

August 9, 2004

Mr. Christopher M. Crane
President and Chief Nuclear Officer
Exelon Nuclear
Exelon Generation Company, LLC
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: BRAIDWOOD STATION, UNITS 1 AND 2
NRC INITIAL LICENSE EXAMINATION REPORT 05000456/2004301(DRS);
05000457/2004301(DRS)

Dear Mr. Crane:

On July 14, 2004, NRC examiners completed initial operator licensing examinations at your Braidwood Station. The enclosed report presents the results of the examination.

The NRC examiners administered initial license examination operating tests during the week of July 12, 2004, for three senior reactor operator applicants. Members of the Braidwood Station Training Department administered an initial license written examination on July 16, 2004, to the applicants. The results of the operating tests and written examinations were finalized on July 23, 2004. All applicants passed all portions of the operating test and written examination and were issued senior reactor operator licenses.

In accordance with 10 CFR Part 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 (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

C. Crane

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We will gladly discuss any questions you have concerning this examination.

Sincerely,

/RA by Bruce Palagi Acting for/

Roger D. Lanksbury, 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
05000456/2004301(DRS); 05000457/2004301(DRS)
2. Simulation Facility Report
3. SRO Written Examination Post Examination Comments w/Resolution
4. SRO Written Examinations and Keys

cc w/encls 1 & 2: Site Vice President - Braidwood Station
Plant Manager - Braidwood Station
Regulatory Assurance Manager - Braidwood Station
Chief Operating Officer
Senior Vice President - Nuclear Services
Vice President - Operations Support
Vice President - Licensing and Regulatory Affairs
Director Licensing
Manager Licensing - Braidwood and Byron
Senior Counsel, Nuclear, Mid-West Regional
Operating Group
Document Control Desk - Licensing
Assistant Attorney General
Illinois Department of Nuclear Safety
State Liaison Officer
Chairman, Illinois Commerce Commission

cc w/encls 1, 2, 3, & 4: D. Myers, Training Manager

C. Crane

-2-

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 Senior Vice President - Nuclear Services
 Vice President - Operations Support
 Vice President - Licensing and Regulatory Affairs
 Director Licensing
 Manager Licensing - Braidwood and Byron
 Senior Counsel, Nuclear, Mid-West Regional
 Operating Group
 Document Control Desk - Licensing
 Assistant Attorney General
 Illinois Department of Nuclear Safety
 State Liaison Officer
 Chairman, Illinois Commerce Commission

cc w/encls 1, 2, 3, & 4: D. Myers, Training Manager

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U. S. NUCLEAR REGULATORY COMMISSION

REGION III

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

Report No: 05000456/2004301(DRS); 05000457/2004301(DRS)

Licensee: Exelon Generation Company, LLC

Facility: Braidwood Station, Units 1 and 2

Location: 35100 S. Route 53
Suite 84
Braceville, IL 60407-9617

Dates: July 12 through July 16, 2004

Examiners D. McNeil, Chief Examiner
R. Walton, Examiner

Approved by: R. Lanksbury, Chief
Operations Branch

SUMMARY OF FINDINGS

ER 05000456/2004301, 05000457/2004301; 07/12/04 - 07/16/04; Braidwood Station, Units 1 & 2; Initial License Examination Report.

The announced operator licensing initial examination was conducted by regional NRC examiners in accordance with the guidance of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Draft.

Examination Summary

- Three senior reactor operator applicants were administered initial operator license examination operating tests and a written examination. All three applicants passed all portions of their respective examinations and were issued senior reactor operator licenses. (Section 4OA5.1)

REPORT DETAILS

4. OTHER ACTIVITIES (OA)

4OA5 Other

.1 Initial Licensing Examinations

a. Examination Scope

The NRC examiners conducted an announced operator licensing initial examination on July 12 through July 14, 2004. The facility's training staff administered an initial license written examination on July 16, 2004. The facility's training staff used the guidance established in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Draft, to prepare the operating test and written examination. Three senior reactor operator applicants were examined.

b. Findings

Written Examination

The licensee developed the written examination. During their initial review, the examiners determined that the examination, as submitted by the licensee, was within the range of acceptability expected for a proposed examination. During examination validation the week of June 14, 2004, examination changes agreed upon between the NRC and the licensee were incorporated according to the guidance contained in NUREG-1021. Five post-examination comments were submitted for the written examination. No written examination grades were changed as a result of the comments. The post examination comments and their resolution is documented in Enclosure 3, SRO Written Examination Post Examination Comments w/Resolution.

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. Examination changes, agreed upon between the NRC and the licensee, were made during the validation week in accordance with NUREG-1021 guidance.

Examination Results

Three senior reactor operator applicants were administered written examinations and operating tests for initial operator licensing. All three applicants passed all portions of their examinations and were issued senior reactor operator licenses.

.2 Examination Security

a. Scope

The examiners reviewed and observed the licensee's implementation of examination security requirements during the examination preparation and administration.

b. Findings

The licensee's implementation of examination security requirements during examination preparation and administration were acceptable and met the guidelines provided in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." No violations of 10 CFR 55.49 occurred during the examination preparation and administration.

40A6 Meetings

Exit Meeting

The chief examiner presented the examination team's preliminary observations and findings on July 14, 2004, to Mr. T. Joyce and other members of the Operations and Training Department staff. No proprietary items were identified during the administration of the examination nor during the exit meeting with the licensee. The licensee acknowledged the observations and findings presented.

ATTACHMENT: SUPPLEMENTAL INFORMATION

PARTIAL LIST OF PERSONS CONTACTED

Licensee

T. Joyce, Site Vice President, Braidwood Station
K. Polson, Plant Manager
R. Cameron, ILT/Exam Author
S. Deprest, Operations Training Program Specialist
G. Dudek, Operations Director
W. Dupuis, Training Director (Acting)
C. Gayheart, Operations SOS
R. Gayheart, Operations Training Manager
R. Gilbert, Bwd NOS Manager
P. Hippely, ILT Lead
E. Stefan, Regulatory Assurance Manager (Acting)

NRC

N. Shah, Resident Inspector, Braidwood Station

ITEMS OPENED, CLOSED AND DISCUSSED

Opened

None

Closed

None

Discussed

None

LIST OF ACRONYMS USED

ADAMS	Agency-Wide Document Access and Management System
DRS	Division of Reactor Safety
NRC	Nuclear Regulatory Commission
PARS	Publicly Available Records
RO	Reactor Operator
SRO	Senior Reactor Operator

SRO Written Examination Post Examination Comments w/Resolution

Question #	Comment	Resolution
14	In the questions stem, capitalize BATTERY BREAKER. It is the noun name of the component.	The NRC agreed. BATTERY BREAKER was capitalized in the final examination submitted to ADAMS and to INPO. No grades were changed since this component was recognized by all applicants during the examination.
30	In the last given item, insert "CC" between 1CC HX and Outlet. Also insert "CC side" between 1CC HX outlet in the first sentence of the question stem. This is a clarification to ensure accuracy in component description.	The NRC agreed. The letters "CC" were inserted between 1CC Hx and Outlet. "CC side" was inserted between HX and outlet in the stem of the question submitted to ADAMS and to INPO. No grades were changed since this information was recognized by all applicants during the examination.
43	After the word "OPEN" in the stem, insert the following: "(when NPSH falls below the actuation setpoint)" to ensure applicants understand that pressure has fallen below the appropriate setpoint.	The NRC agreed. The phrase was inserted in the appropriate location in the examination submitted to ADAMS and to INPO. The phrase was necessary since an NPSH alarm alone may not be enough to cause the valves to stroke. No grades were changed as a result of this change to the examination.
72	Change the correct answer (B) to read, "Aux Bldg (for U1 Vent Stack)." This more accurately reflects the correct description of this equipment. Use the abbreviation Bldg for distractors (c) and (d) for consistency.	The NRC agreed. The correct answer wording was changed in the examination submitted to ADAMS and INPO. One applicant missed this question, but admitted that even if the correct name was provided, he would have missed the question. No grades were changed as a result of making this change.
76	Change the phrase "conditions on" in the stem of the question to "sequence of events" to make the question more accurate.	The NRC agreed. The change more accurately reflects the intent of the question. The phrase was added to the examination submitted to ADAMS and INPO. No grades were changed as a result of the change of the question stem. All applicants recognized the information being tested.

WRITTEN EXAMINATIONS AND ANSWER KEY (SRO)

SRO Examination ADAMS Accession No. ML042170309