



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

May 20, 2013

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

**SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2; NRC INITIAL LICENSE
EXAMINATION REPORT 05000456/2013301; 05000457/2013301**

Dear Mr. Pacilio:

On April 11, 2013, 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 April 4, 2013, with Mr. M. Kanavos and other members of your staff. An exit meeting was conducted by telephone on April 15, 2013, between Mr. D. Stiles of your staff and Mr. C. Zoia, Operations Engineer, to review the proposed final grading of the written examination for the license applicants. There were no post-exam comments for this exam.

The NRC examiners administered an initial license examination operating test during the weeks of March 25 and April 1, 2013. The written examination was administered by Braidwood Station training department personnel on April 5, 2013. Nine Senior Reactor Operator and four Reactor Operator applicants were administered license examinations. The results of the examinations were finalized on May 6, 2013. Thirteen applicants passed all sections of their respective examinations; nine were issued senior operator licenses and four were issued operator 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 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

M. Pacilio

-2-

System (PARS) component of 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 by D. McNeil 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 05000456/2013301; 05000457/2013301;
w/Attachment: Supplemental Information
2. Simulation Facility Report

cc w/encls: Distribution via ListServ™
Mr. D. Stiles, Training Director
Darren.stiles@exeloncorp.com

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

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

Report No: 05000456/2013301; 05000457/2013301

Licensee: Exelon Generation Company, LLC

Facility: Braidwood Station, Units 1 and 2

Location: Braidwood, IL

Dates: March 25, 2013, through April 11, 2013

Inspectors: C. Zoia, Operations Engineer
D. Reeser, Operations Engineer
C. Moore, Operations Engineer

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

SUMMARY OF FINDINGS

ER 05000456/2013301; 05000457/2013301; 03/25/2013 - 04/11/2013; 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

Thirteen applicants passed all sections of their respective examinations. Nine were issued Senior Operator licenses and four were issued Operator licenses. (Section 40A5.1)

REPORT DETAILS

4OA5 Other Activities

.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 February 25, 2013, 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 March 25, 2013, through April 4, 2013. The facility licensee administered the written examination on April 5, 2013.

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 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 is 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 April 11, 2013, 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 April 15, 2013, 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 6, 2013.

(3) Examination Results

Nine applicants at the Senior Reactor Operator level and four applicants at the Reactor Operator level were administered written examinations and operating tests. Thirteen 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, 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 significant findings were identified. However, two minor incidents were identified by the licensee; one prior to and one during exam administration. The first occurred prior to exam validation and involved a non-specific question about the extent of exam overlap allowed between the author of the certification exam and the author of the NRC exam. No exam compromise resulted. It was quickly recognized, however, to be in conflict with the licensee's process of having the certification exam be independent from the NRC exam. The discussion was disclosed, discussed with the NRC Chief Examiner, and documented in Action Request (AR) 01481275.

The second incident occurred between two simulator scenarios during the NRC exam. A Sequence of Events Recorder printout from the previous set was inadvertently left out, face down, on a desk where turnover for the oncoming crew was taking place. The material was identified by an applicant, who recognized that material on white paper was left on the desk, and slid it over to an NRC examiner standing nearby. No exam compromise occurred. The applicant did not read the material in accordance with the exam security policy to only view material on yellow paper during this exam. The incident was reviewed by the Training Director in a meeting with instructors as a near-miss incident, and documented on AR 01355926-22, OPEX reviews.

4OA6 Management Meetings

.1 Debrief

The Chief Examiner presented the examination team's preliminary observations and findings on April 4, 2013, to Mr. M. Kanavos and other members of the Braidwood Station Operations and Training Department staff.

.2 Exit Meeting

The Chief Examiner conducted an exit meeting on April 15, 2013, with Mr. D. Stiles, Training Director, by telephone. 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

M. Kanavos, Plant Manager
R. Stopka, Shift Operations Superintendent
A. Trespalacios, Operations Support Manager
D. Stiles, Training Director
K. Dovas, Operations Training Manager
P. Moodie, Operations Department
K. Norris, Training Instructor (Exam Author)

NRC

J. Benjamin, Senior Resident Inspector
C. Zoia, Operations Engineer
D. Reeser, Operations Engineer
C. Moore, Operations Engineer

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened/Closed

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 inspector 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.

- Action Request (AR) 01481275; NRC Examiner Discussion Regarding ILT Exam Security; February 28, 2013
- AR 01491019; Local Breaker Operation; April 9, 2013
- Issue Report (IR) 01499682; Potential Emergency Operating Procedure Change; April 9, 2013
- IR 01499685; AFW Control Guidance for 4 Faulted Steam Generators; April 9, 2013
- IR 01499650; BWAR 1-10-A7 IMPROVEMENT RECOMMENDED; April 9, 2013
- IR 01499675; BWOP CV-9 ENHANCEMENT RECOMMENDATION; April 9, 2013
- Procedure BwAP 340-1; Use of Procedures for Operating Department; Revision 26

LIST OF ACRONYMS USED

ADAMS	Agencywide Document Access and Management System
AR	Action Request
CFR	Code of Federal Regulations
DRS	Division of Reactor Safety
IR	Issue Report
JPM	Job Performance Measure
NRC	U.S. Nuclear Regulatory Commission
PARS	Publicly Available Records System

M. Pacilio

-2-

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