I lists the number of station, utility, and other personnel (including contract personnel) receiving exposures greater than 100 mrem/year and their associated man-rem exposure according to work and job function. The exposures reported are estimated doses based on electronic dosimeters.

5.0 FAILED FUEL

VCSNS did not have indications of failed fuel in 2006.

The reactor coolant system specific activity did not exceed the 1.0 microcuries per gram dose equivalent iodine-131 specific activity or the 100/E microcuries per gram limits of Technical Specification 3.4.8, for this reporting period. VCSNS imposed an administrative limit for reactor coolant system specific activity of 0.059 microcuries per gram dose equivalent iodine-131. This limit was not exceeded during 2007.

ATTACHMENT I

TO

2007 ANNUAL REPORT

SOUTH CAROLINA ELECTRIC AND GAS CO. V.C. SUMMER NUCLEAR STATION
 PEOPLE COMPUTERIZED EXPOSURE NUCLEAR TRACKING SYSTEM PAGE 1
 CNTRPT_PERG116R 14-JAN-2008 08:29

PERSONNEL AND MAN-REM BY WORK AND DUTY FUNCTION
 FINAL END OF YEAR REPORT FOR 2007

WORK AND JOB FUNCTION	NUMBER OF PERSONNEL OVER 100mREM			TOTAL MAN-REM		
	STATION WORKERS	UTILITY WORKERS	CONTRACT WORKERS	STATION WORKERS	UTILITY WORKERS	CONTRACT WORKERS
ROUTINE MAINTENANCE						
MAINTENANCE PERSONNEL	3	0	2	1.151	0.003	1.156
OPERATIONS PERSONNEL	0	0	1	0.230	0.000	0.295
HEALTH PHYSICS PERSONNEL	3	0	0	0.815	0.000	0.159
SUPERVISORY PERSONNEL	0	0	0	0.004	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.021	0.000	0.000
SPECIAL MAINTENANCE						
MAINTENANCE PERSONNEL	0	0	0	0.000	0.000	0.000
OPERATIONS PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.000	0.000	0.000
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.000	0.000
REACTOR OPERATIONS & SURVEILLANCE						
MAINTENANCE PERSONNEL	0	0	0	0.144	0.000	0.232
OPERATIONS PERSONNEL	0	0	0	0.068	0.000	0.024
HEALTH PHYSICS PERSONNEL	0	0	0	0.112	0.000	0.015
SUPERVISORY PERSONNEL	0	0	0	0.006	0.000	0.001
ENGINEERING PERSONNEL	0	0	0	0.029	0.000	0.002
WASTE PROCESSING						
MAINTENANCE PERSONNEL	0	0	0	0.013	0.000	0.013
OPERATIONS PERSONNEL	0	0	0	0.000	0.000	0.016
HEALTH PHYSICS PERSONNEL	1	0	0	0.284	0.000	0.078
SUPERVISORY PERSONNEL	0	0	0	0.021	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.000	0.000
IN-SERVICE INSPECTION						
MAINTENANCE PERSONNEL	0	0	0	0.000	0.000	0.000
OPERATIONS PERSONNEL	0	0	0	0.002	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.000	0.000	0.000
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.000	0.000
REFUELING						
MAINTENANCE PERSONNEL	0	0	0	0.000	0.000	0.000
OPERATIONS PERSONNEL	0	0	0	0.000	0.000	0.000
HEALTH PHYSICS PERSONNEL	0	0	0	0.000	0.000	0.000
SUPERVISORY PERSONNEL	0	0	0	0.000	0.000	0.000
ENGINEERING PERSONNEL	0	0	0	0.000	0.000	0.000
TOTALS						
MAINTENANCE PERSONNEL	3	0	2	1.308	0.003	1.401
OPERATIONS PERSONNEL	0	0	1	0.300	0.000	0.335
HEALTH PHYSICS PERSONNEL	4	0	0	1.211	0.000	0.252
SUPERVISORY PERSONNEL	0	0	0	0.031	0.000	0.001
ENGINEERING PERSONNEL	0	0	0	0.050	0.000	0.002
GRAND TOTAL	7	0	3	2.900	0.003	1.991