



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**
REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

March 16, 2017

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 05000461/2017301**

Dear Mr. Hanson,

On February 13, 2017, 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 February 7, 2017, with J. Ruth and other members of your staff. An exit meeting was conducted by telephone on February 21, 2017, between Mr. J. Ruth of your staff and Mr. C. Zoia, Chief Operator Licensing Examiner, to review the proposed 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 January 30, and February 6, 2017. The written examination was administered by Clinton Power Station training department personnel on February 9, 2017. Nine Senior Reactor Operator applicants and one Reactor Operator applicant were administered license examinations. The results of the examinations were finalized on February 28, 2017. Ten applicants passed all sections of their respective examinations; nine applicants were issued senior operator licenses and one was issued an operator license.

The written examination and other related written examination documentation will be withheld from public disclosure for 24 months per your request.

In accordance with Title 10 of the *Code of Federal Regulations*, Section 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Website at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

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 05000461/2017301
2. Simulation Facility Fidelity Report

cc: Distribution via LISTSERV®
J. Ruth, Training Director,
Clinton Power Station

Letter to Bryan C. Hanson from Robert J. Orlikowski dated March 16, 2017

SUBJECT: CLINTON POWER STATION – NRC INITIAL LICENSE EXAMINATION
REPORT 05000461/2017301

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REGION III

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

Report No: 05000461/2017301

Licensee: Exelon Generation Company, LLC

Facility: Clinton Power Station

Location: Clinton, IL

Dates: January 30 through February 13, 2017

Examiners: C. Zoia, Operations Engineer – Chief Examiner
M. Bielby, Senior Operations Engineer – Examiner
D. Reeser, Operations Engineer – Examiner
R. Walton, Senior Operations Engineer – Examiner

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

SUMMARY

ER 05000461/2017301; 01/30/2017 – 02/13/2017; Exelon Generation Co., LLC; Clinton Power Station, Unit 1; Initial License Examination Report.

The announced initial operator licensing examination was conducted by regional U.S. Nuclear Regulatory Commission examiners in accordance with the guidance of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10.

Examination Summary:

Ten of ten applicants passed all sections of their respective examinations. Nine applicants were issued senior operator licenses and one applicant was issued an operator license. (Section 4OA5.1)

REPORT DETAILS

40A5 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 10, to develop, validate, administer, and grade the written examination and operating test. Members of the facility licensee's staff prepared the outline and developed the written examination and operating test. The NRC examiners validated the proposed examination during the week of January 2, 2017, with the assistance of members of the facility licensee's staff. During the on-site 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 (JPMs) and dynamic simulator scenarios, during the period of January 30, 2017 through February 6, 2017. The facility licensee administered the written examination on February 9, 2017.

b. Findings

(1) Written Examination

All changes made to the proposed 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," which 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 February 13, 2017, the licensee submitted documentation noting that there were no post-examination comments for consideration by the NRC examiners when grading the written examination. The proposed written examination, as well as the final as-administered examination and answer key will be available in 24 months electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS.

The NRC examiners graded the written examination on February 21, 2017, 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. However, several JPMs were modified for clarification and ease of administration. Changes made to the operating test, documented in a document titled, "Operating Test

Comments,” as well as the final as administered dynamic simulator scenarios and JPMS, will be available electronically in 24 months in the NRC Public Document Room or from the Publicly Available Records component of NRC's ADAMS.

The NRC examiners completed operating test grading on February 28, 2017.

(3) Examination Results

Nine applicants at the Senior Reactor Operator level and one applicant at the Reactor Operator level were administered written examinations and operating tests. Ten applicants passed all portions of their examinations and were issued their respective operating licenses on March 14, 2017.

.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

An Initial License Training (ILT) instructor was pursuing Floor Instructor qualifications during an ILT Casualty Operations examination when interaction with ILT students occurred. The incident happened as part of a post-scenario discussion, in a teaching situation, for an instructor signed onto an ILT Exam Security, and no one present recognized the individual’s badge for Initial Operator Licensing Exam Security. The specific interactions involved discussions on fundamentals: STAR, use of time stamps, team communications, and procedural follow-up. A follow-up investigation determined that no exam compromise occurred. This issue, which was of minor significance, was documented in AR 02737152.

4OA6 Management Meetings

.1 Debrief

The chief examiner presented the examination team's preliminary observations and findings February 7, 2017, to Mr. J. Ruth, and other members of the Clinton Power Station Operations and Training Department staff.

.2 Exit Meeting

The chief examiner conducted an exit meeting on February 21, 2017, with Mr. J. Ruth, Training Director, by telephone. The NRC's final disposition of the station's written examination grading and the expected date when operating test grading and approval were disclosed and discussed with Mr. Ruth during the telephone discussion. The licensee was asked whether any of the material used to develop or administer the examination was 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

J. Ruth, Director Site Training
J. Cunningham, Maintenance Director (Acting Site Vice President)
S. Gackstetter, Engineering Director
S. Stricklan, Shift Operations Superintendent
S. Minya, Operations Training Manager
J. Lucas, Facility Representative
M. McCormic, ILT Lead Instructor
T. Jennings, Facility Exam Author
B. Keiser, Contractor Exam Author
C. Joseph, Work Management
D. Avery, Regulatory Assurance Representative
D. Shelton, Regulatory Assurance Manager

U.S. Nuclear Regulatory Commission

C. Zoia, Chief Examiner
M. Bielby, Examiner
D. Reeser, Examiner
R. Walton, Examiner
J. Wojewoda, Resident Inspector

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened

None

Closed

None

LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
CFR	<i>Code of Federal Regulations</i>
ILT	Initial License Training
JPM	Job Performance Measures
NRC	U.S. Nuclear Regulatory Commission

SIMULATION FACILITY FIDELITY REPORT

Facility Licensee: Clinton Power Station

Facility Docket No: 50-461

Operating Tests Administered: January 30, 2017 – February 6, 2017

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* 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
Issue Report (IR) # 03967920	Trip of Chilled Water System due to low chiller flow increased simulator temperatures and resulted in delays in the examination. The exam proceeded in spite of these delays through the use of temporary air conditioning, however, temperatures approached 90 degrees at times in the simulator.