



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

October 30, 2019

Mr. Bryan C. Hanson
Senior VP, Exelon Generation Company, LLC
President and CNO, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

**SUBJECT: CLINTON POWER STATION—NRC INITIAL LICENSE EXAMINATION
REPORT 05000461/2019301**

Dear Mr. Hanson:

On September 24, 2019, U.S. Nuclear Regulatory Commission (NRC) completed the initial operator licensing examination process for license applicants employed at your Clinton Power Station. The enclosed report documents the results of those examinations. Preliminary observations noted during the examination process were discussed on September 13, 2019, with Mr. T. Dean and other members of your staff. An exit meeting was conducted by telephone on September 27, 2019, between Mr. T. Dean of your staff and Mr. C. Zoia, Senior Operator Licensing Examiner, to review the proposed final grading of the written examination for the license applicants.

The NRC examiners administered an initial license examination operating test during the week of September 9, 2019. The written examination was administered by Clinton Power Station training department personnel on September 19, 2019. Three Senior Reactor Operator and four Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on September 30, 2019. Seven applicants passed all sections of their respective examinations and two were issued senior operator licenses and four were issued operator licenses. In accordance with NRC policy, the license for the remaining applicant will be issued upon resolution of deferred items.

The administered written examination and operating test, as well as documents related to the development and review (outlines, review comments and resolution, etc.) of the examination will be withheld from public disclosure until September 24, 2021.

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 Title 10 of the *Code of Federal Regulations*, Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

/RA/

Robert J. Orlikowski, Chief
Operations Branch
Division of Reactor Safety

Docket No. 50-461
License No. NPF-62

Enclosures:

1. OL Examination
Report 05000461/2019301
2. Simulation Facility Fidelity Report

cc: Distribution via LISTSERV®
T. Dean, Training Director,
Clinton Power Station

Letter to Bryan C. Hanson from Robert J. Orlikowski dated October 30, 2019.

SUBJECT: CLINTON POWER STATION—NRC INITIAL LICENSE EXAMINATION
REPORT 05000461/2019301

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REGION III

Docket No: 05000461

License No: NPF-62

Report No: 05000461/2019301

Enterprise Identifier: L-2019-OLL-0001

Licensee: Exelon Generation Company, LLC

Facility: Clinton Power Station

Location: Clinton, IL

Dates: September 9, 2019, through September 24, 2019

Inspectors: C. Zoia, Senior Operations Engineer, Chief Examiner
D. Reeser, Operations Engineer, Examiner
G. Roach, Senior Operations Engineer, Examiner

Approved By: R. Orlikowski, Chief
Operations Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

Examination Report 05000461/2019301; Exelon Generation Company, LLC; Clinton Power Station; Initial License Examination Report.

The announced initial operator licensing examination was conducted by regional Nuclear Regulatory Commission examiners in accordance with the guidance of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11.

Examination Summary:

Seven applicants passed all sections of their respective examinations and two were issued senior operator licenses and four were issued operator licenses. In accordance with NRC policy, the license for the remaining applicant will be issued following certification by the facility that all the deferred experience requirement elements are complete. (Section 40A5.1).

REPORT DETAILS

4OA5 Other Activities

.1 Initial Licensing Examinations

a. Examination Scope

The U.S. Nuclear Regulatory Commission (NRC) examiners and members of the facility licensee's staff used the guidance prescribed in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 11, to develop, validate, administer, and grade the written examination and operating test. The written examination outlines were developed by the NRC staff and were transmitted to the facility licensee's staff. Members of the facility licensee's staff prepared the operating test outlines and developed the written examination and operating test. The NRC examiners validated the proposed examination during the week of August 12, 2019, with the assistance of members of the facility licensee's staff. During the onsite validation week, the examiners audited two license applications for accuracy. The NRC examiners, with the assistance of members of the facility licensee's staff, administered the operating test, consisting of job performance measures and dynamic simulator scenarios, during the week of September 9, 2019. The facility licensee administered the written examination on September 19, 2019.

b. Findings

(1) Written Examination

The NRC examiners determined that the written examination, as proposed by the licensee, was within the range of acceptability expected for a proposed examination. Less than 20 percent of the proposed examination questions were determined to be unsatisfactory and required modification or replacement.

During the validation of the written examination, several questions were modified. All changes made to the written examination were made in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," and documented on Form ES-401-9, "Written Examination Review Worksheet." The Form ES-401-9, the written examination outlines (ES-401-2 and ES-401-3), and both the proposed and final written examinations, will be available electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS) on September 24, 2021, (ADAMS Accession Numbers ML17214A849, ML17214A846, ML17214A848, and ML17214A844, respectively).

On September 24, 2019, the licensee submitted documentation noting that there were no post-examination comments for consideration by the NRC examiners when grading the written examination.

The NRC examiners graded the written examination on September 27, 2019, and conducted a review of each missed question to determine the accuracy and validity of the examination questions.

(2) Operating Test

The NRC examiners determined that the operating test, as originally proposed by the licensee, was within the range of acceptability expected for a proposed examination.

Following the review and validation of the operating test, minor modifications were made to several Job Performance Measures, and some minor modifications were made to the dynamic simulator scenarios. All changes made to the operating test were made in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," and were documented on Form ES-301-7, "Operating Test Review Worksheet." The Form ES-301-7, the operating test outlines (ES-301-1, ES-301-2, and ES-D-1s), and both the proposed and final operating tests, will be available electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS on September 24, 2021 (ADAMS Accession Numbers ML17214A849, ML17214A846, ML17214A848, and ML17214A844, respectively).

The NRC examiners completed operating test grading on September 26, 2019.

(3) Examination Results

Three applicants at the Senior Reactor Operator level and four applicants at the Reactor Operator level were administered written examinations and operating tests. Six applicants passed all portions of their examinations and were issued their respective operating licenses on September 30, 2019. In accordance with NRC policy, the license for the remaining applicant will be issued following certification by the facility that all deferred experience requirement elements are complete.

.2 Examination Security

a. Scope

The NRC examiners reviewed and observed the licensee's implementation of examination security requirements during the examination validation and administration to assure compliance with Title 10 of the *Code of Federal Regulations*, Part 55.49, "Integrity of Examinations and Tests." The examiners used the guidelines provided in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," to determine acceptability of the licensee's examination security activities.

b. Findings

None.

4OA6 Management Meetings

.1 Debrief

The chief examiner presented the examination team's preliminary observations and findings on September 13, 2019, to Mr. T. Dean and other members of the Clinton Power Station Operations and Training Department staff.

.2 Exit Meeting

The chief examiner conducted an exit meeting on September 27, 2019, with Mr. T. Dean by telephone. The NRC's final disposition of the station's post-examination comments were disclosed and discussed with Mr. Dean during the telephone discussion. The examiners asked the licensee whether any of the material used to develop or administer the examination should be considered proprietary. No proprietary or sensitive information was identified during the examination or debrief/exit meetings.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee

T. Dean, Training Director
J. Weissinger, Operations Director
D. Shelton, Regulatory Assurance Manager
M. Beeler, Operations Training Manager
T. Jennings, Exam Author
W. Kiser, Exam Author
M. Griffin, Facility Representative

U.S. Nuclear Regulatory Commission

E. Sanchez, Senior Resident Inspector
C. Zoia, Chief Examiner
D. Reeser, Examiner
G. Roach, Examiner

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, Discussed

None

LIST OF ACRONYMS USED

ADAMS	Agencywide Documents Access and Management System
NRC	U.S. Nuclear Regulatory Commission

SIMULATION FACILITY FIDELITY REPORT

Facility Licensee: Clinton Power Station

Facility Docket No: 50-461

Operating Tests Administered: September 9, 2019, through September 13, 2019

The following documents observations made by the U.S. Nuclear Regulatory Commission (NRC) examination team during the initial operator license examination. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of non-compliance with Title 10 of the *Code of Federal Regulations*, Part 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information which may be used in future evaluations. No licensee action is required in response to these observations.

During the conduct of the simulator portion of the operating tests, the following items were observed:

ITEM	DESCRIPTION
SWR 0135530	After resetting the simulator between scenarios, an AR/PR spike was observed on the trend recorder by an NRC examiner because it was not removed during the reset process as expected.