



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

May 29, 2019

Mr. Daniel G. Stoddard
Senior Vice President and
Chief Nuclear Officer
Innsbrook Technical Center
5000 Dominion Blvd.
Glen Allen, VA 23060-6711

**SUBJECT: SURRY NUCLEAR PLANT – NRC OPERATOR LICENSE EXAMINATION
REPORT 05000280/2019301 AND 05000281/2019301**

Dear Mr. Stoddard:

During the period April 22 – 26, 2019, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the Surry Nuclear 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 April 30, 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).

D. Stoddard

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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 Nos: 50-280, 50-281
License Nos: DPR-32, DPR-37

Enclosures:

1. Report Details
2. Simulator Fidelity Report

cc: Distribution via Listserv

SUBJECT: SURRY NUCLEAR PLANT – NRC OPERATOR LICENSE EXAMINATION
 REPORT 05000280/2019301 AND 05000281/2019301

DISTRIBUTION:

- D. Bacon, RII
- M. Bates, RII
- A. Goldau, RII
- J. Viera, RII

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE
 ADAMS: Yes ACCESSION NO: ML1915A693 SUNSI REVIEW COMPLETE FORM 665 ATTACHED

OFFICE	RII/DRS	RII/DRS	RII/DRS	RII/DRS	RII/DRS
SIGNATURE	DB	MB	DB for	JV	MC
NAME	DBacon	MBates	AGoldau	JViera	GMcCoy
DATE	5/29/2019	5/29/2019	5/29/2019	5/29/19	5/29/19
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO

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U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Examination Report

Docket No.: 50-280, 50-281

License No.: DPR-32, DPR-37

Report No.: 05000280/2019301 and 05000281/2019301

EPID No.: L-2019-OLL-0021

Licensee: Dominion Energy

Facility: Surry Nuclear Plant, Units 1 and 2

Location: 5850 Hog Island RD
Surry, VA 23883

Dates: Operating Test – April 22 - 26, 2019
Written Examination – April 30, 2019

Examiners: D. Bacon, Chief Examiner, Senior Operations Engineer
M. Bates, Senior Operations Engineer
A. Goldau, Operations Engineer
J. Viera, Operations Engineer

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

SUMMARY

ER 05000280/2019301, 05000281/2019301; operating test April 22 - 26, 2019 & written exam April 30, 2019; Surry Nuclear Plant; 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 Surry Nuclear Plant staff developed both the operating test 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 test during the period April 22 – 26, 2019. Members of the Surry Nuclear Plant training staff administered the written examination on April 30, 2019. All Reactor Operator (RO) and 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

i. Inspection Scope

The NRC evaluated the submitted operating test by combining the scenario events and job performance measures (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 administered the operating tests during the period April 22 – 26, 2019. NRC examiners evaluated eight RO and three SRO applicants using the guidelines contained in NUREG-1021. Members of the Surry Nuclear Plant training staff administered the written examination on April 30, 2019. Evaluations of applicants and reviews of associated documentation were performed to determine if the applicants, who applied for licenses to operate the Surry Nuclear Plant, 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.

ii. Findings

No findings were identified.

The NRC developed the written examination sample plan outline. Members of the Surry Nuclear Plant training staff developed both the operating test 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 that the licensee's written examination and operating test submittals were within the range of acceptable quality for a proposed examination specified by NUREG-1021.

No issues related to examination security were identified during preparation and administration of the 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 April 30, 2019 in the ADAMS system (ADAMS Accession Numbers ML19142A173 and ML19142A183).

40A6 Meetings, Including Exit

Exit Meeting Summary

On April 26, 2019 the NRC examination team discussed generic issues associated with the operating test with R. Simmons, Plant Manager, and members of the Surry Nuclear 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

R. Simmons, Plant Manager
J. Henderson, Engineering Director
R. Hamilton, Operations Manager
R. Philpot, Training Manager
C. Irwin, ILT Training Supervisor
M. Hanrahan, ILT Lead Instructor

NRC personnel

C. Read, Senior Resident Inspector

SIMULATOR FIDELITY REPORT

Facility Licensee: Surry Nuclear Plant

Facility Docket No.: 050000280, 050000281

Operating Test Administered: April 22 – 26, 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.