



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
WASHINGTON, D.C. 20555-0001

October 13, 2026

Christopher H. Mudrick
Senior Vice President and
Chief Nuclear Officer
Constellation Energy Generation, LLC
President
Constellation Nuclear
200 Energy Way, KSA-3N
Kennett Square, PA 19348

SUBJECT: CHRISTOPHER M. CRANE CLEAN ENERGY CENTER, UNIT 1 – INITIAL
OPERATOR LICENSING EXAMINATION REPORT 05000289/2026301

Dear Christopher Mudrick:

On August 13, 2026, the U.S. Nuclear Regulatory Commission (NRC) completed an examination at Christopher M. Crane Clean Energy Center, Unit 1. The enclosed examination report documents the examination results, which were discussed on September 24, 2026, with Clint Six, Site Vice President, and other members of your staff.

The examination included the evaluation of 13 applicants for reactor operator licenses and 13 applicants for instant senior reactor operator licenses. The written and operating examinations were developed using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 12. The license examiners determined that 25 of 26 applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses were issued on September 24, 2026. One applicant for a reactor operator license failed the written examination and was issued a preliminary denial letter.

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,

MANAN
PATEL

Digitally signed by
MANAN PATEL
Date: 2026.10.13
07:16:27 -04'00'

Manan P. Patel, Acting Chief
Operator Licensing Branch
Division of Reactor Safety, Region I
Office of the Chief Nuclear Reactor Inspector

Docket No. 05000289
License No. DPR-50

Enclosure:
As stated

cc w/encl: Distribution via Granicus Communications

SUBJECT: CHRISTOPHER M. CRANE CLEAN ENERGY CENTER, UNIT 1 – INITIAL
OPERATOR LICENSING EXAMINATION REPORT 05000289/2026301 DATED
OCTOBER 13, 2026

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ADAMS Accession Numbers: ML26286A006; PKG: ML25322A234

EXAMINATION REPORT

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

Docket Number: 05000289

License Number: DPR-50

Report Number: 05000289/2026301

Licensee: Constellation Energy Generation, LLC

Enterprise Identifier: L-2026-OLL-0036

Facility: Christopher M. Crane Clean Energy Center, Unit 1

Location: Middletown, PA

Dates: August 3–11, 2026 (Operating Test Administration)
August 13, 2026 (Written Examination Administration)
August 31, 2026 (Licensee Submitted Post-Exam Package)
August 15 to September 17, 2026 (NRC Examination Grading)
September 24, 2026 (Licenses Issued)

Examiners: T. Setzer, Chief Examiner, Operator Licensing Branch
D. Bacon, Branch Chief
R. Clagg, Senior Project Engineer
B. Dyke, Senior Operations Engineer
C. Harrington, Senior Operations Engineer
C. Henckel, Senior Operations Engineer
J. Kepley, Operations Engineer
D. Lanyi, Senior Operations Engineer
J. Morgan, Senior Operations Engineer
L. Sinclair, Senior Operations Engineer

Approved By: Manan P. Patel, Acting Chief
Operator Licensing Branch
Division of Reactor Safety, Region I
Office of the Chief Nuclear Reactor Inspector

Enclosure

SUMMARY

ER 05000289/2026301; 08/03/2026 – 08/13/2026; Christopher M. Crane Clean Energy Center, Unit 1; Initial Operator Licensing Examination Report.

Ten NRC examiners evaluated the competency of 13 applicants for reactor operator licenses and 13 applicants for instant senior operator reactor licenses. The NRC developed the examinations using NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 12.

The written examination was administered by the facility on August 13, 2026. NRC examiners administered the operating tests on August 3–11, 2026. The NRC examiners determined that 25 of the 26 applicants satisfied the requirements of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 55, and the appropriate licenses have been issued. One applicant for a reactor operator license failed the written examination and was issued a preliminary denial letter.

No findings were identified.

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 all of the license applications in detail 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 August 13, 2026, 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 August 31, 2026.

The NRC examination team administered the various portions of the operating examination to all applicants on August 3–11, 2026. The applicants seeking a reactor operator license participated in at least two dynamic simulator scenarios, 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 ten system tasks, and an administrative test consisting of five administrative tasks.

b. Findings

Twenty-five of 26 applicants passed all parts of the operating test and the written examination. One applicant for a reactor operator license failed the written examination. For the written examinations, the reactor operator applicants' average score was 87.0 percent. The instant senior reactor operator applicants' average score was 92.0 percent. The text of the examination questions may be accessed in the Agencywide Documents Access and Management System (ADAMS) under the accession numbers noted in the Attachment. In accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for two years.

Chapter ES-4.4 of NUREG-1021 requires the licensee to analyze the validity of any written examination questions that were missed by half or more of the applicants. Licensee training staff performed this analysis and forwarded it to the Chief Examiner.

The licensee submitted post-examination comments on August 31, 2026. The licensee requested the NRC accept more than one correct answer on questions 19 and 58. The licensee provided a formal written analysis with references for each of the two questions. There were no post-examination comments provided on the operating test portion of the examination.

The NRC reviewed the post-examination comments and made changes to the exam key for one of the two questions. Specifically, the NRC accepted two correct answers (B and C) for question 19. Due to this change in the answer key, all reactor operator and senior reactor operator applicants were regraded based on both B and C being correct for question 19. Credit was given to all applicants who answered one of the two acceptable answers on question 19. The licensee's post-examination comments and the NRC's resolution to those comments may be accessed in ADAMS under the accession numbers noted in the Attachment. In accordance with current NRC policy, the post-examination comments and the NRC's resolution to those comments will be available immediately.

.3 Initial Licensing Examination Development

a. Examination Scope

The NRC developed the examinations in accordance with NUREG-1021, Revision 12. All licensee facility training and operations staff involved in examination preparation and validation were listed on a security agreement. The NRC developed the written exam outline and provided it to the licensee on December 3, 2025. The licensee submitted the operating examination outline on March 6, 2026. The licensee submitted the draft examination package on May 20, 2026. The Chief Examiner reviewed the draft examination package against the requirements of NUREG-1021 and provided comments to the exam authors. The NRC conducted an onsite validation of the operating examinations and provided further comments during the week of June 29, 2026.

b. Findings

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

No findings were identified.

.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 12, 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 Clint Six, Site Vice President, and other members of the licensee's staff on September 24, 2026. The licensee acknowledged the observations presented.

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

Tanya Bellay
Paul Isham
Kevin Swiger
Fred Bruns
Matt Adams
Rob Cameron
Rob Louer
Ryan Harris
Dave Lewis
Clint Six
Trevor Orth
Seth Mitten
Dovas Kostas
Dean Thomas

ITEMS OPENED, CLOSED, AND DISCUSSED

Open/Closed

None

ADAMS DOCUMENTS REFERENCED

Accession No. ML26271A084 – Final Written Exam (Note: In accordance with current NRC policy, the release of this written examination in ADAMS to the public will be delayed for two years.)

Accession No. ML26271A083 – Final Operating Exam (Note: In accordance with current NRC policy, the release of this operating examination in ADAMS to the public will be delayed for two years.)

Accession No. ML26271A094 – Post Exam Comments (Note: In accordance with current NRC policy, the release of this operating examination in ADAMS to the public will be available immediately.)

Accession No. ML26271A099 – Post Exam Comments Resolution (Note: In accordance with current NRC policy, the release of this operating examination in ADAMS to the public will be available immediately.)