



**Commonwealth Edison**

Production Training Center  
36400 South Essex Road  
Wilmington, Illinois 60481

April 13, 1992

Dr. Thomas E. Murley, Director  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attn: Document Control Desk

Subject: Braidwood Units 1 & 2  
"Braidwood Simulator Facility"  
Certification of Simulator Facility-10CFR 55.45  
NRC Docket Nos. 50-456 and 50-457

Gentlemen:

The purpose of this letter is to submit information pursuant to 10CFR 55.45.b.5 in order to renew the certification of the Braidwood Simulation Facility. This submittal for certification renewal addresses both operating units at Braidwood Station with Braidwood Unit 1 serving as the reference plant. In the section titled "Reg. Guide 1.149 Requirements" of our certification report, the requirements for dual plant simulation facilities are evaluated and the results demonstrate that the Braidwood Simulator's performance compares favorably with each unit. In addition, steady state testing per ANSI/ANS-3.5, 1985 Appendix B was performed prior to the January, 1992, "ready for training" date. These tests compare the Braidwood simulator performance to Braidwood Unit 1 performance with favorable results.

The attachment to this letter contains two NRC Form 474's, ie. one for each docket number and two copies of the Renewal Certification Report, dated April 13, 1992. These documents certify the Braidwood Simulation Facility meets the Nuclear Regulatory Commission's regulations. The renewal of certification of the Braidwood Simulation Facility is being submitted approximately five months early because the simulator software was significantly upgraded in the fall of 1991. After the software upgrade, the simulator was declared "ready for training" on January 13, 1992. It is therefore Commonwealth Edison's intent to continue to utilize this facility to conduct operating tests for Braidwood operators.

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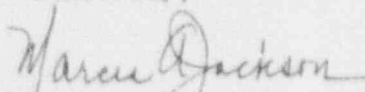
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The initial certification submittal dated October, 1988, certified the Braidwood Simulation Facility to both the Braidwood Station Units 1 & 2, and the Byron Station Units 1 & 2. This renewal does not address certification of the Braidwood Simulation Facility to Byron Units 1 & 2. Byron operators are currently tested on the Byron Simulation Facility which was certified to Byron Station Units 1 & 2 on August 27, 1991.

Please direct any questions that you may have to the Nuclear Licensing Department, 708-515-7287.

Sincerely,



Marcia A. Jackson  
Nuclear Licensing Administrator

Attachment

cc: A. Bert Davis - RIII

S. DuPont - Resident Inspector, Braidwood

R. Pulsifer - NRR Project Manager, Braidwood

## SIMULATION FACILITY CERTIFICATION

INSTRUCTIONS. This form is to be filed for initial certification, recertification (if required), and for any change to a simulation facility performance testing plan made after initial submittal of such a plan. Provide the following information, and check the appropriate box to indicate reason for submittal.

FACILITY Braidwood Station - Unit 1

DOCKET NUMBER  
50-456

LICENSEE Commonwealth Edison Co.

DATE 4/13/92

This is to certify that: 1. the above named facility is using a simulation facility consisting solely of a semi-synthetic simulator that meets the requirements of 10 CFR 55.45; 2. the simulation facility meets the guidance contained in ANSI/ANS 3.1-1986, as endorsed by NRC Regulatory Guide 1.149; and 3. documentation is available for NRC review in accordance with 10 CFR 55.45(c). If there are any exceptions to the certification of item 2 above, check here ☒ and describe fully on additional pages as necessary.

NAME (or other identification) AND LOCATION OF SIMULATION FACILITY  
Production Training Center, 34600 S. Essex Rd., Wilmington, IL 60481

☒ SIMULATION FACILITY PERFORMANCE TEST ABSTRACTS ATTACHED. (For performance tests conducted in the period ending with the date of this certification.)

DESCRIPTION OF PERFORMANCE TESTING COMPLETED (Attach additional pages) as necessary, and identify the item description being continued:

See Enclosure, Section A.3, Simulator Tests.  
See Enclosure, Attachment 2, Steady State/Normal Operation/  
Real Time/Valve Stroke Time/Transient Test  
Results.

☒ SIMULATION FACILITY PERFORMANCE TESTING SCHEDULE ATTACHED. (For the conduct of approximately 25% of performance tests per year for the four year period commencing with the date of this certification.)

DESCRIPTION OF PERFORMANCE TESTING TO BE CONDUCTED (Attach additional pages) as necessary, and identify the item description being continued:

See Enclosure, Appendix 6, Simulator Test Procedure and  
Malfunction Testing Schedule.

PERFORMANCE TESTING PLAN CHANGE. (For any modification to a performance testing plan submitted on a previous certification.)

DESCRIPTION OF PERFORMANCE TESTING PLAN CHANGE (Attach additional pages) as necessary, and identify the item description being continued:

N/A - Certification Renewal

RECERTIFICATION. Describe corrective actions taken, attach results of completed performance testing in accordance with 10 CFR § 55.45(b)(5)(iv). Attach additional pages as necessary, and identify the item description being continued.

N/A - Certification Renewal

Any false statement or omission in this document, including attachments, may be subject to civil and criminal sanctions. I certify under penalty of perjury that the information in this document and attachments is true and correct.

SIGNATURE AUTHORIZED REPRESENTATIVE

TITLE

Production Training Manager

DATE

4/13/92

In accordance with 10 CFR § 55.5, Communications, this form shall be submitted to the NRC as follows:

BY MAIL ADDRESSED TO: Director, Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

BY DELIVERY IN PERSON  
TO THE NRC OFFICE AT 7920 Norfolk Avenue  
Bethesda, MD

# SIMULATION FACILITY CERTIFICATION

U.S. NUCLEAR REGULATORY COMMISSION  
Approved by OMB  
7150-0130  
Issued 10-27-89

INSTRUCTIONS: This form is to be filed for initial certification, recertification (if required), and for any change to a simulation facility performance testing plan made after initial submittal of such a plan. Provide the following information, and check the appropriate box to indicate reason for submittal.

FACILITY Braidwood Station - Unit 2

DOCKET NUMBER

BD 457

LICENSEE Commonwealth Edison Co.

DATE

4/13/92

This is to certify that: 1. The above named facility is using a simulation facility consisting solely of a state-of-the-art simulator that meets the requirements of 10 CFR § 55.46; 2. The simulation facility meets the guidelines established in ANSI/ANS 3.3, 1985, as approved by NRC Regulatory Guide 1.14R and 2.02; and 3. A certification is available for NRC review in accordance with 10 CFR § 55.46(b)(3). If there are any exceptions to the certification of item 2 above, attach them to this form and describe them on additional pages as necessary.

NAME (or other identification) AND LOCATION OF SIMULATION FACILITY

Production Training Center, 36400 S. Essex Rd., Wilmington, IL 60481

☒ SIMULATION FACILITY PERFORMANCE TEST ABSTRACTS ATTACHED. (For performance tests conducted in the period ending with the date of this certification)

DESCRIPTION OF PERFORMANCE TESTING COMPLETED (Attach additional pages as necessary, and identify the item description being continued)

See Enclosure, Section A.3, Simulator Tests.  
See Enclosure, Attachment 1, Reg. Guide 1.149 Requirements  
for Dual Plant Simulation Facility.  
See Enclosure, Attachment 2, Steady State/Normal Operations/  
Real Time/Valve Stroke Time/Transient Test Results.

☒ SIMULATION FACILITY PERFORMANCE TESTING SCHEDULE ATTACHED. (For the conduct of approximately 20% of performance tests per year for the four year period commencing with the date of this certification)

DESCRIPTION OF PERFORMANCE TESTING TO BE CONDUCTED (Attach additional pages as necessary, and identify the item description being continued)

See Enclosures, Appendix 6, Simulator Test Procedure and  
Malfunction Testing Schedule.

PERFORMANCE TESTING PLAN CHANGE. (For any modification to a performance testing plan submitted on a previous certification)

DESCRIPTION OF PERFORMANCE TESTING PLAN CHANGE (Attach additional pages as necessary, and identify the item description being continued)

N/A - Certification Renewal

RECERTIFICATION (Describe corrective actions taken, attach results of completed performance testing in accordance with 10 CFR § 55.46(b)(3)(iv). Attach additional pages as necessary, and identify the item description being continued)

N/A - Certification Renewal

Any false statement or omission in this document, including attachments, may be subject to civil and criminal sanctions. I certify under penalty of perjury that the information in this document and attachments is true and correct.

SIGNATURE - AUTHORIZED REPRESENTATIVE

TITLE

Production Training Manager

DATE

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