June 9, 2000

Dr. Steven S. Koblik, President
Reed College
3203 SE Woodstock Blvd.
Portland, Oregon 97202

SUBJECT: INITIAL EXAMINATION REPORT NO. 50-288/OL-00-01

Dear Dr. Koblik:

During the week of May 1, 2000, the NRC administered examinations to employees of your facility who had applied for a license to operate your Reed College Reactor. The examination was conducted in accordance with NUREG-1478, "Non-Power Reactor Operator Licensing Examiner Standards," Revision 1. At the conclusion of the examination, the examination questions and preliminary findings were discussed with those members of your staff identified in the enclosed report.

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. The NRC is forwarding the individual grades to you in a separate letter which will not be released publicly. Should you have any questions concerning this examination, please contact Patrick Isaac at 301-415-1019.

Sincerely,

/RA/

Ledyard B. Marsh, Chief
Events Assessment, Generic Communications
and Non-Power Reactors Branch
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

Docket No. 50-288

Enclosures: 1. Initial Examination Report
No. 50-288/OL-00-01
2. Examination and answer key

cc w/enclosures:
Please see next page

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DISTRIBUTION:

PUBLIC	REXB r/f
PIsaac	LMarsh
MMendonca, PM	DMatthews
Facility File (EBarnhill)	LTremper, LFDCB (T9-E10)

ADAMS ACCESSION #: ML003716857 **TEMPLATE #: NRR-074**

OFFICE	DIPM:IOLB		REXB:CE		REXB:BC	
NAME	EBarnhill		PIsaac		LMarsh	
DATE	05/ 25 /2000		05/ 23 /2000		06/ 09 /2000	

C = COVER **E = COVER & ENCLOSURE** **N = NO COPY**

OFFICIAL RECORD COPY

cc:

Mayor of City of Portland
1220 Southwest 5th Avenue
Portland, OR 97204

David Stewart-Smith, Administrator
Oregon Office of Energy
Energy Resources Division
625 Marion Street, NE
Salem, OR 97310

U. S. NUCLEAR REGULATORY COMMISSION
OPERATOR LICENSING INITIAL EXAMINATION REPORT

REPORT NO.: 50-288/OL-00-01

FACILITY DOCKET NO.: 50-288

FACILITY LICENSE NO.: R-112

FACILITY: Reed College

EXAMINATION DATES: 05/01 - 05/2000

EXAMINER: Patrick Isaac, Chief Examiner

SUBMITTED BY: ***/RA/*** 05/16/2000
Patrick Isaac, Chief Examiner Date

SUMMARY:

During the week of May 1, 2000, NRC administered Operator Licensing Examinations to 12 Reactor Operator (RO) and two Senior Reactor Operator Upgrade (SROU) candidates. The candidates passed all portions of the examinations.

REPORT DETAILS

1. Examiners:

Paul V. Doyle
Patrick Isaac, Chief Examiner

2. Results:

	RO PASS/FAIL	SRO PASS/FAIL	TOTAL PASS/FAIL
Written	**12/0**	**2/0**	**14/0**
Operating Tests	**12/0**	**2/0**	**14/0**
Overall	**12/0**	**2/0**	**14/0**

3. Exit Meeting:

Mr. Ryan Gaffney, Assistant Director, REED College Reactor
Patrick Isaac, Chief Examiner

Following his review of the written examination, Mr. Gaffney requested that, due to a recent change to the facility, question C.006 of the written examination be deleted from the examination. The NRC examiner agreed with the request and the examination answer key was modified accordingly.

DOCUMENT NAME: G:\REXB\ISAAC\REEDEXAMRPT2000.wpd DATE: 6/12/00

ORIGINATOR: PISAAC

TYPIST:

SUBJECT: INITIAL EXAMINATION REPORT NO. 50-288/OL-00-01

	NAME	DATE
1.	P. Isaac	05/ /00
2.	E. Barnhill	05/ /00
3.	L. Marsh	05/ /00
4.	Secretary (DISPATCH)	05/ /00

PLEASE DO NOT REMOVE THIS SHEET FROM THE PACKAGE

CAN THIS DOCUMENT BE DELETED? YES _X_ NO ___

SHOULD THIS DOCUMENT BE STORED ON A DISK? YES ___ NO____

U. S. NUCLEAR REGULATORY COMMISSION
NON-POWER INITIAL REACTOR LICENSE EXAMINATION

FACILITY: Reed

REACTOR TYPE: TRIGA

DATE ADMINISTERED: 2000/05/01

REGION: IV

CANDIDATE: _____

INSTRUCTIONS TO CANDIDATE:

Answers are to be written on the answer sheet provided. Attach the answer sheets to the examination. Points for each question are indicated in parentheses for each question. A 70% in each section is required to pass the examination. Examinations will be picked up three (3) hours after the examination starts.

_____
Candidate's Signature

ENCLOSURE 2

020 a19b a18b a17b a16b a15b a14b a13b a12b a11b a10b a09b a08b a07b a06b a05b a04b a03b a02b a01b a

(***** END OF CATEGORY A *****)

ANSWER S

020 0a19b 0a18b 0a17b 0a16 0a15b 0a14b 0a13b 0a12b 0a11b 0a10b 0a09b 0a08b 0a07b 0a06b 0a05b 0a04b 0a03b 0a02b 0a01b

(***** END OF CATEGORY B *****)

ANSWER S

018

(********** END OF EXAMINATION **********)

DELETED

(***** END OF CATEGORY C *****)

A N S W E R S

12.

11.

10.

9.

8.

7.

6.

5.

4.

3.

2.

1. During the adm

There a

NRC RULES AND GUIDELINES FOR LICENSE EXAMINATIONS

d. c. b. a.

d. c. b. a. Which of the following is the

Amount of

d. c. b. a. wo[illegible] is a co[illegible]

As R[illegible]

d. c. b. a. In a QUESTION 116 (1.00) moving a one

A sudden

d. c. b. a. spe

1 to 3 5 to 8 12 and

(***** END OF CATEGORY A *****)

d. c. b. a. ret

Must

d. c. b. a. A system is defined as

a function

d. c. b. a. The o

Rod R

d. Argon

c. Xenon

b. Tritium

a. Nitrogen

[illegible]

a. [illegible]

b. [illegible]

c. [illegible]

d. [illegible] Nitrogen-16

1. Neutron survey

2. Frisk for personnel contamination

3. Routine β-γ survey (Daily)

4. Emergency β-γ survey (High Range)

d. c. b. a.

(***** END OF CATEGORY B *****)

d. c. b. a. fol

To in

d. c. b. a. hol

To all

DELETED

d. c. b. a.

d. c. b. a. Which of the following does not [illegible]

Count Pulse Channel).

12 hours. 6 hours. 3 hours. 1 hour.

Column A

GSM APM CAM RAM

4. Gaseous Pollutants Only 3. Radioactive Gases 2. Particulates Only

Column B

d. c. b. a. this

Break

Column B

4. 3. 2. 1.

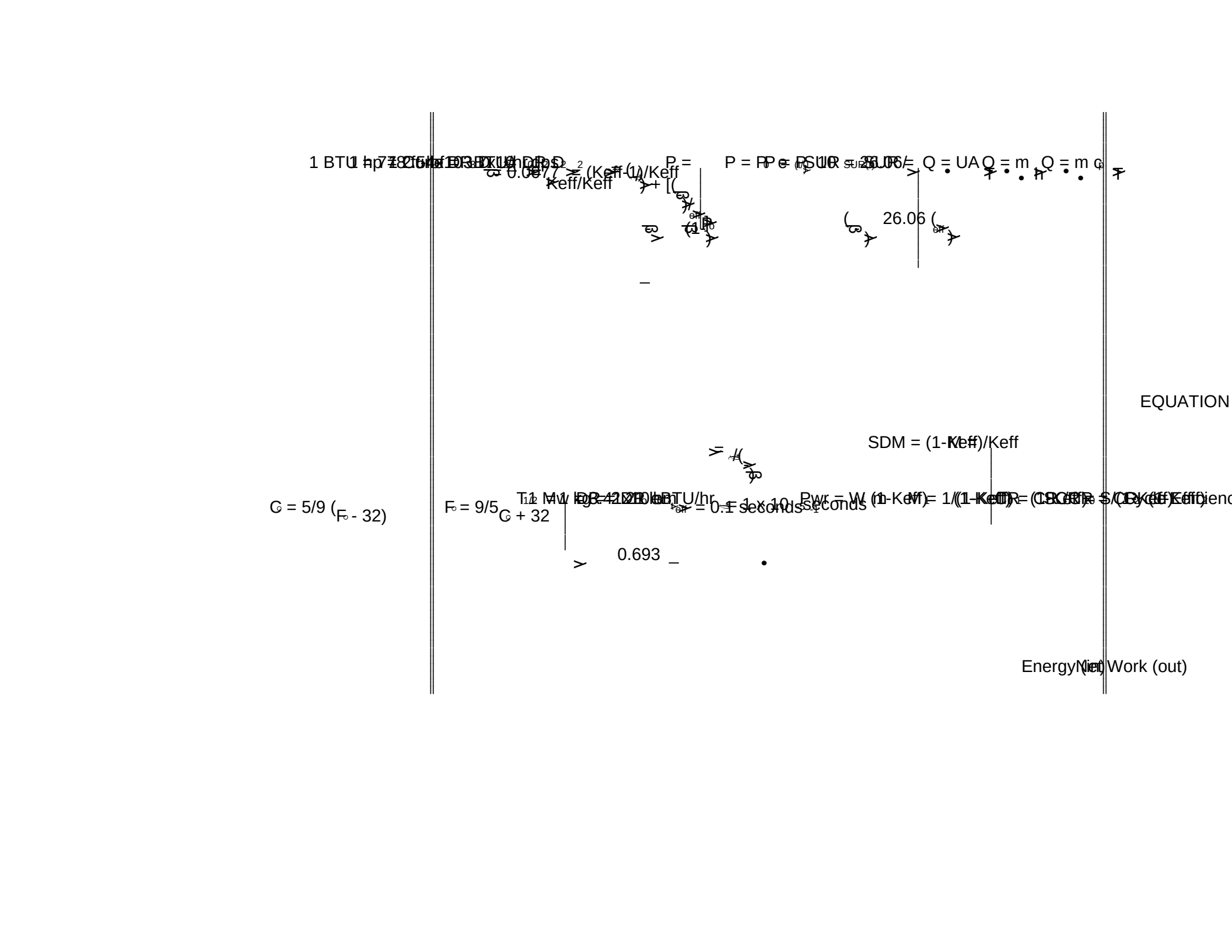
bott

d. c. b. a. If the [illegible] below, [illegible]

Continue [illegible]

(********** END OF EXAMINATION **********)

(***** END OF SECTION C *****)


EQUATION
SDM = (1-Keff)/Keff
Energy (net) Work (out)

(***** END OF CATEGORY A *****)

d ANSWER

10 mr 4 hr

d ANSWE

2 3 4

SOFTWARE ENGINEERING

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(********** END OF EXAMINATION **********)

(***** END OF SECTION C *****)