



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION II  
245 PEACHTREE CENTER AVENUE NE, SUITE 1200  
ATLANTA, GEORGIA 30303-1257

June 27, 2013

Mr. Tom E. Tynan  
Vice President  
Southern Nuclear Operating Company, Inc.  
Vogtle Electric Generating Plant  
7821 River Road  
Waynesboro, GA 30830

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT – REACTOR AND SENIOR  
REACTOR OPERATOR INITIAL EXAMINATIONS 05000424/2013301 AND  
05000425/2013301

Dear Mr. Tynan:

During the period of April 15 to May 2, 2013, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the Vogtle Electric Generating Plant. At the conclusion of the tests, the examiners discussed preliminary findings related to the operating tests and the written examination submittal with those members of your staff identified in the enclosed report. The written examination was administered by your staff on May 10, 2013.

Two Reactor Operator (RO) and six Senior Reactor Operator (SRO) applicants passed both the operating test and written examination. Five RO applicants and one SRO applicant passed the operating examination but failed the written examination. There were two applicants who passed the written examination and received pass letters. One license has been delayed pending any written examination appeals that may impact the licensing decision for their application and the other was delayed until the applicant meets the time requirements associated with the application.

There were no post-examination comments concerning the written examination. A Simulator Fidelity Report is included in this report as Enclosure 2.

The initial RO and SRO written examinations submitted by your staff met the guidelines for quality contained in NUREG-1021, Operator Licensing Examination Standards for Power Reactors, Revision 9, Supplement 1, as described in the enclosed report.

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document

Room or from the Publicly Available Records (PARS) component of the NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If you have any questions concerning this letter, please contact me at (404) 997-4436.

Sincerely,

**/RA/**

Mark E. Franke, Chief  
Operations Branch 2  
Division of Reactor Safety

Docket Nos: 50-424, 50-425  
License Nos: NPF-68, NPF-81

Enclosures:

1. Report Details
2. Simulator Fidelity Report

cc: (See page 3)

Room or from the Publicly Available Records (PARS) component of the NRC's document system (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If you have any questions concerning this letter, please contact me at (404) 997-4436.

Sincerely,

**/RA/**

Mark E. Franke, Chief  
Operations Branch 2  
Division of Reactor Safety

Docket Nos: 50-424, 50-425  
License Nos: NPF-68, NPF-81

Enclosures:

1. Report Details
2. Simulator Fidelity Report

cc: (See page 3)

☒ PUBLICLY AVAILABLE   ☐ NON-PUBLICLY AVAILABLE

☐ SENSITIVE   ☒ NON-SENSITIVE

ADAMS: X Yes   ACCESSION NUMBER

X SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS	RII:DRS	RII:DRS	RII:DRS	RII:DRP
SIGNATURE	RA	RA	RA	RA	RA	RA
NAME	RBaldwin	AToth	ELea	MDonithan	MFranke	FEhrhardt
DATE	06/ 27 /2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013	6/27/2013
E-MAIL COPY?	YES   NO	YES   NO	YES   NO	YES   NO	YES   NO	YES   NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\OLExams\Vogtle Examinations\Initial Exams\Initial Exam 2013-301\Correspondence\Vogtle 2013 Exam Report rev 1.docx

cc:

C. Russ Dedrickson  
Fleet Support Supervisor  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Mr. C. R. Pierce  
Regulatory Affairs Director  
Southern Nuclear Operating Company  
Electronic Mail Distribution

S. Kuczynski  
Chairman, President and CEO  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Todd L. Youngblood  
Vice President  
Fleet Oversight  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

W. L. Bargerion  
Plant Manager  
Vogtle Electric Generating Plant  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

D. G. Bost  
Chief Nuclear Officer  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

N. J. Stringfellow  
Licensing Manager  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Paula Marino  
Vice President  
Engineering  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

T. A. Lynch  
Vice President  
Joseph M. Farley Nuclear Plant  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Dennis R. Madison  
Vice President  
Edwin I. Hatch Nuclear Plant  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Leigh Perry  
SVP & General Counsel-Ops & SNC  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

C. R. Pierce  
Nuclear Licensing Director  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

B. D. McKinney, Jr.  
Regulatory Response Manager  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

D. W. Daughhetee  
Licensing Engineer  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

Bradley J. Adams  
Vice President  
Fleet Operations Support  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

T. D. Honeycutt  
Regulatory Response Supervisor  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

L. P. Hill  
Licensing Supervisor  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

L. L. Crumpton  
Administrative Assistant, Sr.  
Southern Nuclear Operating Company, Inc.  
Electronic Mail Distribution

(cc cont'd – See page 4)

(cc cont'd)  
Hickox, T. Mark  
Vogtle Electric Generating Plant  
Electronic Mail Distribution

Mark Rauckhorst  
Site Vice President  
Vogtle Units 3 and 4  
Southern Nuclear Operating Company  
Electronic Mail Distribution

S. C. Swanson  
Site Support Manager  
Vogtle Electric Generating Plant  
Electronic Mail Distribution

Senior Resident Inspector  
U.S. Nuclear Regulatory Commission  
Vogtle Electric Generating Plant  
7821 River Road  
Waynesboro, GA 30830

Arthur H. Dombey, Esq.  
Troutman Sanders  
Electronic Mail Distribution

Jerry Ranalli  
Municipal Electric Authority of Georgia  
Power  
Electronic Mail Distribution

Sandra Threath, Manager  
Nuclear Response and Emergency  
Environmental Surveillance  
Bureau of Land and Waste Management  
Department of Health and Environmental  
Control  
Electronic Mail Distribution

Division of Radiological Health  
TN Dept. of Environment & Conservation  
401 Church Street  
Nashville, TN 37243-1532

Richard Haynes  
Director, Division of Waste Management  
Bureau of Land and Waste Management  
S.C. Department of Health and  
Environmental Control  
2600 Bull Street  
Columbia, SC 29201

Lee Foley  
Manager of Contracts Generation  
Oglethorpe Power Corporation  
Electronic Mail Distribution

Mark Williams  
Commissioner  
Georgia Department of Natural Resources  
Electronic Mail Distribution

Chuck Mueller  
Manager  
Policy and Radiation Program  
Georgia Department of Natural Resources  
Electronic Mail Distribution

James C. Hardeman  
Environmental Radiation Program Manager  
Environmental Protection Division  
Georgia Department of Natural Resources  
Electronic Mail Distribution

Mr. Steven M. Jackson  
Senior Engineer - Power Supply  
Municipal Electric Authority of Georgia  
Electronic Mail Distribution

Reece McAlister  
Executive Secretary  
Georgia Public Service Commission  
Electronic Mail Distribution

Office of the Attorney General  
40 Capitol Square, SW  
Atlanta, GA 30334

Office of the County Commissioner  
Burke County Commission  
Electronic Mail Distribution

Director  
Consumers' Utility Counsel Division  
Governor's Office of Consumer Affairs  
2 M. L. King, Jr. Drive  
Plaza Level East; Suite 356  
Atlanta, GA 30334-4600

(cc cont'd – See page 5)

(cc cont'd)  
Amy Whaley  
Resident Manager  
Electronic Mail Distribution

Southern Nuclear Operating Company Inc.  
ATTN: Richard Hons  
Plant Training and  
Emergency Preparedness Manager  
Vogtle Electric Generating Plant  
7821 River Road  
Bin 63030  
Waynesboro, GA 30830-2965

Letter to Tom E. Tynan from Mark E. Franke dated June 27, 2013

SUBJECT: VOGTLE ELECTRIC GENERATING PLANT – REACTOR AND SENIOR  
REACTOR OPERATOR INITIAL EXAMINATIONS 05000424/2013301 AND  
05000425/2013301

**Distribution:**

C. Evans, RII EICS

L. Douglas, RII EICS

RIDSNNRRDIRS

PUBLIC

RidsNrrPMVogtle Resource

**U.S. NUCLEAR REGULATORY COMMISSION**

**REGION II**

Docket Nos.: 05000424, 05000425

License Nos.: NPF-68, NPF-81

Report No.: 05000424/2013301 and 05000425/2013301

Licensee: Southern Nuclear Operating Company, Inc.

Facility: Vogtle Electric Generating Plant

Location: 7821 River Road  
Waynesboro, GA 30830

Dates: Operating Test – April 15 – May 2, 2013  
Written Examination – May 10, 2013

Examiners: R. Baldwin, Chief Examiner, Senior Operations Engineer  
E. Lea, Senior Operations Engineer  
A. Toth, Operations Engineer  
M. Donithan, Operations Engineer – Under-Instruction

Approved by: Mark E. Franke, Chief  
Operations Branch 2  
Division of Reactor Safety



## **SUMMARY OF FINDINGS**

ER 05000424/2013301, 05000425/2013301; April 15 – May 2, 2013, and May 10, 2013; Vogtle Electric Generating Plant Units 1 and 2; Operator License Examinations.

Nuclear Regulatory Commission (NRC) examiners conducted an initial examination in accordance with the guidelines in Revision 9, Supplement 1, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." This examination implemented the operator licensing requirements identified in 10 CFR §55.41, §55.43, and §55.45, as applicable.

Members of the Vogtle Electric Generating Plant staff developed both the operating tests and the written examination. The initial Reactor Operator (RO) and Senior Reactor Operator (SRO) written examination submittal met the quality guidelines contained in NUREG-1021.

The NRC administered the operating tests during the period of April 15 – May 2, 2013. Members of the Vogtle Electric Generating Plant training staff administered the written examination on May 10, 2013. Two RO applicants and six SRO applicants passed both the operating test and written examination and were issued licenses commensurate with the level of examination administered. Five RO applicants and one SRO applicant passed the operating test, however, failed the written examination.

One SRO applicant passed the operating test, but passed the written examination with an overall score (81%) between 80% and 82%. This applicant was issued a letter stating that the individual passed the examination and issuance of their license has been delayed pending any written examination appeals that may impact the licensing decision for their application. Additionally, one SRO applicant passed the entire examination however required an additional 45 days to meet the application requirements. Pending fulfillment of this time requirement, the applicant will receive the appropriate level license.

There were no post-examination comments on the written examination.

No findings were identified.

## REPORT DETAILS

### 4. OTHER ACTIVITIES

#### 4OA5 Operator Licensing Examinations

##### a. Inspection Scope

Members of the Vogtle Electric Generating Plant staff developed both the operating tests and the written examination. All examination material was developed in accordance with the guidelines contained in Revision 9, Supplement 1, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." The NRC examination team reviewed the proposed examination. Examination changes agreed upon between the NRC and the licensee were made per NUREG-1021 and incorporated into the final version of the examination materials.

The NRC reviewed the licensee's examination security measures while preparing and administering the examinations in order to ensure compliance with 10 CFR §55.49, "Integrity of examinations and tests."

The NRC examiners evaluated seven RO applicants and seven SRO applicants using the guidelines contained in NUREG-1021. The examiners administered the operating tests during the period of April 15 to May 2, 2013. Members of the Vogtle Electric Generating Plant training staff administered the written examination on May 10, 2013. Evaluations of applicants and reviews of associated documentation were performed to determine if the applicants, who applied for licenses to operate the Vogtle Electric Generating Plant, met the requirements specified in 10 CFR Part 55, "Operators' Licenses."

##### b. Findings

No findings were identified. The NRC determined, using NUREG-1021, that the licensee's initial examination submittal was within the range of acceptability expected for a proposed examination.

Two RO applicants and six SRO applicants passed both the operating test and written examination and were issued licenses commensurate with the level of examination administered. Five RO applicants and one SRO applicant passed the operating test, however, failed the written examination.

One SRO applicant passed the operating test, but passed the written examination with an overall score (81%) between 80% and 82%. This applicant was issued a letter stating that the individual passed the examination and issuance of their license has been delayed pending any written examination appeals that may impact the licensing decision for their application. One SRO applicant passed the entire examination however required an additional 45 days to meet the application requirements. Pending fulfillment of this time requirement, the applicant will receive the appropriate level license.

Copies of all individual examination reports were sent to the facility Training Manager for evaluation of weaknesses and determination of appropriate remedial training.

The licensee did not submit written post-examination comments. A copy of the final RO and SRO written examinations and answer keys with all changes incorporated may be accessed not earlier than June 10, 2015, in the ADAMS system (ADAMS Accession Number(s): ML13162A531 and ML13162A534).

4OA6 Meetings, Including Exit

Exit Meeting Summary

On May 3, 2013, the NRC examination team discussed generic issues associated with the operating test with Mr. Thomas, and members of the Vogtle Electric Generating Plant staff. The examiners asked the licensee if any of the examination material was proprietary. No proprietary information was identified.

## KEY POINTS OF CONTACT

### Licensee personnel

J. Thomas, Operations Director  
R. Brown, Training Manager  
J. Acree, Nuclear Operations Training Supervisor  
T. Harris, Nuclear Operations Plant Initial Instructor Initial, Lead  
G. Wainwright, Nuclear Operations Development Exam, Lead  
K. Jenkins, Nuclear Operations Plant Instructor  
A. Lowe, Nuclear Operations Plant Instructor

## **SIMULATOR FIDELITY REPORT**

Facility Licensee: Vogtle Electric Generating Plant

Facility Docket No.: 05000424 and 05000425

Operating Test Administered: April 15 – May 2, 2013

This form is to be used only to report observations. These observations do not constitute audit or inspection findings, and without further verification and review in accordance with Inspection Procedure 71111.11, are not indicative of noncompliance with 10 CFR 55.46. No licensee action is required in response to these observations.

No simulator fidelity or configuration issues were identified.