V. C. Summer Nuclear Station
Bradham Blvd & Hwy 215, Jenkinsville, SC 29065
Mailing Address:
P.O. Box 88, Jenkinsville, SC 29065
DominionEnergy.com

March 31, 2020

ATTN: Document Control Desk
US Nuclear Regulatory Commission
Washington, D.C. 20555-001

Serial No. 20-116
LIC/TS/R0
Docket No. 50-395
License No. NPF-12

DOMINION ENERGY SOUTH CAROLINA, INC.
VIRGIL C. SUMMER NUCLEAR STATION UNIT 1
DOCKET NO. 50-395
OPERATING LICENSE NO. NPF-12
ANNUAL OPERATING REPORT

Enclosed is the 2019 Annual Operating Report for the Dominion Energy South Carolina, Inc. Virgil C. Summer Nuclear Station Unit No. 1. This report is being submitted in accordance with Technical Specification 6.9.1.4.

If there are any questions, please call Tracey Stewart at (803) 931-5663.

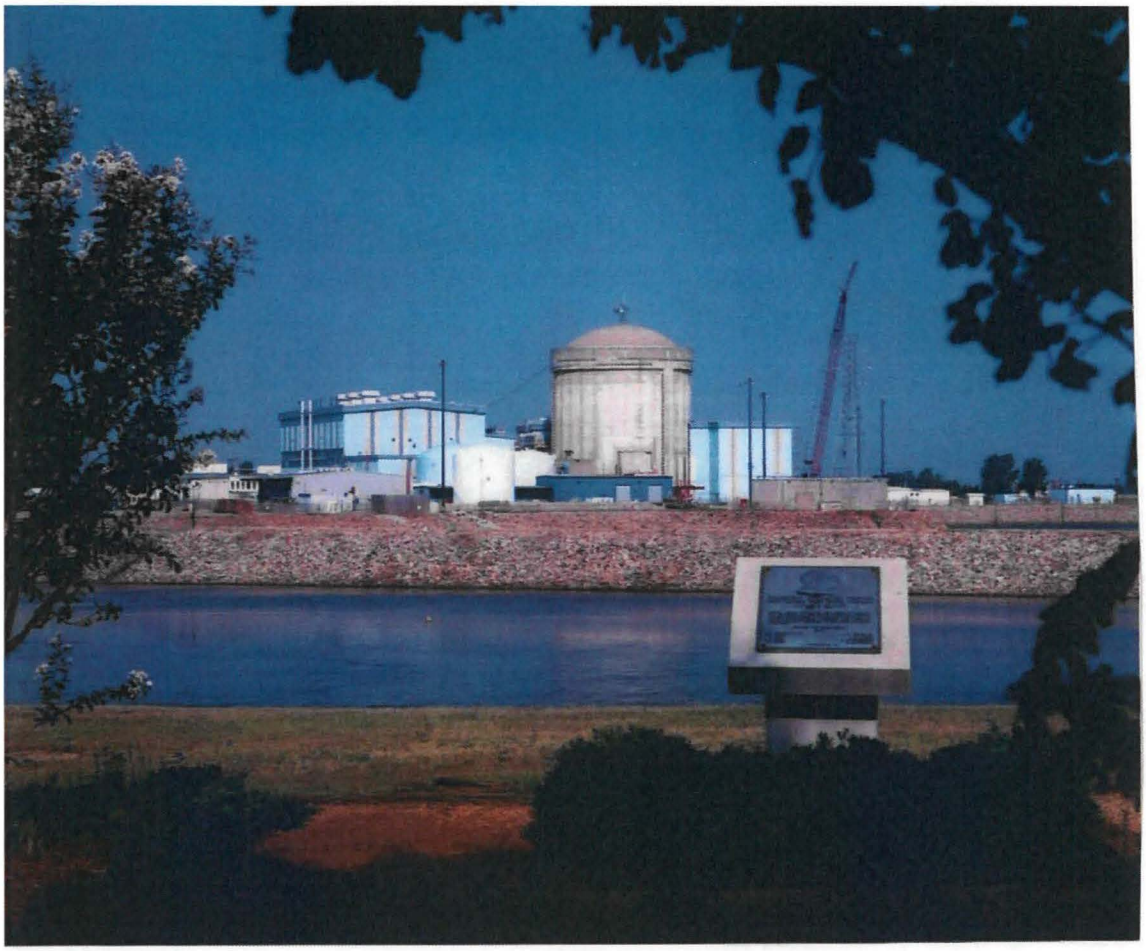
Sincerely,

George A. Lippard
Site Vice President
V. C. Summer Nuclear Station

w/o enclosure unless noted

cc: G. J. Lindamood – Santee Cooper
L. Dudes – NRC
S. A. Williams – NRC
M. L. Thomas - NRC
NRC Resident Inspector
Marsh USA
C. Logan (ANI)
REIRS Project Manager

VIRGIL C. SUMMER NUCLEAR STATION UNIT 1



2019 ANNUAL OPERATING REPORT

PREFACE

The 2019 Annual Operating Report for the Virgil C. Summer Nuclear Station Unit 1 is hereby submitted in accordance with Technical Specification 6.9.1.4 under Docket Number 50-395 and Facility Operating License NPF-12.

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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, 2019, the station operated at a capacity factor of 97.5% (using maximum dependable capacity) and a unit availability of 95.9% The reactor was critical for a total of 8428.2 hours, the generator remained on line 8402.3 hours and the total gross electrical energy generated for 2019 was 8,581,185 MWH.

3.0 OPERATING SUMMARY

VCSNS Unit No.1 operated at 100% power from January 1st through March 8th. On March 8th power was reduced to 92% to support quarterly Main Turbine Valve testing and maintenance on the Main Feedwater Booster Pumper 'D' Motor. Reactor power was restored to 100% power on March 10th.

VCSNS Unit 1 operated at 100% power from March 10th to March 18th. On March 18th power was reduced to 94% to support maintenance on the Main Feedwater Booster Pump 'D' motor. Reactor power was restored to 100% on March 21st.

VCSNS Unit 1 operated at 100% from March 21st to June 3rd. On June 3rd power was reduced to 91% to support quarterly Main Turbine Valve testing. Reactor power was restored to 100% on June 3rd.

VCSNS Unit 1 operated at 100% from June 3rd to September 30th. On September 30th power was reduced to 90% to support quarterly Main Turbine Valve testing. Reactor power was restored to 100% on September 30th.

VCSNS Unit 1 operated at 100% from September 30th to November 7th. On November 7th the plant was shutdown to perform repairs to two failed Reactor Building Cooling Units and repair a Reactor Coolant System leak. The main generator breaker was closed on November 20th at 13:16:57. Reactor power was restored to 100% on November 22nd.

VCSNS Unit 1 operated at 100% from November 22nd to November 28th. On November 28th the plant was shutdown to perform repairs on a piece of damaged

instrumentation tubing on a Steam Generator level transmitter. The main generator breaker was closed on November 30th at 03:28:27. Reactor power was restored to 100% on December 1st.

The unit remained at 100% power for the remainder of 2019.

Forced Power Reduction > 20% Exceeding 4 Hours

On November 7th the plant was taken offline to perform repairs to two failed Reactor Building Cooling Units and repair a Reactor Coolant System leak. The main generator breaker was opened on November 7th, and the outage lasted through November 20th. Reactor power was restored to 100% on November 22nd. The total outage duration was 321.68 hours

On November 28th the plant was taken offline to perform repairs on a piece of damaged instrumentation tubing on a Steam Generator level transmitter. The main generator breaker was opened on November 28th, and the outage lasted through November 30th. Reactor power was restored to 100% on December 1st. The total outage duration was 36.02 hours.

4.0 FAILED FUEL

VCSNS did not have any indications of failed fuel in 2019.