

Estimated burden per response to comply with this mandatory collection request: 4.4 hours. Submittal of the application is necessary to determine that the applicant is qualified and that adequate procedures exist to protect the public health and safety. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to [infocollects@nrc.gov](mailto:infocollects@nrc.gov), and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0120), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

## APPLICATION FOR MATERIAL LICENSE

**INSTRUCTIONS:** SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES OF THE ENTIRE COMPLETED APPLICATION TO THE NRC OFFICE SPECIFIED BELOW.

**APPLICATION FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH:**

DIVISION OF INDUSTRIAL AND MEDICAL NUCLEAR SAFETY  
OFFICE OF NUCLEAR MATERIALS SAFETY AND SAFEGUARDS  
U.S. NUCLEAR REGULATORY COMMISSION  
WASHINGTON, DC 20555-0001

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS:**

**IF YOU ARE LOCATED IN:**

ALABAMA, CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, FLORIDA, GEORGIA, KENTUCKY, MAINE, MARYLAND, MASSACHUSETTS, MISSISSIPPI, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, NORTH CAROLINA, PENNSYLVANIA, PUERTO RICO, RHODE ISLAND, SOUTH CAROLINA, TENNESSEE, VERMONT, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, SEND APPLICATIONS TO:

LICENSING ASSISTANCE TEAM  
DIVISION OF NUCLEAR MATERIALS SAFETY  
U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406-1415

**IF YOU ARE LOCATED IN:**

ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:

MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
2443 WARRENVILLE ROAD, SUITE 210  
LISLE, IL 60532-4352

ALASKA, ARIZONA, ARKANSAS, CALIFORNIA, COLORADO, HAWAII, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA, NEVADA, NEW MEXICO, NORTH DAKOTA, OKLAHOMA, OREGON, PACIFIC TRUST TERRITORIES, SOUTH DAKOTA, TEXAS, UTAH, WASHINGTON, OR WYOMING, SEND APPLICATIONS TO:

NUCLEAR MATERIALS LICENSING BRANCH  
U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
611 RYAN PLAZA DRIVE, SUITE 400  
ARLINGTON, TX 76011-4005

PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERIAL IN STATES SUBJECT TO U.S. NUCLEAR REGULATORY COMMISSION JURISDICTIONS.

**1. THIS IS AN APPLICATION FOR (Check appropriate item)**

☐

A. NEW LICENSE

☐

B. AMENDMENT TO LICENSE NUMBER

☒

C. RENEWAL OF LICENSE NUMBER

37-28583-02

**2. NAME AND MAILING ADDRESS OF APPLICANT (Include ZIP code)**

Washington & Jefferson College  
60 S. Lincoln Street  
Washington, PA 15301

**3. ADDRESS WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED**

Thistle Hall  
Washington & Jefferson College  
60 S. Lincoln Street  
Washington, PA 15301

**4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION**

Dr. Joel W. Cannon

**TELEPHONE NUMBER**

724-223-6146

SUBMIT ITEMS 5 THROUGH 11 ON 8-1/2 X 11" PAPER. THE TYPE AND SCOPE OF INFORMATION TO BE PROVIDED IS DESCRIBED IN THE LICENSE APPLICATION GUIDE

**5. RADIOACTIVE MATERIAL**

a. Element and mass number; b. chemical and/or physical form; and c. maximum amount which will be possessed at any one time.

**6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.**

**7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING EXPERIENCE.**

**8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.**

**9. FACILITIES AND EQUIPMENT.**

**10. RADIATION SAFETY PROGRAM.**

**11. WASTE MANAGEMENT.**

**12. LICENSE FEES (See 10 CFR 170 and Section 170.31)**

**FEE CATEGORY**

AMOUNT  
ENCLOSED \$

**13. CERTIFICATION. (Must be completed by applicant)** THE APPLICANT UNDERSTANDS THAT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE BINDING UPON THE APPLICANT.

THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF OF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PARTS 30, 32, 33, 34, 35, 36, 39, AND 40, AND THAT ALL INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF THEIR KNOWLEDGE AND BELIEF.

WARNING: 18 U.S.C. SECTION 1001 ACT OF JUNE 25, 1948 62 STAT. 749 MAKES IT A CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR REPRESENTATION TO ANY DEPARTMENT OR AGENCY OF THE UNITED STATES AS TO ANY MATTER WITHIN ITS JURISDICTION.

**CERTIFYING OFFICER - TYPED/PRINTED NAME AND TITLE**

Dr. Joel W. Cannon, Assoc. Prof. & RSO

**SIGNATURE**

Joel W. Cannon

**DATE**

12/7/05

### FOR NRC USE ONLY

TYPE OF FEE	FEE LOG	FEE CATEGORY	AMOUNT RECEIVED	CHECK NUMBER	COMMENTS
			\$		
APPROVED BY				DATE	



WASHINGTON  
& JEFFERSON COLLEGE

*Department of Physics*

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December 7, 2005

Licensing Assistance Section  
Division of Nuclear Materials Safety  
U. S. Nuclear Regulatory Commission, Region I  
475 Allendale Road  
King of Prussia, PA 19406-1415

Dear Sir or Madam:

This is an application for the renewal of license 37-28583-02. The applicant is Washington and Jefferson College. This letter supercedes previous application materials (which list different instrumentation and personnel). Listed below are the College's responses to the relevant item numbers in NRC Form 313.

5. The special nuclear material consists of CS-137 contained in a type 193 capsule manufactured by Isotope Products laboratory, Burbank, CA. The source is CsCl in a metallic matrix, doubly encapsulated in stainless steel. The activity is 10 millicuries. The source is stored in a lead pig in a locked room.
6. The source is currently in storage-only status. When not in storage-only status, it is used for Compton scattering experiments in advanced undergraduate laboratories. All students working on the Compton scattering experiments will receive instruction in the principles and practice of radiation safety.
7. Washington and Jefferson College's Radiation Safety Officer (RSO) is Associate Professor of Physics Joel W. Cannon. Dr. Cannon possesses a Master of Engineering in Nuclear Engineering from the University of Virginia, and a Ph.D., in Physics from the University of Illinois at Urbana Champaign. In addition, he worked for 6 years in the field of nuclear reactor safety at Idaho National Engineering Laboratory (prime contractor: EG&G Idaho) where he received training in the principles and practice of radiation safety. He also received training in the principles and practice of radiation safety while a graduate student in nuclear engineering at the University of Virginia.

In addition to the RSO, the following personnel are authorized to have access to the source. They are listed along with their qualifications.

William G. Spoeri, Professor of Physics

MACT, Ed.D., University of Tennessee

Experience: Training program – special training division, ORINS, Oak Ridge, Tennessee.

Instructor in nuclear physics class and lab at Washington and Jefferson College.

William S. Sheers, Professor of Physics

M.S. West Virginia University, Ph.D., University of New Mexico

Experience: Training programs – Brookhaven National Laboratory, Los Alamos National Laboratory, Instructor in physics lab at Washington and Jefferson College

9. The source is stored in a lead pig in a locked room.
10. The department possesses the Model E-120 Eberline survey meter listed in previous license applications, but prefers to use the Ludlum Model 3 Survey meter for monitoring radiation levels. This instrument is calibrated annually by Applied Health Physics, Inc., 2986 Industrial Blvd., Bethel Park, PA 15102. When not in storage-only status, leak tests are performed every six months with a wipe test kit supplied by Applied Health Physics, Inc., 2986 Industrial Blvd., Bethel Park, PA 15102. Applied Health Physics, Inc. holds NRC license 37-09135-01 for their leak testing activities. While in storage-only status, leak tests are performed at intervals not to exceed 10 years.

Yours truly,



Joel W. Cannon

Radiation Safety Officer and Associate Professor

Department of Physics

Washington and Jefferson College

cc: T. Haring-Smith  
M. Pettersen  
W. Sheers  
W. Spoeri

This is to acknowledge the receipt of your letter/application dated

12/7/2005, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Renew 37-28583-02 There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 138079.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.