



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 10, 2011

Mr. Michael J. Pacilio
Senior Vice President, Exelon Generation Company, LLC
President and Chief Nuclear Officer (CNO), Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2
NRC INITIAL LICENSE EXAMINATION REPORT 05000456/2011301(DRS);
05000457/2011301(DRS)

Dear Mr. Pacilio:

On July 12, 2011, the U. S. Nuclear Regulatory Commission (NRC) completed the initial operator licensing examination process for license applicants employed at your Braidwood Station, Units 1 and 2. The enclosed report documents the results of those examinations. Preliminary observations noted during the examination process were discussed on July 1, 2011, with Mr. M. Kanavos and other members of your staff. An exit meeting was conducted via telephone on August 4, 2011, between Mr. G. Dudek, Training Director, of your staff and Mr. B. Palagi, Senior 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 weeks of June 20, 2011 through June 30, 2011. The written examination was administered by Braidwood Station training department personnel on July 1, 2011. Eight Senior Reactor Operator and seven Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on August 4, 2011. Fifteen applicants passed all sections of their respective examinations and eight were issued Senior Operator licenses and seven were issued Operator licenses.

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

M. Pacilio

-2-

In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosures 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), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

Sincerely,

/RA by Raymond Keith Walton Acting for/

Hironori Peterson, Chief
Operations Branch
Division of Reactor Safety

Docket Nos. 50-456; 50-457
License Nos. NPF-72; NPF-77

Enclosures: 1. Operator Licensing Examination Report 05000456/2011301(DRS);
05000457/2011301(DRS)
w/Attachment: Supplemental Information
2. Simulation Facility Report

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U. S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No: 50-456; 50-457

License No: DPR-72; DPR-77

Report No: 05000456/2011301(DRS); 05000457/2011301(DRS)

Licensee: Exelon Generation Company, LLC

Facility: Braidwood Station, Units 1 and 2

Location: Braidwood, Illinois

Dates: June 20, 2011, through June 30, 2011

Inspectors: Bruce Palagi, Chief Examiner
Charles Phillips, Senior Operations Engineer
David Reeser, Operations Engineer

Approved by: Hironori Peterson, Chief
Operations Branch
Division of Reactor Safety

SUMMARY OF FINDINGS

ER 05000456/2011301(DRS); 05000457/2011301(DRS); 06/20/2011-06/30/2011;
Exelon Generation Company, LLC; Braidwood Station, Units 1 and 2; 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 9 - Supplement 1.

Examination Summary:

Fifteen applicants passed all sections of their respective examinations and eight were issued
Senior Operator licenses and seven were issued Operator licenses. (Section 40A5.1)

REPORT DETAILS

40A5 Other

.1 Initial Licensing Examinations

a. Examination Scope

The 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 9-Supplement 1, 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 May 31, 2011, with the assistance of members of the facility licensee's staff. During the week of June 20, 2011, 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 period of June 20, 2011 through June 30, 2011. The facility licensee administered the written examination on July 1, 2011.

b. Findings

(1) Written Examination

The NRC examiners determined that the written examination, as submitted 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 submitted 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 in 24 months electronically in the NRC Public Document Room or from the Publicly Available Records System component of NRC's document system (ADAMS).

On June 28, 2011, the licensee submitted documentation noting that there were no post examination comments for consideration by the NRC examiners when grading the written examination. The final as-administered examination and answer key, will be available in 24 months electronically in the NRC Public Document Room or from ADAMS.

The NRC examiners graded the written examination on July 26, 2011, 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 submitted 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 System component of NRC's document system (ADAMS).

The NRC examiners completed grading of the operating test on July 28, 2011.

(3) Examination Results

Eight applicants at the Senior Reactor Operator (SRO) level and seven applicants at the Reactor Operator (RO) level were administered written examinations and operating tests. All fifteen applicants passed all sections of their respective 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 10 CFR 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 of significance were discovered.

40A6 Meetings

.1 Debrief

The chief examiner presented the examination team's preliminary observations and findings on July 1, 2011, to Mark Kanavos, Plant Manager, and other members of the Braidwood Station Operations and Training Department staff. The chief examiner 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.

.2 Exit Meeting

The chief examiner conducted an exit meeting on August 4, 2011, with Gary Dudek, Training Director, via telephone.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION

KEY POINTS OF CONTACT

Licensee

M. Kanavos, Plant Manager
G. Dudek, Training Director
D. Stiles, Operations Training Manager
B. Keller, Operations Supervisor
B. Kempen, Examination Author
S. Russell, Corporate Operations Training
J. Smit, Operations Exam Facility Representative
D. Burton, Simulator Coordinator

NRC

B. Palagi, Chief Examiner
C. Phillips, Examiner
R. Reeser, Examiner

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened, Closed, and Discussed

None

LIST OF DOCUMENTS REVIEWED

None

LIST OF ACRONYMS USED

ADAMS	Agency-Wide Document Access and Management System
CFR	Code of Federal Regulations
DRS	Division of Reactor Safety
JPM	Job Performance Measures
NRC	U. S. Nuclear Regulatory Commission
RO	Reactor Operator
SRO	Senior Reactor Operator

M. Pacilio

-2-

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