



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

November 19, 2019

Ernest J. Kapopoulos, Jr.
Site Vice President
H. B. Robinson Steam Electric Plant
Duke Energy Progress, LLC
3581 West Entrance Road, RNPA01
Hartsville, SC 29550

**SUBJECT: H. B. ROBINSON STEAM ELECTRIC PLANT – NRC OPERATOR LICENSE
EXAMINATION REPORT 05000261/2019301**

Dear Mr. Kapopoulos:

During the period September 16-20, 2019, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the H. B. Robinson Steam Electric 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 October 2, 2019.

All applicants passed both the operating test and written examination. There were no post-examination comments. A Simulator Fidelity Report is included in this report as Enclosure 2.

The initial examination submittal was within the range of acceptability expected for a proposed examination. All examination changes agreed upon between the NRC and your staff were made according to NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11.

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) 997-4551.

Sincerely,

/RA/

Gerald J. McCoy, Chief
Operations Branch 1
Division of Reactor Safety

Docket No: 50-261
License No: DPR-23

Enclosures:

1. Report Details
2. Simulator Fidelity Report

cc: Distribution via Listserv

SUBJECT: H. B. ROBINSON STEAM ELECTRIC PLANT – NRC OPERATOR LICENSE
EXAMINATION REPORT 05000261/2019301 dated November 19, 2019

DISTRIBUTION:

D. Bacon, RII
K. Kirchbaum, RII
N. Lacy, RII
G. McCoy, RII

* See previous page for concurrence

☒ PUBLICLY AVAILABLE ☐ NON-PUBLICLY AVAILABLE ☐ SENSITIVE ☒ NON-SENSITIVE

ADAMS: ☒ Yes ACCESSION NUMBER: **ML19324F914** ☐ SUNSI REVIEW COMPLETE ☐ FORM 665 ATTACHED

OFFICE	RII:DRS/OB2	RII:DRS/OB1	RII:DRS/OB1	RII:DRS/OB1	
NAME	KKIRCHBAUM	NLACY	DBACON	GMCCOY	
DATE	11/ 19 /2019	11/ 19 /2019	11/ 19 /2019	11/ 19 /2019	
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Examination Report

Docket No.: 05000261

License No.: DPR-23

Report No.: 05000261/2019301

Enterprise Identifier: L-2019-OLL-0027

Licensee: Duke Energy Progress, LLC

Facility: H. B. Robinson Steam Electric Plant, Unit 2

Location: Hartsville, SC

Dates: Operating Test – September 16-20, 2019
Written Examination – October 2, 2019

Examiners: D. Bacon, Chief Examiner, Senior Operations Engineer
K. Kirchbaum, Operations Engineer
N. Lacy, Operations Engineer

Approved by: Gerald J. McCoy, Chief
Operations Branch 1
Division of Reactor Safety

SUMMARY

ER 05000261/2019301; operating test September 16-20, 2019 and written exam October 2, 2019; H. B. Robinson Steam Electric Plant, Unit 2; Operator License Examinations.

Nuclear Regulatory Commission (NRC) examiners conducted an initial examination in accordance with the guidelines in Revision 11, 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 H. B. Robinson Steam Electric Plant, Unit 2, staff developed both the operating tests and the written examination. The initial operating test, written RO examination, and written SRO examination submittals met the quality guidelines contained in NUREG-1021.

The NRC administered the operating tests during the period September 16-20, 2019. Members of the H. B. Robinson Steam Electric Plant, Unit 2, training staff administered the written examination on October 2, 2019. All six Reactor Operator (RO) and six Senior Reactor Operator (SRO) applicants passed both the operating test and written examination. All applicants were issued licenses commensurate with the level of examination administered.

There were no post-examination comments.

No findings were identified.

REPORT DETAILS

4. OTHER ACTIVITIES

4OA5 Operator Licensing Examinations

a. Inspection Scope

The NRC evaluated the submitted operating test by combining the scenario events and JPMs in order to determine the percentage of submitted test items that required replacement or significant modification. The NRC also evaluated the submitted written examination questions (RO and SRO questions considered separately) in order to determine the percentage of submitted questions that required replacement or significant modification, or that clearly did not conform with the intent of the approved knowledge and ability (K/A) statement. Any questions that were deleted during the grading process, or for which the answer key had to be changed, were also included in the count of unacceptable questions. The percentage of submitted test items that were unacceptable was compared to the acceptance criteria of NUREG-1021, "Operator Licensing Standards for Power Reactors."

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 performed an audit of selected license applications during the preparatory site visit week in order to confirm that they accurately reflected the subject applicants' qualifications in accordance with NUREG-1021.

The NRC administered the operating tests during the period September 16-20, 2019. The NRC examiners evaluated six Reactor Operator (RO) and six Senior Reactor Operator (SRO) applicants using the guidelines contained in NUREG-1021. Members of the H. B. Robinson Steam Electric Plant, Unit 2, training staff administered the written examination on October 2, 2019. Evaluations of applicants and reviews of associated documentation were performed to determine if the applicants, who applied for licenses to operate the H. B. Robinson Steam Electric Plant, Unit 2, met the requirements specified in 10 CFR Part 55, "Operators' Licenses."

The NRC evaluated the performance or fidelity of the simulation facility during the preparation and conduct of the operating tests.

b. Findings

No findings were identified.

The NRC developed the written examination sample plan outline. Members of the H. B. Robinson Steam Electric Plant, Unit 2, training staff developed both the operating tests and the written examination. All examination material was developed in accordance with the guidelines contained in Revision 11, of NUREG-1021. 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 determined, using NUREG-1021, that the licensee's initial examination submittal was within the range of acceptability expected for a proposed examination.

All applicants passed both the operating test and written examination and were issued licenses.

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 any post-examination comments. A copy of the final written examinations and answer keys, with all changes incorporated, may be accessed not earlier than October 4, 2021, in the ADAMS system (ADAMS Accession Numbers ML19308A693 and ML19308A707).

4OA6 Meetings, Including Exit

Exit Meeting Summary

On September 20, 2019, the NRC examination team discussed generic issues associated with the operating test with Mr. Ernie Kapopoulos, Site Vice President, and members of the H. B. Robinson Steam Electric Plant, Unit 2, 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

E. Kapopoulos, Site Vice President
N. Flippin, Plant Manager
D. Hoffman, Operations Manager
L. Basta, Training Manager
K. Ellis, NSS Manager
T. Giese, Supt. Nuclear Operations Training
B. Tunnel, Supt. Nuclear Operations Training
J. Rackley, Supt. Nuclear Operations Training
J. Goodridge, Operations Training ILT Lead
J. Little, Senior Project Director
G. Curtis, AOM – Shift
N. Roh, AOM – Support

NRC personnel

A. Beasten, Resident Inspector

SIMULATOR FIDELITY REPORT

Facility Licensee: H. B. Robinson Steam Electric Plant, Unit 2

Facility Docket No.: 05000261

Operating Test Administered: September 16-20, 2019

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.