



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BLVD., SUITE 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713

April 27, 2022

Mr. Eric Carr  
President and Chief Nuclear Officer  
PSEG Nuclear, LLC  
P.O. Box 236  
Hancocks Bridge, NJ 08038

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNITS 1 AND 2 – INITIAL  
OPERATOR LICENSING EXAMINATION REPORT 05000272/2022301 AND  
05000311/2022301

Dear Mr. Carr:

On February 24, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at the Salem Nuclear Generating Station, Units 1 and 2. The enclosed examination report documents the examination results, which were discussed on April 1, 2022, with Mr. Richard DeSanctis, Plant Manager, and other members of your staff.

The examination included the evaluation of six applicants for reactor operator licenses, three applicants for instant senior reactor operator licenses, and one applicant for an upgrade senior reactor operator license. The written and operating examinations were developed using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11. The license examiners determined that all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses were issued on April 1, 2022.

No findings were identified during this examination.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Donald E. Jackson, Chief  
Operations Branch  
Division of Operating Reactor Safety

Docket Nos. 50-272 and 50-311  
License Nos. DPR-70 and DPR-75

Enclosure:  
Examination Report 05000272/2022301  
and 05000311/2022301 w/Attachment:  
Supplementary Information

cc w/encl: Distribution via ListServ

SUBJECT: SALEM NUCLEAR GENERATING STATION, UNITS 1 AND 2 – INITIAL OPERATOR LICENSING EXAMINATION REPORT 05000272/2022301 AND 05000311/2022301 DATED APRIL 27, 2022

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**EXAMINATION REPORT****U.S. NUCLEAR REGULATORY COMMISSION  
REGION I**

Docket Nos. 50-272 and 50-311

License Nos. DPR-70 and DPR-75

Enterprise Identifier: L-2022-OLL-0002

Report Nos. 05000272/2022301 and 05000311/2022301

Licensee: PSEG Nuclear, LLC

Facility: Salem Nuclear Generating Station, Units 1 and 2

Location: Hancocks Bridge, NJ 08038

Dates: February 14 – 18, 2022 (Operating Test Administration)  
February 24, 2022 (Written Examination Administration)  
March 11, 2022 (Licensee Submitted Post Exam Package)  
March 25, 2022 (NRC Examination Grading Completed)  
April 1, 2022 (Licenses Issued)

Examiners: J. DeMarshall, Chief Examiner, Operations Branch  
T. Fish, Senior Operations Engineer  
P. Ott, Operations Engineer  
B. Bergeon, Operations Engineer (RGN-IV)

Approved By: Donald E. Jackson, Chief  
Operations Branch  
Division of Operating Reactor Safety

## SUMMARY

ER 05000272/2022301 and 05000311/2022301; 2/14/2022 – 2/24/2022; Salem Nuclear Generating Station, Units 1 and 2; Initial Operator Licensing Examination Report.

Four NRC examiners evaluated the competency of six applicants for reactor operator licenses, three applicants for instant senior reactor operator licenses, and one applicant for an upgrade senior reactor operator licenses. The facility licensee developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11. The written examination was administered by the facility on February 24, 2022. NRC examiners administered the operating tests on February 14–18, 2022. The NRC examiners determined that all applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses have been issued.

A. NRC-Identified and Self-Revealing Findings

No findings were identified.

B. Licensee-Identified Violations

None.

## REPORT DETAILS

### 4. OTHER ACTIVITIES (OA)

#### 4OA5 Other Activities (Initial Operator License Examination)

##### .1 License Applications

###### a. Scope

The examiners reviewed all license applications submitted by the licensee to ensure the applications reflected that each applicant satisfied relevant license eligibility requirements. The applications were submitted on NRC Form 398, "Personal Qualification Statement," and NRC Form 396, "Certification of Medical Examination by Facility Licensee." The examiners also audited 100 percent of the license applications to confirm that they accurately reflected the subject applicant's qualifications. This audit focused on the applicant's experience and on-the-job training, including control manipulations that provided significant reactivity changes.

###### b. Findings

No findings were identified.

##### .2 Operator Knowledge and Performance

###### a. Examination Scope

On February 24, 2022, the licensee proctored the administration of the written examinations to all applicants. The licensee staff graded the written examinations, analyzed the results, and presented their analysis to the NRC on March 11, 2022.

The NRC examination team administered the various portions of the operating examination to all applicants on February 14–18, 2022. The applicants for reactor operator licenses participated in at least two dynamic simulator scenarios, in a control room and facilities walkthrough test consisting of 11 system tasks, and an administrative test consisting of four administrative tasks. The applicants seeking an instant senior reactor operator license participated in at least two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of 10 system tasks, and an administrative test consisting of five administrative tasks. The applicant seeking an upgrade senior reactor license participated in two dynamic simulator scenarios, a control room and facilities walkthrough test consisting of five system tasks, and an administrative test consisting of five administrative tasks.

###### b. Findings

No findings were identified.

All ten applicants passed the operating test and the written examination. For the written examinations, the reactor operator applicants' average score was 91.3 percent and ranged from 89.3 to 93.3 percent. The senior operator applicants' average score was

83.2 percent and ranged from 80.0 to 85.0 percent. The text of the examination questions may be accessed in the ADAMS system under the accession numbers noted in the Attachment. In accordance with current NRC policy, the release of the written examination in ADAMS to the public will be delayed for two years.

Chapter ES-403 and Form ES-403-1 of NUREG-1021 require the licensee to analyze the validity of any written examination questions that were missed by one-half or more of the applicants. The licensee conducted this analysis and submitted it to the Chief Examiner. The licensee also submitted comments for two questions on the SRO-only portion of the exam. The NRC accepted comments for one of the two questions. Details of the post exam comments and associated NRC responses may be accessed in the ADAMS system under the accession number noted in the Attachment.

### .3 Initial Licensing Examination Development

#### a. Examination Scope

The facility licensee developed the examinations in accordance with NUREG-1021, Revision 11. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The facility licensee submitted the operating examination outline on September 3, 2021. The Chief Examiner reviewed the outlines against the requirements of NUREG-1021 and provided comments to the licensee. The facility licensee submitted the draft examination package on November 29, 2021. The Chief Examiner reviewed the draft examination package against the requirements of NUREG-1021 and provided comments to the licensee on December 23, 2021. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of January 10, 2022. The licensee satisfactorily completed comment resolution on February 4, 2022.

#### b. Findings

No findings were identified.

The examiners determined that the written and operating examinations initially submitted by the licensee were within the range of acceptability expected for a proposed examination.

### .4 Simulation Facility Performance

#### a. Examination Scope

The examiners observed simulator performance with regard to plant fidelity during the examination validation and administration.

#### b. Findings

No findings were identified.

.5 Examination Security

a. Examination Scope

The examiners reviewed examination security for examination development and during both the onsite preparation week and examination administration week for compliance with NUREG-1021, Revision 11 requirements. Plans for simulator security and applicant control were reviewed and discussed with licensee personnel.

b. Findings

No findings were identified.

4OA6 Meetings, Including Exit

The Chief Examiner presented the examination results to Mr. Richard DeSanctis, Plant Manager, and other members of the licensee's staff on April 1, 2022.

The licensee did not identify any information or materials used during the examination as proprietary.

**ATTACHMENT: SUPPLEMENTARY INFORMATION**



**SUPPLEMENTARY INFORMATION**

**KEY POINTS OF CONTACT**

Licensee Personnel

Steven Nevelos, Senior Director of Nuclear Training  
Mark Wadusky, Operations Training Manager  
Rudolph Chan, Exam Author

**ITEMS OPENED, CLOSED, AND DISCUSSED**

NONE

**ADAMS DOCUMENTS REFERENCED**

Accession No. ML22116A182 – FINAL-Written Exam (Note: In accordance with current NRC policy, the release of this examination in ADAMS to the public will be delayed for two years.)

Accession No. ML22116A177 – FINAL-Operating Test (Note: In accordance with current NRC policy, the release of this examination in ADAMS to the public will be delayed for two years.)

Accession No. ML22116A192 – Facility Post-Exam Comments and NRC Resolutions