

Mary Ann

MAY 13 1993

Docket No. 50-456

Docket No. 50-457

Commonwealth Edison Company
ATTN: Mr. L. O. DelGeorge, Vice President
Nuclear Oversight and
Regulatory Services
Executive Towers West III
1400 Opus Place, Suite 300
Downers Grove, IL 60515

Dear Mr. DelGeorge:

SUBJECT: REQUALIFICATION EXAMINATION REPORT

During the week of April 19, 1993, the NRC administered requalification examinations to employees of your organization who operate your Braidwood Nuclear Power Station. At the conclusion of the examinations, any generic findings that evolved as a result of the examinations were discussed with those members of your staff identified in the enclosed report.

As a result of this evaluation of your requalification program it has been assigned an overall program rating of satisfactory in accordance with the criteria of NUREG-1021, ES-601.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter and the enclosures will be placed in the NRC Public Document Room.

Should you have any questions concerning this examination, please contact us.

Sincerely,

(Signature)

Mark A. Ring, Chief
Operations Branch

Enclosures:

1. Examination Report
No. 50-456/OL-93-01
2. Requalification Program
Evaluation Report
3. Simulation Facility
Fidelity Report

See Attached Distribution

RIII *yes*
deO
Osterholtz/cg
05/13/93

RIII
B
Burdick
05/13/93

Yes
RIII *fc*
for Farber
05/13/93

RIII
Ring
Ring
05/13/93

MAY 13 1993

Distribution

cc w/enclosures:

S. Berg, Site Vice President

K. Kofron, Station Manager

A. Haeger, Regulatory
Assurance Supervisor

D. Farrar, Nuclear Regulatory
Services Manager

OC/LFDCB

Resident Inspectors, Byron,
Braidwood, Zion

D. W. Cassel, Jr., Esq.

Richard Hubbard

J. W. McCaffrey, Chief, Public
Utilities Division

Robert Newmann, Office of Public
Counsel, State of Illinois Center
State Liaison Officer

Chairman, Illinois Commerce
Commission

A. R. Checca, Plant Training Manager

R. R. Assa, Project Manager, NRR

R. M. Gallo, Branch Chief, OLB

bcc: PUBLIC - IE42

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Report No. 50-456/OL-93-01

Docket Nos. 50-456; 50-457

Licenses No. NPF-72; NPF-77

Licensee: Commonwealth Edison Company
1400 Opus Place, Suite 300
Downers Grove, IL 60515

Facility Name: Braidwood Nuclear Power Station

Examination Administered At: Braidwood Nuclear Power Station

Examination Conducted: During the week of April 19, 1993

RIII Examiner:

D. Shepard

5/13/93
Date

Chief Examiner:

C. Osterholtz

5/13/93
Date

Approved By:

T. Burdick
T. Burdick, Chief
Operator Licensing Section 2

5/13/93
Date

Examination Summary

Examination administered during the week of April 19, 1993
(Report No. 50-456/OL-93-01)

Written and operating requalification examinations were administered to eight senior reactor operators (SROs) and four reactor operators (ROs) using the Alternative B methodology (two operators per one NRC evaluator).

Results: All crews satisfactorily passed the NRC requalification examination. Seven SROs and four ROs passed all sections of their examinations. One SRO failed the simulator portion of the examination. The licensee's requalification program is evaluated satisfactory in accordance with the program performance criteria in NUREG-1021, ES-601.

The following is a summary of the strengths and weaknesses noted during the performance of this examination.

Strength

- The materials developed by the licensee were used with no or only minor changes.

Weakness

- Crew ability to work as a team to diagnose and effectively mitigate problems encountered in the dynamic simulator examination.

Details on strengths and weaknesses are in Section 3.

REPORT DETAILS

1. Examiners

- *+C. Osterholtz, NRC, Chief Examiner
- *+D. Shepard, NRC

2. Persons Contacted

- * K. Kofron, Station Manager
- *+T. Chasensky, Simulator Supervisor
- *+A. Checca, Training Supervisor
- * D. Cooper, Operations Manager
- * K. Gerling, PWR Operations Training Supervisor
- *+W. McCue, Operations Supervisor
- +N. Sanborn, Instructor
- +W. Shear, Instructor
- * R. Stols, Support Services Director

U. S. Nuclear Regulatory Commission

- * M. Ring, Chief, Operations Branch, Region III
- * S. Dupont, Senior Resident Inspector
- +K. Bristow, Reactor Engineer, Region III

+Denotes those personnel present at the training exit meeting held April 22, 1993.

*Denotes those personnel present at the management exit meeting held April 23, 1993.

3. Regualification Training Program Observations

The following information is provided as input to the licensee's system approach to training (SAT) process. No response is required.

a. Written Examination

Strength

- The examinations were used as proposed by the facility with few exceptions.

Weakness

- One question had to be deleted from the Part "B" portion of the written (question No. 6 on both the R0 and SR0) examination due to an incorrect question revision implementation.

b. Dynamic Simulator Scenarios

Strength

- The scenarios were used as proposed by the facility with minor changes.

Weakness

- Communications between operators and the ability of operators to work together as a team. For example, one crew did not initiate a necessary emergency procedure transition based upon one operator reporting one indication regarding containment radiation. The crew had previously been trending this particular parameter as being abnormally high, yet no crew discussion took place when one operator reported it as normal. Another example occurred on a different crew when the SRO ordered emergency core cooling equipment secured during a large break loss of coolant accident. The operators complied with the order and did not question the activity until minutes later, resulting in a significant decrease in reactor vessel water level.

4. General

a. Training

The training staff provided excellent support during the examination process and worked well with the NRC examiners both during the prep and exam weeks. All facility examiners provided objective evaluations of the operators and were deemed satisfactory with respect to the criteria of NUREG-1021.

The following observations were made by the NRC concerning examination techniques:

- Some facility evaluators paraphrased the responses given by their candidates instead of verbatim repeat-backs.
- Some of the cues on the walkthrough exam were missed or given late, causing some slight confusion on the part of the candidates.
- An NRC examiner prevented a facility evaluator from inadvertently giving a candidate a JPM question with the answer printed on it.

b. Operations, Security, Radiation Protection

All plant support personnel encountered provided excellent support during the examination process. This contributed to the

examination week running timely and smoothly, helping to minimize operator stress.

5. Simulator Observations

Simulator discrepancies were identified. These discrepancies are noted in Enclosure 3.

6. Exit Meeting

A training exit meeting was held on April 22, 1993, and a management exit meeting was held on April 23, 1993. Those attending the meetings are listed in section 2 of this report. The following items were discussed during the exit meeting:

- Strengths and weaknesses noted in this report.
- The general observations noted in section 4.

The preliminary results of the NRC examiners were presented at the management exit meeting. The facility was informed that the final results would be documented in this report.

Enclosure 2

REQUALIFICATION PROGRAM EVALUATION REPORT

Facility: Braidwood Nuclear Power Station

Examiners: C. Osterholtz, D. Shepard

Dates of Evaluation: April 19 - 23, 1993

Areas Evaluated: Written, Oral, and Simulator

Examination Results:

	<u>RO</u> <u>Pass/Fail</u>	<u>SRO</u> <u>Pass/Fail</u>	<u>Total</u> <u>Pass/Fail</u>	<u>Evaluation</u> <u>(S or U)</u>
Written Examination	4/0	8/0	12/0	S
Operating Examination				
Oral	4/0	8/0	12/0	S
Simulator	4/0	7/1	11/1	S
Evaluation of facility written examination grading				S

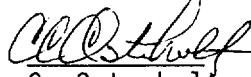
Crew Examination Results:

	<u>Crew 1</u> <u>Pass/Fail</u>	<u>Crew 2</u> <u>Pass/Fail</u>	<u>Crew 3</u> <u>Pass/Fail</u>	<u>Evaluation</u> <u>(S or U)</u>
<u>Operating Examination</u>	Pass	Pass	Pass	S

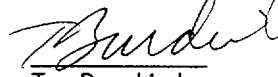
Overall Program Evaluation

Satisfactory

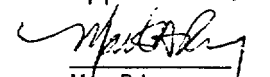
Submitted:


C. Osterholtz
Examiner
05/13/93

Forwarded:


T. Burdick
Section Chief
05/13/93

Approved:


M. Ring
Branch Chief
05/13/93

Enclosure 3

SIMULATION FACILITY REPORT

Facility Licensee: Braidwood Nuclear Power Station

Facility Licensee Docket Nos.: 50-456; 50-457

Operating Tests Administered On: April 19 - 21, 1993

This form is to be used only to report observations. These observations do not constitute audit or inspection findings and are not, without further verification and review, indicative of noncompliance with 10 CFR 55.45(b). These observations do not affect NRC certification or approval of the simulation facility other than to provide information that may be used in future evaluations. No licensee action is required in response to these observations.

While conducting the simulator portion of the operating tests, the following items were observed:

<u>ITEM</u>	<u>DESCRIPTION</u>
1. <u>Turbine Reset</u>	Turbine reset pushbutton did not light when required.
2. <u>RM-11</u>	Select button sometimes engaged twice when pressed once.
3. <u>Simulator Reboot</u>	The simulator had to be rebooted twice. Once towards the end of a crew dynamic after all pertinent operational observations were made, and a second time prior to examining the same crew on a subsequent scenario.