



UNITED STATES  
NUCLEAR REGULATORY COMMISSION

REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, ILLINOIS 60532-4352

November 26, 2018

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 05000461/2018301

Dear Mr. Hanson:

On September 12, 2018, the 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 7, 2018, with Mr. T. Stoner, Site Vice President, and other members of your staff. An exit meeting was conducted by telephone on October 17, 2018, with Mr. T. Dean, Training Director, other members of your staff, and Mr. J. DeMarshall, Chief Operator Licensing Examiner, to review the final grading of the written examination for the license applicants. The NRC also confirmed that the station submitted documentation noting that there were no post-examination comments for consideration during NRC grading of the examination.

The NRC examiners administered an initial license examination operating test during the weeks of August 27, 2018, and September 3, 2018. The written examination was administered by Clinton Power Station training department personnel on September 12, 2018. Six Senior Reactor Operator (SRO) and eight Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on October 16, 2018. Fourteen applicants passed all sections of their respective examinations; five applicants were issued senior operator licenses and eight applicants were issued operator licenses. Issuance of the license for one SRO applicant has been delayed pending the receipt of additional information. The SRO applicant was issued a Notification Letter providing the details associated with the need for additional information.

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 12, 2020.

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 05000461/2018301
2. Simulator Fidelity Report

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

Letter to Bryan C. Hanson from Robert J. Orlikowski dated November 26, 2018.

SUBJECT: CLINTON POWER STATION—NRC INITIAL LICENSE EXAMINATION  
REPORT 05000461/2018301

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Numbers: 50-461

License Numbers: NPF-62

Report Numbers: 05000461/2018301

Licensee: Exelon Generation Company, LLC

Facility: Clinton Power Station

Location: Clinton, IL

Dates: August 27, 2018, through September 12, 2018

Examiners: J. DeMarshall, Senior Operations Engineer,  
Chief Examiner  
G. Roach, Senior Operations Engineer, Examiner  
D. Reeser, Operations Engineer, Examiner  
J. Seymour, Operations Engineer, Examiner

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

## **SUMMARY**

Examination Report 05000461/2018301; 8/27/2018–9/12/2018; 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

Fourteen of fourteen applicants passed all sections of their respective examinations. Five applicants were issued senior operator licenses and eight applicants were issued operator licenses. One Senior Reactor Operator applicant was issued a Notification Letter for delayed issuance of the license pending the receipt of additional information (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 prepared 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 6, 2018, with the assistance of members of the facility licensee's staff. During the onsite validation week, the examiners audited four 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 period of August 27, 2018, through September 7, 2018. The facility licensee administered the written examination on September 12, 2018.

##### 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 or replaced. All changes made to the written examination were made in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," and were documented on Form ES-401-9, "Written Examination Review Worksheet." The Form ES-401-9, the written examination outlines (ES-401-1 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 12, 2020 (ADAMS Accession Numbers ML17164A361, ML17164A364, ML17164A367, and ML17164A362, respectively).

On September 17, 2018, 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 19, 2018, 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 12, 2020 (ADAMS Accession Numbers ML17164A361, ML17164A364, ML17164A367, and ML17164A362, respectively).

The NRC examiners completed operating test grading on October 15, 2018.

(3) Examination Results

Six applicants at the Senior Reactor Operator level and eight applicants at the Reactor Operator level were administered written examinations and operating tests.

Fourteen applicants passed all portions of their examinations. Thirteen applicants were issued their respective operating licenses on October 16, 2018. One Senior Reactor Operator applicant was issued a Notification Letter for delayed issuance of the license pending the receipt of additional information pertaining to the completion of deferred items.

.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*, Section 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 7, 2018, to Mr. T. Stoner, Site Vice President, and other members of the Clinton Power Station staff.

.2 Exit Meeting

The chief examiner conducted an exit meeting on October 17, 2018, with Mr. T. Dean, Training Director, and other members of the Clinton Power Station staff, by telephone. The chief 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. Stoner, Site Vice President  
J. Weissinger, Operations Director  
R. Champley, Senior Manager Op Services and Support  
T. Dean, Training Director  
D. Williams, Ops Training Manager  
D. Shelton, Regulatory Assurance Manager  
M. McCormic, ILT Lead Instructor  
T. Jennings, Facility Exam Author  
B. Keiser, Contract Exam Author  
P. Bulpitt, SRO Facility Representative

#### U.S Nuclear Regulatory Commission

E. Sanchez Santiago, Senior Resident Inspector  
D. Sargis, Resident Inspector  
J. DeMarshall, Senior Operations Engineer, Chief Examiner  
G. Roach, Senior Operations Engineer  
D. Reeser, Operations Engineer  
J. Seymour, Operations Engineer

### **ITEMS OPENED, CLOSED, AND DISCUSSED**

#### Opened, Closed, and Discussed

None

### **LIST OF ACRONYMS USED**

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

## SIMULATOR FIDELITY REPORT

Facility Licensee: Clinton Power Station

Facility Docket Nos: 50-461

Operating Tests Administered: August 27, 2018, through September 7, 2018

The following documents observations made by the 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
None	N/A