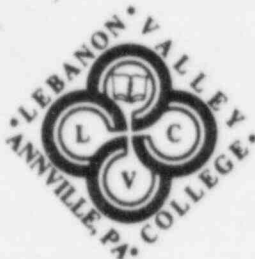


physics



lebanon valley college • annville, pa. 17003 • 717-867-4411

August 12, 1985

U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, PA 19406

ATTN: John E. Glenn, Ph.D., Chief  
Nuclear Materials Section B  
Division of Engineering and Technical Programs

Dear Dr. Glenn:

Re: License No. SNM-1914  
Docket No. 070-02978  
Control No. 21719

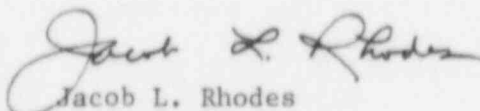
In Lebanon Valley College's Materials License for sealed plutonium sources (copy attached), under item 12 I am named as the person supervising the use of the licensed material.

I am retiring from the faculty of Lebanon Valley College, and we therefore desire to amend item 12 of the license by replacing my name with the name Barry L. Hurst, Ph.D. Dr. Hurst is the new chairman of the LVC Department of Physics. A resume' of his educational background and pertinent work experience is included on a separate sheet.

We thank you for your attention to this matter.

8511180761 850916  
REG1 LIC30  
SNM-1914 PDR

Sincerely,

  
Jacob L. Rhodes  
Department of Physics  
Lebanon Valley College

Encls 60: AUG 26 1985

RECEIVED

bt

Aug-24-1985

Applicant.....
Check No.....
Amount Paid.....
Type of Fee.....
Date Check Paid.....
Received By: <i>J. Rhodes</i>

FEE EXEMPT

"OFFICIAL RECORD COPY"

04269

ML10

AUG 19 1985

Barry L. Hurst, Chairman  
Department of Physics  
Lebanon Valley College

B.S., Physics, Juniata College 1972

Ph.D., Physics, University of Delaware 1982

Research, Teaching Assistant, Univ. of Delaware 1973-1980

Instructor in Physics, Univ. of Delaware 1980-82

Assistant Professor of Physics, Lebanon Valley College 1982-present

Chairman, Dept. of Physics, Lebanon Valley College 1985-present

Dr. Hurst has been teaching General Physics, Experimental Physics and Atomic and Nuclear Physics at Lebanon Valley College, and for the last two years has directed laboratory work in atomic and nuclear physics including the use of the sealed plutonium-beryllium sources in neutron activation and radiation analysis under the supervision of Dr. Rhodes. He is familiar with the procedures and regulations regarding the use of these licensed sources.

*Janet L. Rhodes*

MATERIALS LICENSE  
SUPPLEMENTARY SHEET

License number

SNM-1914

Docket or Reference number

070-02978

(SNM-520)

(continued)

## CONDITIONS

13. A. (1) Each sealed source containing licensed material, other than Hydrogen 3, with a half-life greater than thirty days and in any form other than gas shall be tested for leakage and/or contamination at intervals not to exceed six months. In the absence of a certificate from a transferor indicating that a test has been made within six months prior to the transfer, a sealed source received from another person shall not be put into use until tested.
- (2) The periodic leak test required by this condition does not apply to sealed sources that are stored and not being used. The sources excepted from this test shall be tested for leakage prior to any use or transfer to another person unless they have been leak tested within six months prior to the date of use or transfer.
- B. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. The test sample shall be taken from the sealed source or from the surfaces of the device in which the sealed source is permanently mounted or stored on which one might expect contamination to accumulate. Records of leak test results shall be kept in units of microcuries and maintained for inspection by the Commission.
- C. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the licensee shall immediately withdraw the sealed source from use and shall cause it to be decontaminated and repaired or to be disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the test with the U. S. Nuclear Regulatory Commission, Region I, 631 Park Avenue, King of Prussia, Pennsylvania 19406, describing the equipment involved, the test results, and the corrective action taken.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically authorized by the Commission or an Agreement State to perform such services.
14. Sealed sources containing licensed material shall not be opened.
15. Except for plutonium contained in a medical device designed for individual human application, no plutonium, regardless of form, shall be delivered to a carrier for shipment by air transport or transported in an aircraft by the licensee except in packages the design of which the NRC has specifically approved for transport of plutonium by air.
16. Except as specifically provided otherwise by this license, the licensee shall possess and use licensed material described in Items 6, 7, and 8 of this license in accordance with statements, representations, and procedures contained in application dated December 15, 1982. The Nuclear Regulatory Commission's regulations shall govern the licensee's statements in applications or letters, unless the statements are more restrictive than the regulations.

For the U.S. Nuclear Regulatory Commission

Date

JAN 28 1983

By

Nuclear Materials and Safeguards Branch  
Region I

King of Prussia, Pennsylvania 19406

## MATERIALS LICENSE

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter 1, Parts 30, 31, 32, 33, 34, 35, 36, 40 and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer by product, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s); and to import such byproduct and source material. This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

Licensee		
1. Lebanon Valley College	3. License number	SMP-1914
2. Annville, Pennsylvania 17003	4. Expiration date	February 29, 1988
	5. Docket or Reference No.	070-02978 (SMP-520)
6. Byproduct, source, and/or special nuclear material	7. Chemical and/or physical form	8. Maximum amount that licensee may possess at any one time under this license
A. Plutonium 239	A. Sealed sources (Mound Laboratories)	A. 50 grams as four (4) Pu-Be neutron sources
B. Plutonium 238/ Plutonium 239	B. Electroplated Alpha Sources	B. 0.01 microcurie
9. Authorized use		
A. and B. To be used for laboratory experiments, instrument calibration and student instruction.		

## CONDITIONS

10. Licensed material shall be used only at the licensee's Nuclear Physics Laboratory, Annville, Pennsylvania.
11. The licensee shall comply with the provisions of Title 10, Chapter 1, Code of Federal Regulations, Part 19, "Notices, Instructions and Reports to Workers; Inspections" and Part 20, "Standards for Protection Against Radiation."
12. Licensed material shall be used by, or under the supervision of, Jacob L. Rhodes, Ph.D.

BETWEEN: William O. Miller, Chief  
License Fee Management Branch  
Office of Administration

John E. Glenn, Chief  
Nuclear Materials Section B  
Division of Engineering and  
Technical Programs

LICENSE FEE TRANSMITTAL

A. REGION

I

Fee Exempt

1. APPLICATION ATTACHED

Applicant/Licensee: Lebanon Valley College

Application Dated: 8/12/85

Control No.: 04269

License No.: SNM - 1914

2. FEE ATTACHED

Amount: 0

Check No.: 0

3. COMMENTS

Signed Brenda Platchek

Date 8/20/85

22/20

B. LICENSE FEE MANAGEMENT BRANCH

1. Fee Category and Amount: EX 1 K

2. Correct Fee Paid. Application may be processed for:

Amendment ✓

Renewal       

License       

2/88

Signed Rita Ricques

Date 8/30/85

1/90