



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200  
ATLANTA, GEORGIA 30303-1200

February 9, 2023

Jamie Coleman  
Regulatory Affairs Director  
Southern Nuclear Company  
7825 River Road, BIN 63031  
Waynesboro, GA 30830

**SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNIT 3 – NRC INITIAL TEST  
PROGRAM AND OPERATIONAL PROGRAMS INTEGRATED INSPECTION  
REPORT 05200025/2022008**

Dear Ms. Coleman:

On December 31, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Vogtle Electric Generating Plant, Unit 3. The enclosed inspection report documents the inspection results, which the inspectors discussed on January 25, 2023, with Mr. Glen Chick, Vogtle Electric Generating Plant, Units 3 & 4 Executive Vice President, and other members of your staff.


The inspection examined a sample of startup testing activities conducted under your Combined License (COL) as it relates to safety and compliance with the Commission's rules and regulations and with the conditions of these documents. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel.

Based on the results of this inspection, no findings of significance were identified.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any), will be made available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system ADAMS. ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Should you have any questions concerning this letter, please contact us.

Sincerely,

 Signed by Davis, Bradley  
on 02/09/23

Bradley J. Davis, Chief  
Construction Inspection Branch 2  
Division of Construction Oversight

Docket Nos.: 5200025

License Nos: NPF-91

Enclosure: NRC Inspection Report (IR) 05200025/2022008  
w/attachment: Supplemental Information  
cc w/ encl: Distribution via LISTSERV

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT, UNIT 3 – NRC INITIAL TEST PROGRAM AND OPERATIONAL PROGRAMS INTEGRATED INSPECTION REPORT 05200025/2022008 – DATED FEBRUARY 9, 2023

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OFFICE	RII/DCO/CIB2	RII/DCO/CIB2	RII/DCO/CIB2	RII/DCO/CIB2	
NAME	J. Eargle	J. Parent	C. Even	B. Davis	
DATE	1/25/2023	1/18/2023	2/2/2023	2/9/2023	

**U.S. NUCLEAR REGULATORY COMMISSION  
Region II**

Docket Numbers: 5200025

License Numbers: NPF-91

Report Numbers: 05200025/2022008

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Unit 3 Combined License

Location: Waynesboro, GA

Inspection Dates: October 1, 2022, through December 31, 2022

Inspectors: J. Eargle, Senior Resident Inspector - Testing, Division of  
Construction Oversight (DCO)  
J. Parent, Resident Inspector, DCO  
B. Griman, Resident Inspector, DCO  
S. Egli, Sr. Construction Inspector, DCO  
C. Even, Sr. Construction Inspector, DCO

Approved by: Bradley J. Davis, Chief  
Construction Inspection Branch 2  
Division of Construction Oversight

## **SUMMARY OF FINDINGS**

Inspection Report (IR) 05200025/2022008; October 1, 2022, through December 31, 2022; Vogtle Unit 3 Combined License, initial test program and operational programs integrated inspection report.

This report covers a 3-month period of announced inspections of startup testing and operational programs inspections by resident and regional inspectors. The significance of most findings is indicated by their color (Green, White, Yellow, or Red), using Inspection Manual Chapter (IMC) 0609, "Significance Determination Process." Cross-cutting aspects are determined using IMC 0310, "Aspects Withing the Cross-Cutting Areas." All violations of NRC requirements are dispositioned in accordance with the NRC's Enforcement Policy. The NRC's program for oversight of AP1000 start-up activities is described in IMC 2514, "AP1000 Reactor Inspection Program – Startup Testing Phase."

### **A. NRC-Identified and Self Revealed Findings**

None

### **B. Licensee-Identified Violations**

None

## REPORT DETAILS

### Summary of Plant Testing Status

During this report period for Unit 3, the licensee completed component and preoperational testing to support system turnover to operations. Surveillance testing was completed to meet Technical Specification MODE requirements. Initial fuel loading and various precritical tests were also completed as part of the initial startup test program.

### **3. OPERATIONAL READINESS**

#### IMC 2514, AP1000 Reactor Inspection Program – Startup Testing Phase

##### 3T01 Initial Test Program (Startup)

- Inspection Procedure (IP) 72304, Attachment 8 – Initial Fuel Loading

##### a. Inspection Scope

The inspectors used appropriate portions of the IP to observe the licensee's performance of the following procedure for meeting the prerequisites for Unit 3 to enter MODE 6 and perform the initial fuel load. The inspectors observed the conduct of these procedures to verify if they satisfied the applicable quality and technical requirements of the Updated Final Safety Analysis Report (UFSAR) and the Technical Specifications.

- 3-GOP-301, Mode 6 Checklist, Version (Ver.) J=0.9
- 3-GOP-305, Refueling Mode 6, Ver. H=0.7
- 3-GEN-ITPS-601, Initial Fuel Load Startup Test Procedure, Ver. 4.1

The inspectors used appropriate portions of the IP to review the licensee's test results of the following procedures for initial fuel load. The inspectors reviewed the test results to verify if they satisfied the applicable quality and technical requirements of the UFSAR and the Technical Specifications.

- 3-GOP-301, Attachment 24, Initial Fuel Loading Mode 6 Entry Checklist, Ver. K=0.10
- B-103-OPS-001, Checklist 3, Unit 3 Mode Change Checklist – Defueled to Mode 6 (Refueling), Ver. 1.3
- NMP-RE-007-F03, Vogtle 3&4 – Core Verification Signoff, Ver. 1
- Unit 3 Core, Cycle 1 Core Map, 10/04/2022

##### b. Findings

No findings were identified.

3T02 Initial Test Program (Startup)

- IP 72304, Attachment 18 – Remote Shutdown Work Station

a. Inspection Scope

The inspectors used appropriate portions of the IP to observe the licensee's performance of the following procedures for demonstrating that the plant can be safely cooled down from Hot Standby (MODE 3) to Cold Shutdown (MODE 5) condition from outside the MCR. The inspectors observed the conduct of these procedures to verify if they satisfied the applicable quality and technical requirements of the UFSAR and the Technical Specifications.

- 3-GEN-ITPS-640, Remote Shutdown Workstation Startup Test Procedure, Ver. 3.0
- 3-GEN-ITPS-606, Post Fuel Load Precritical Test Sequence Startup Test Procedure, Ver. 4.0
- 3-RNS-SOP-001, Normal Residual Heat Removal System, Ver. 6.0

b. Findings

No findings were identified.

**4. OTHER INSPECTION RESULTS**

4OA6 Meetings, Including Exit

.1 Exit Meeting.

On January 25, 2023, the inspectors presented the inspection results to Mr. Glen Chick, Vogtle Electric Generating Plant, Units 3 & 4 Executive Vice President, and other licensee and contractor staff members. Proprietary information was reviewed during the inspection period but was not included in the inspection report.

## **SUPPLEMENTAL INFORMATION**

### **KEY POINTS OF CONTACT**

#### **Licenses and Contractor Personnel**

S. Briggs, Testing and Turnover Director  
A. Nix, ITP Director  
E. Loehlein, Operations Director  
J. Coleman, Regulatory Affairs Director  
R. Nicoletto, NI Manager  
J. Hartman, Shift Operations Manager  
D. Trafford, Operations Support Manager  
C. Parkes, Operations Services Manager  
S. Leighty, Regulatory Affairs Manager  
W. Garrett, Licensing Manager  
C. Houseal, Startup Manager  
J. Olsen, NI Supervisor  
F. Bonilla, Startup  
M. Lindquist, Startup  
K. Middlebrooks, Startup  
P. Miner, Startup  
J. Abshire, Startup  
J. Andino Valle, Startup  
M. Easter, Startup

### **LIST OF ITEMS OPENED, CLOSED, AND DISCUSSED**

<u>Item Number</u>	<u>Type</u>	<u>Status</u>	<u>Description</u>
None			

### **LIST OF ACRONYMS**

COL	Combined License
DCO	Division of Construction Oversight
IMC	inspection manual chapter
IP	inspection procedure
IR	inspection report
NRC	U.S. Nuclear Regulatory Commission
PARS	publicly available records
UFSAR	Updated Final Safety Analysis Report
Ver	version