



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

September 20, 2023

Mr. Bob Coffey
Executive Vice President, Nuclear Division,
and Chief Nuclear Office
Florida Power & Light Company
Mail Stop: EX/JB
700 Universe Blvd.
Juno Beach, FL 33408

SUBJECT: ST. LUCIE NUCLEAR PLANT – NRC OPERATOR LICENSE EXAMINATION REPORT
05000335/2023301 AND 05000389/2023301

Mr. Coffey:

During the period August 7 – 14, 2023, the Nuclear Regulatory Commission (NRC) administered operating tests to employees of your company who had applied for licenses to operate the St Lucie 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 August 17, 2023.

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 12.

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) 997-4518.

Sincerely,

/RA/

Daniel M. Bacon, Chief
Engineering Branch 2
Division of Reactor Safety

Docket Nos: 50-335, 50-389
License Nos: DPR-67, NPF-16

Enclosures:

1. Report Details
 2. Simulator Fidelity Report
- cc: Distribution via Listserv

SUBJECT: ST. LUCIE NUCLEAR PLANT – NRC OPERATOR LICENSE EXAMINATION
REPORT 05000335/2023301 AND 05000389/2023301 dated September 20, 2023

DISTRIBUTION:

- K. Kirchbaum, Operations Engineer, RII
- D. Bacon, Branch Chief, EB2, RII
- T. Stephen, Branch Chief, OBI
- M. Endress, Branch Chief, OBII

* See previous page for concurrence

PUBLICLY AVAILABLE NON-PUBLICLY AVAILABLE SENSITIVE NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: **ML23268A444** SUNSI REVIEW COMPLETE FORM 665 ATTACHED

| | | | | | |
|--------|------------|------------|------------|--|--|
| OFFICE | RII/DRS/OB | RII/DRS/OB | RII/DRS/OB | | |
| NAME | DEgelstad | KKirchbaum | DBacon | | |
| DATE | 09/15/2023 | 09/19/2023 | 09/20/2023 | | |

OFFICIAL RECORD COPY DOCUMENT NAME:
[https://usnrc.sharepoint.com/teams/RIIOperatorLicensingExams/St Lucie/Initial Exam 2023-301/Communications/Examination Report \(PSL 2023-301\).docx](https://usnrc.sharepoint.com/teams/RIIOperatorLicensingExams/StLucie/InitialExam2023-301/Communications/ExaminationReport(PSL2023-301).docx)

U.S. NUCLEAR REGULATORY COMMISSION

REGION II

Examination Report

Docket No.: 05000335, 05000389

License No.: DPR-67, NPF-16

Report No.: 05000335/2023301, 05000389/2023301

Enterprise Identifier: L-2023-OLL-0033

Licensee: Florida Power and Light Company (FP&L)

Facility: St. Lucie Nuclear Plant, Units 1 & 2

Location: 6351 S. Ocean Drive
Jensen Beach, FL 34957

Dates: Operating Test – August 7-14, 2023
Written Examination – August 17, 2023

Examiners: Kevin Kirchbaum, Chief Examiner, Operations Engineer
David Lanyi, Senior Operations Engineer
Michael Kennard, Senior Operations Engineer
Tom Morrissey, Senior Resident Inspector – Vogtle 1&2

Approved by: Daniel M. Bacon,
Branch Chief,
Engineering Branch 2, RII

SUMMARY

ER 05000335/2023301, 05000389/2023301; operating test August 7-14, 2023 & written exam August 17, 2023; St. Lucie Nuclear Plant; Operator License Examinations.

Nuclear Regulatory Commission (NRC) examiners conducted an initial examination in accordance with the guidelines in Revision 12, 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.

The NRC developed the written examination outline. Members of the St Lucie Nuclear Plant 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 August 7-14, 2023. Members of the St Lucie Nuclear Plant training staff administered the written examination on August 17, 2023. All 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 license applications during the preparatory site visit to confirm that they accurately reflected the subject applicants' qualifications in accordance with NUREG-1021.

The NRC administered the operating tests during the period August 7 – 14, 2023. The NRC examiners evaluated six Reactor Operator (RO) and five Senior Reactor Operator (SRO) applicants using the guidelines contained in NUREG-1021. Members of the St Lucie Nuclear Plant training staff administered the written examination on August 17, 2023. Evaluations of applicants and reviews of associated documentation were performed to determine if the applicants, who applied for licenses to operate the St Lucie 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.

b. Findings

No findings were identified.

The NRC developed the written examination sample plan outline. Members of the St Lucie Nuclear Plant training staff developed both the operating tests and the written examination. All examination material was developed in accordance with the guidelines contained in Revision 12, 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. Six RO applicants and five SRO applicants passed both the operating test and written examination.

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 examination and answer key, with all changes incorporated, may be accessed not earlier than August 18, 2025, in the ADAMS system (ADAMS Accession Numbers ML23240A522 and ML23240A542).

4OA6 Meetings, Including Exit

Exit Meeting Summary

On August 14, 2023, the NRC examination team discussed generic issues associated with the operating test with Rob Craven, Site Vice President, and members of the St Lucie 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

Rob Craven, Site Vice President
Thad Edmonds, Operations Director
Janice Cruz, Engineering Director
Robert Story, Chemistry/HP Director
Troy Spillman, AOM
Karl Keith, SM-Training
Erik Feightner, Training Manager
Thomas Fisher, LOIT Supervisor
Rick Virgin, Simulator/Exams Supervisor
Brad Hinze, LOCT Supervisor
Sean Wylie, NRC Exam Author
George Asbeck, NRC Exam Author
Val Miklausich, Simulator/Exams Supervisor (Turkey Point)
Josh Reuer, Fleet Training Supervisor
Wyatt Godes, Fleet Training Director

NRC personnel

John Hickman, Senior Resident Inspector

SIMULATOR FIDELITY REPORT

Facility Licensee: St Lucie Nuclear Plant

Facility Docket No.: 05000335, 05000389

Operating Test Administered: August 7 – 14, 2023

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.

While conducting the simulator portion of the operating test, examiners observed the following:

| <u>Item</u> | <u>Description</u> |
|-------------------------------------|---|
| AR 02464795 – CMI Bypass Indication | <p>The examiners observed that when there is a Control Motion Inhibit (CMI) active there is both an annunciator at the top of the control board and a RED CMI “button” that is lit on the flatscreen. When rod motion is required, the CMI Bypass button to override the CMI is depressed. When the Bypass is in, the CMI RED light will flash RED/GREY with a yellow border.</p> <p>The issue identified happens when the CMI Bypass is removed and the CMI is put back in service. The RED/GREY flashing indicator on the flatscreen will end up on either RED or GREY depending on the timing of pushing the Bypass CMI button to remove the bypass function. The CMI is active as indicated by the annunciator at top of the control board and rod motion is blocked, even if the flatscreen indication is GREY. On a multiple JPMs the indication was GREY, which caused some confusion since the procedure directs the operator to verify the CMI RED indication on the flat panel prior to utilizing the CMI Bypass.</p> <p>The exam team did not consider this a rod control system issue since the CMI was active when required and this prevented the rods from moving as designed. We asked if this was a simulator issue or if it was also the same as the flat panels in the control rooms and this was unknown at the time of the exam. The licensee wrote the subject AR to capture and analyze the issue.</p> |