



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

May 31, 2016

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

**SUBJECT: QUAD CITIES NUCLEAR POWER STATION – NRC INITIAL LICENSE
EXAMINATION REPORT 05000254/2016301; 05000265/2016301**

Dear Mr. Hanson:

On May 5, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed the initial operator licensing examination process for license applicants employed at your Quad Cities Nuclear Power Station. The enclosed report documents the results of those examinations. Preliminary observations noted during the examination process were discussed on April 28, 2016, with Mr. S. Darin, Site Vice President, and other members of your staff. An exit meeting was conducted by telephone on May 23, 2016, between Mr. E. Pannell, Training Manager, and Mr. B. Palagi, Chief Operator Licensing Examiner, to review the final grading for the license applicants. The NRC confirmed 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 April 18 and 25, 2016. The written examination was administered by Quad Cities Nuclear Power Station Training Department personnel on May 2, 2016. Nine Senior Reactor Operator and three Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on May 18, 2016. All twelve applicants passed all sections of their respective examinations and were issued Licenses.

The written examination 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, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter, its enclosure, and your response (if any) will be available electronically for public

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inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site 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 Nos. 50-254; 50-265
License Nos. DPR-29; DPR-30

Enclosures:

1. Operator Licensing Examination
Report 05000254/2016301;
05000265/2016301
2. Simulation Facility Report

cc: Distribution via LISTSERV®
Mr. Edward Pannell, Training Manager

U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket Nos: 50-254; 50-265
License Nos: DPR-29; DPR-30

Report Nos: 05000254/2016301; 05000265/2016301

Licensee: Exelon Generation Company, LLC

Facility: Quad Cities Nuclear Power Station, Units 1 and 2

Location: Cordova, Illinois

Dates: April 18 – May 5, 2016

Inspectors: B. Palagi, Senior Operations Engineer – Chief Examiner
R. Walton, Senior Operations Engineer – Examiner
J. Seymour, Operations Engineer – Examiner

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

SUMMARY

ER 05000254/2016301; 05000265/2016301; 04/18/2016 - 05/5/2016; Exelon Generation Company, LLC; Quad Cities Nuclear Power Station, Units 1 and 2; 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

Twelve of twelve applicants passed all sections of their respective examinations. Nine applicants were issued senior operator licenses and three applicants were issued operator licenses. (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 March 21, 2016, with the assistance of members of the facility licensee's staff. 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 April 18, 2016, through April 28, 2016. The facility licensee administered the written examination on May 2, 2016.

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.

All changes made to the proposed 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 made available electronically in the NRC Public Document Room or from the Publicly Available Records component of NRC's document system Agencywide Documents Access and Management System (ADAMS).

On May 5, 2016, 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 May 10, 2016, 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.

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, are available electronically 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 May 18, 2016.

(3) Examination Results

Nine applicants at the Senior Reactor Operator level and three applicants at the Reactor Operator level were administered written examinations and operating tests. The twelve applicants passed all portions of their examinations and were issued their respective operating licenses.

.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* (10 CFR), 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

No findings were identified.

4OA6 Management Meetings

.1 Debrief

The chief examiner presented the examination team's preliminary observations on April 28, 2016, with Mr. S. Darin, Site Vice President, and other members of the Quad Cities Nuclear Power Station staff.

.2 Exit Meeting

The chief examiner conducted an exit meeting on May 23, 2016, with Mr. E. Pannell, Manager Operations Training, by telephone. The NRC's final disposition of the examination was discussed with Mr. Pannell, 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

S. Darin, Site Vice President
K. Ohr, Plant Manager
E. Pannell, Training Manager
R. Venci, Exam Author

U.S. Nuclear Regulatory Commission

B. Palagi, Senior Operations Engineer – Chief Examiner
R. Walton, Senior Reactor Analyst – Examiner
J. Seymour, Operations Engineer – Examiner

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, and Discussed

None

LIST OF DOCUMENTS REVIEWED

The following is a partial list of documents reviewed during the inspection. Inclusion on this list does not imply that the NRC inspectors reviewed the documents in their entirety, but rather that selected sections or portions of the documents were evaluated as part of the overall inspection effort. Inclusion of a document on this list does not imply NRC acceptance of the document or any part of it, unless this is stated in the body of the inspection report.

- 2016 Reactor and Senior Reactor Written Examination
- 2016 Reactor and Senior Reactor Operating Test

LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
CFR	<i>Code of Federal Regulations</i>
JPM	Job Performance Measure
NRC	U.S. Nuclear Regulatory Commission
PARS	Publicly Available Records System

SIMULATION FACILITY REPORT

Facility Licensee: Quad Cities Nuclear Power Station, Units 1 and 2

Facility Docket Nos: 50-254; 50-265

Operating Tests Administered: April 18 – April 28, 2016

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 10 CFR 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

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inspection in the NRC's Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site 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

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