

Thomas D. Gatlin
Vice President, Nuclear Operations
803.345.4342



March 31, 2014

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

Dear Sir/Madam:

Subject: VIRGIL C. SUMMER NUCLEAR STATION UNIT 1
DOCKET NO. 50-395
OPERATING LICENSE NO. NPF-12
ANNUAL OPERATING REPORT

Enclosed is the 2013 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 Specification 6.9.1.4 and Regulatory Guide 1.16.

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

Very truly yours,

A handwritten signature in blue ink, appearing to read "Tom Gatlin", enclosed in a rectangular box.

Thomas D. Gatlin

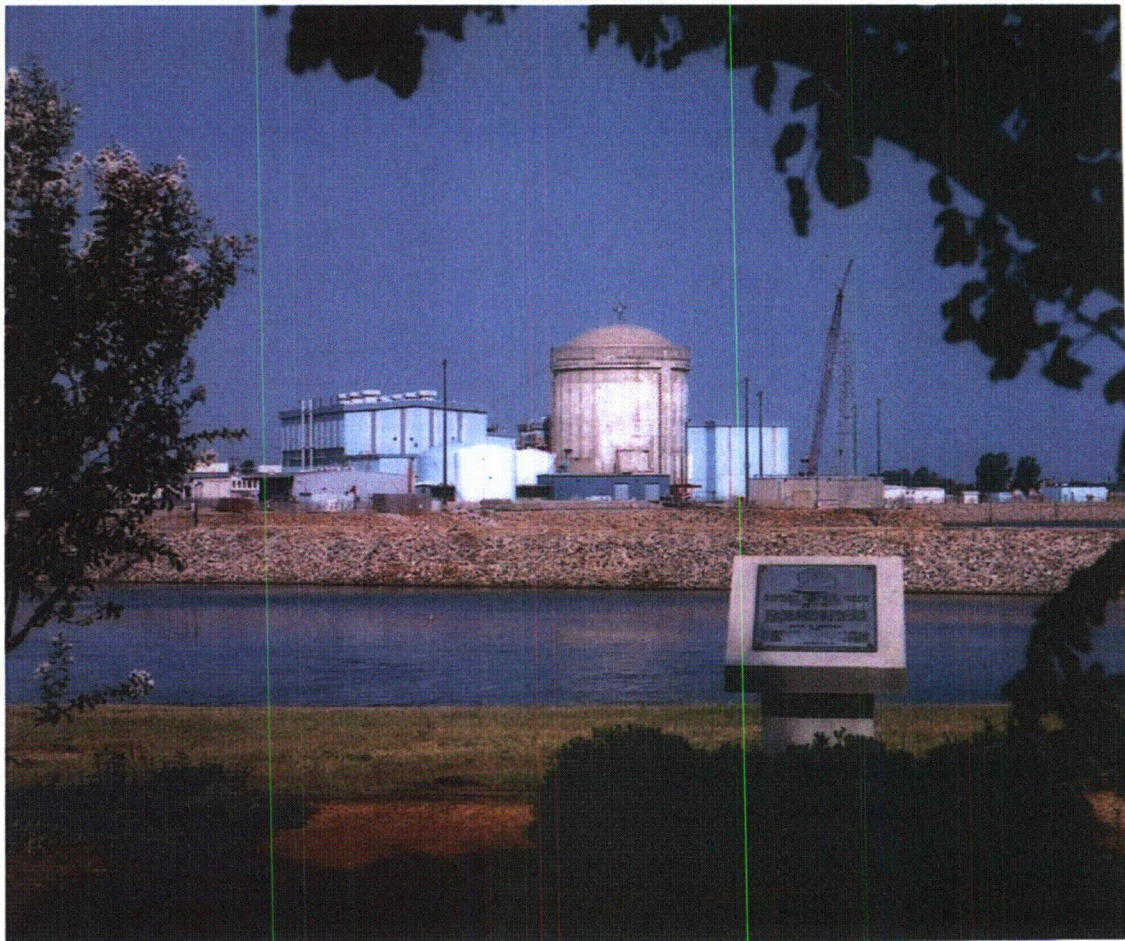
SBR/TDG/ts
Attachment

c: K. B. Marsh
S. A. Byrne
J. B. Archie
N. S. Carns
J. H. Hamilton
J. W. Williams
W. M. Cherry
V. M. McCree
S. A. Williams
REIRS Project Manager

M. L. Thomas
K. M. Sutton
J. C. Mellette
C. Stewart (ANI)
Marsh USA, Inc.
NRC Resident Inspector
NSRC
RTS (LTD 292)
File (818.02-10, RR 8225)
PRSF (RC-14-0053)

A001
NRR

VIRGIL C. SUMMER NUCLEAR STATION UNIT 1



2013 ANNUAL OPERATING REPORT

PREFACE

The 2013 Annual Operating Report for the Virgil C. Summer Nuclear Station Unit 1 is hereby submitted in accordance with Technical Specification 6.9.1.4 and Regulatory Guide 1.16 under Docket Number 50/395 and Facility Operating License NPF-12.

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- I. 2013 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, 2013, the station operated at a capacity factor of 98.9% (using maximum dependable capacity) and a unit availability of 97.0%. The reactor was critical for a total of 8519 hours, the generator remained on line 8501.4 hours and the total gross electrical energy generated for 2013 was 8,694,090 MWH.

3.0 OPERATING SUMMARY

The Virgil C. Summer Nuclear Station (VCSNS) Unit No.1 operated at 100% power from January 1st through January 31st. On January 31st power was reduced to 99% to support instrument calibration and testing of the Nuclear Steam Supply System (NSSS). Power was restored to 100% on February 1st.

VCSNS operated at 100% power from February 1st to February 28th. On February 28th power was reduced to approximately 99% to support instrument calibration and testing of the NSSS. Power was restored to 100% on February 28th.

VCSNS operated at 100% power from February 28th to March 22nd. On March 22nd reactor power reduction began in preparation for a maintenance outage to replace the "C" reactor coolant pump mechanical seal assembly. The main generator was opened on March 23rd. The main generator breaker was closed on April 2nd. Power was restored to 100% on April 7th.

VCSNS operated at 100% power from April 7th to June 28th. On June 28th power was reduced to approximately 90% to support main turbine control valve testing. Power was restored to 100% on June 29th.

VCSNS operated at 100% power from June 29th to September 27th. On September 27th power was reduced to approximately 90% to support main turbine control valve testing. Reactor power was restored to 100% on September 28th.

VCSNS operated at 100% power from September 28th to December 9th. On December 9th power was reduced to approximately 99% during the performance of steam generator steam pressure transmitter calibrations. Reactor power was restored to 100% on December 10th. The plant operated at 100% power for the remainder of 2013.

Power Reduction >20% Exceeding 4 Hours

On March 23rd, the plant was taken offline to replace the "C" reactor coolant pump mechanical seal assembly. The main generator breaker was opened on March 23rd and the outage lasted through April 2nd. Reactor power was restored to 100% on April 7th. 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 total outage duration was 258.59 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 any indications of failed fuel in 2013.

ATTACHMENT I

TO

2013 ANNUAL REPORT

South Carolina Electric & Gas Company V. C. Summer Nuclear Station

Personnel and Man-Rem by Work and Duty Function
Regulatory Guide 1.16 Annual Report for 2013

Work and Job Function	Number of Personnel Over 100 mRem			Total Man-Rem		
	Station Workers	Utility Workers	Contract Workers	Station Workers	Utility Workers	Contract Workers
Inservice Maintenance						
Engineering Personnel	0	0	0	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0.000	0.000	0.000
Maintenance Personnel	0	0	0	0.000	0.000	0.000
Operations Personnel	0	0	0	0.000	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Reactor Operations & Surveillance						
Engineering Personnel	0	0	0	0.086	0.000	0.021
Health Physics Personnel	0	0	0	0.593	0.000	0.020
Maintenance Personnel	0	0	0	0.480	0.000	0.204
Operations Personnel	0	0	0	0.759	0.000	0.117
Supervisory Personnel	0	0	0	0.009	0.000	0.007
Refueling						
Engineering Personnel	0	0	0	0.000	0.000	0.000
Health Physics Personnel	0	0	0	0.000	0.000	0.000
Maintenance Personnel	0	0	0	0.000	0.000	0.000
Operations Personnel	0	0	0	0.000	0.000	0.000
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Routine Maintenance						
Engineering Personnel	0	0	0	0.041	0.000	0.038
Health Physics Personnel	0	0	0	0.184	0.000	0.005
Maintenance Personnel	0	0	0	0.607	0.000	0.758
Operations Personnel	0	0	0	0.567	0.000	0.215
Supervisory Personnel	0	0	0	0.007	0.000	0.016
Special Maintenance						
Engineering Personnel	0	0	0	0.037	0.000	0.000
Health Physics Personnel	0	0	0	0.031	0.000	0.000
Maintenance Personnel	2	0	0	0.744	0.000	0.078
Operations Personnel	0	0	0	0.079	0.000	0.005
Supervisory Personnel	0	0	0	0.000	0.000	0.000
Waste Processing						
Engineering Personnel	0	0	0	0.000	0.000	0.006
Health Physics Personnel	1	0	0	0.458	0.000	0.000
Maintenance Personnel	0	0	0	0.003	0.000	0.010
Operations Personnel	1	0	0	0.104	0.000	0.000
Supervisory Personnel	0	0	0	0.016	0.000	0.000
Total						
Engineering Personnel	0	0	0	0.164	0.000	0.065
Health Physics Personnel	1	0	0	1.265	0.000	0.025
Maintenance Personnel	2	0	0	1.834	0.000	1.049
Operations Personnel	1	0	0	1.509	0.000	0.337
Supervisory Personnel	0	0	0	0.032	0.000	0.022
Grand Total	4	0	0	4.803	0.000	1.498