

# 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.**

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

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20545

**ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS. IF YOU ARE LOCATED IN:**

CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND,  
MASSACHUSETTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,  
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIALS SAFETY SECTION B  
475 ALLENDALE ROAD  
KING OF PRUSSIA, PA 19406

ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA,  
PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR  
WEST VIRGINIA, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION II  
NUCLEAR MATERIALS SAFETY SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30333

**IF YOU ARE LOCATED IN:**

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION III  
MATERIALS LICENSING SECTION  
799 ROOSEVELT ROAD  
GLEN ELLYN, IL 60137

ARKANSAS, COLORADO, IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,  
NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH,  
OR WYOMING, SEND APPLICATIONS TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION IV  
MATERIAL RADIATION PROTECTION SECTION  
611 RYAN PLAZA DRIVE, SUITE 1000  
ARLINGTON, TX 76011

ALASKA, ARIZONA, CALIFORNIA, HAWAII, NEVADA, OREGON, WASHINGTON,  
AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS  
TO:

U.S. NUCLEAR REGULATORY COMMISSION, REGION V  
NUCLEAR MATERIALS SAFETY SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

030-14864



**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 JURISDICTION.**

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

A. NEW LICENSE

B. AMENDMENT TO LICENSE NUMBER \_\_\_\_\_

C. RENEWAL OF LICENSE NUMBER 19-18331-01 Re 030-14864

2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)

Department of the Treasury  
Bureau Alcohol, Tobacco and Firearms  
1401 Research Blvd. Rockville, MD 20850

3. ADDRESS(ES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.

Bureau Alcohol, Tobacco and Firearms National Laboratory Center 1401 Research Blvd. Rockville, MD 20850	Bureau Alcohol, Tobacco and Firearms Bldg. 233 Naval Station Treasure Island, CA 94130
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4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION

WILLIAM D. KINARD (ROCKVILLE)	GEO. PETERSON (S.F.)
TELEPHONE NUMBER	301-294-0420 415-556-7040

**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.**

<p>5. RADIOACTIVE MATERIAL</p> <p>a. Element and mass number, b. chemical and/or physical form and c. maximum amount which will be possessed at any one time.</p>	<p>6. PURPOSE(S) FOR WHICH LICENSED MATERIAL WILL BE USED.</p>				
<p>7. INDIVIDUAL(S) RESPONSIBLE FOR RADIATION SAFETY PROGRAM AND THEIR TRAINING AND EXPERIENCE.</p>	<p>8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREAS.</p>				
<p>9. FACILITIES AND EQUIPMENT.</p>	<p>10. RADIATION SAFETY PROGRAM.</p>				
<p>11. WASTE MANAGEMENT.</p>	<p>12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 70%;">FEE CATEGORY</td> <td style="width: 30%;">AMOUNT ENCLOSED \$</td> </tr> <tr> <td>EXEMPTED</td> <td></td> </tr> </table>	FEE CATEGORY	AMOUNT ENCLOSED \$	EXEMPTED	
FEE CATEGORY	AMOUNT ENCLOSED \$				
EXEMPTED					

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, 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.

SIGNATURE—CERTIFYING OFFICER	TYPED/PRINTED NAME	TITLE	DATE
	WILLIAM D. KINARD	FORENSIC CHEMIST	9/25/88

8912060171 890829  
REG 1 LIC 30  
19-18331-01 PDR

FOR NRC USE ONLY			
TYPE OF FEE	FEE LOG	FEE CATEGORY	COMMENTS
		FEE EXEMPT	
AMOUNT RECEIVED		CHECK NUMBER	APPROVED BY
			DATE

## 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. 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. Nickel 63	A. Foils contained in Elscint Explosives Model EXD-2 detector cells	A. Not to exceed 15 millicuries per foil
B. Hydrogen 3	B. Foils contained in Hydronautics Vapor Trace Analyzers	B. Not to exceed 15 millicuries per foil
C. Nickel 63	C. Foil contained in Perkin-Elmer Model 330-0119 detector cells	C. Not to exceed 15 millicuries per foil
D. Nickel 63	D. Foil contained in Victoreen Instrument Division Model 4008-4-15 detector cells	D. Not to exceed 15 millicuries per foil
E. Nickel 63	E. Foils contained in Perkin-Elmer Model 009-0282 detector cell	E. Not to exceed 15 millicuries per foil
F. Hydrogen 3	F. Titanium tritide foils contained in Sentex Sensing Technology, Inc. Model 50319 Detector Cell	F. Not to exceed 150 millicuries per foil or 6,000 millicuries total

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

For use in gas chromatographs for sample analysis.  
 For use in analyzers for tracer studies  
 C. through E. For use in gas chromatographs for sample analysis.  
 For use in explosive detectors, Scanex Jr. #60k-139.

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

WILLIAM D. KINARD (ATF LABORATORY-ROCKVILLE), (JOHN MOOWEN ATLANTA LABORATORY)  
 GEORGE PETERSON (SAN FRANCISCO LABORATORY).

FORENSIC CHEMISTS AND FIREARMS SPECILIST, RESPECTIVELY, EXPERIENCED WITH RADIOACTIVE MATERIALS, HEALTH PHYSICS MONITORING AND GAMMA RAY SPECTROMETRY.

continue

8. TRAINING FOR INDIVIDUALS WORKING IN OR FREQUENTING RESTRICTED AREA.  
AREA NOT RESTRICTED, ALL FREQUENTING AREA ARE FORENSIC CHEMIST.
9. FACILITIES AND EQUIPMENT.  
FORENSIC LABORATORY DETECTORS.
10. RADIATION SAFETY PROGRAM.  
SIMI-ANNUAL LEAK TESTING OF ALL SOURCE MATERIAL.
11. WASTE MANAGEMENT  
SEALED SOURCES NO WASTE. —
12. LICENSEE FEES  
FEE CATEGORY (U.S. GOVERNMENT AGENCY) EXEMPTED.

### CERTIFICATE OF DISPOSITION OF MATERIALS

(All items MUST be completed, please print)

LICENSEE NAME AND ADDRESS  DEPARTMENT OF THE TREASURY BUREAU ALCOHOL, TOBACCO AND FIREARMS 1401 RESEARCH BLVD. ROCKVILLE, MD 20850	LICENSE NUMBER 19-18331-01 Re: 030-14864
	LICENSE EXPIRATION DATE OCTOBER 31, 1988

THE LICENSEE OR ANY INDIVIDUAL EXECUTING THIS CERTIFICATE ON BEHALF OF THE LICENSEE CERTIFIES THAT: (Check and/or complete the appropriate item(s) below.)

#### A. MATERIALS DATA (Check one and complete, as necessary)

NO MATERIALS HAVE EVER BEEN POSSESSED OR PROCURED BY THE LICENSEE UNDER THIS LICENSE.

ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS NRC LICENSE NUMBER

OR

3. ALL MATERIALS PROCURED AND/OR POSSESSED BY THE LICENSEE UNDER THE LICENSE NUMBER CITED ABOVE HAVE BEEN TRANSFERRED ON

DATE	TO	WHICH HAS LICENSE NUMBER	ISSUED BY THE STATE OF

OR

4. MATERIALS HAVE BEEN DISPOSED OF IN THE FOLLOWING MANNER. (Describe specific disposal procedures—if additional space is needed, use the reverse of this form, or provide attachments)

N/A

#### B. OTHER DATA

1. OUR LICENSE HAS NOT YET EXPIRED; PLEASE TERMINATE IT.

2. WAS A RADIATION SURVEY CONDUCTED TO CONFIRM THE ABSENCE OF LICENSED RADIOACTIVE MATERIALS AND TO DETERMINE WHETHER ANY CONTAMINATION REMAINS ON THE PREMISES COVERED BY THE LICENSE? (Check one)

NO

YES, THE RESULTS (Check one)

ARE ATTACHED, OR N/A

WERE FORWARDED TO NRC ON (Date)

3. THE PERSON TO BE CONTACTED REGARDING THE INFORMATION PROVIDED ON THIS FORM

NAME WILLIAM D. KINARD	TELEPHONE NUMBER (301) 294-0420
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4. MAIL ALL FUTURE CORRESPONDENCE REGARDING THIS LICENSE TO

WILLIAM D. KINARD BUR. ALCOHOL, TOBACCO AND FIREARMS 1401 RESEARCH BLVD  
ROCKVILLE, MD 20850

RETURN TO:  DIRECTOR, DIVISION OF FUEL CYCLE AND MATERIAL SAFETY OFFICE OF NUCLEAR MATERIAL SAFETY AND SAFEGUARDS U.S. NUCLEAR REGULATORY COMMISSION WASHINGTON, DC 20555	CERTIFYING OFFICIAL  SIGNATURE <i>William D. Kinard</i> DATE 9-25-88 PRINTED NAME AND TITLE WILLIAM D. KINARD CHEMIST
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MATERIALS LICENSE

Amendment No. 05

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 I, Parts 30, 31, 32, 33, 34, 35, 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 byproduct, 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). 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. Department of the Treasury  
Bureau of Alcohol, Tobacco and Firearms
- 2. 1401 Research Boulevard  
Rockville, Maryland 20850

In accordance with letter dated April 29, 1987,  
3. License number 19-18331-01 is amended in its entirety to read as follows:

4. Expiration date October 31, 1988

5. Docket or Reference No. 030-14864

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. Nickel 63	A. Foils contained in Elscint Explosives Model EXD-2 detector cells	A. Not to exceed 15 millicuries per foil
B. Hydrogen 3	B. Foils contained in Hydronautics Vapor Trace Analyzers	B. Not to exceed 15 millicuries per foil
C. Nickel 63	C. Foil contained in Perkin-Elmer Model 330-D119 detector cells	C. Not to exceed 15 millicuries per foil
D. Nickel 63	D. Foil contained in Victoreen Instrument Division Model 4008-4-15 detector cells	D. Not to exceed 15 millicuries per foil
E. Nickel 63	E. Foils contained in Perkin-Elmer Model 009-0282 detector cell	E. Not to exceed 15 millicuries per foil
F. Hydrogen 3	F. Titanium tritide foils contained in Sentex Sensing Technology, Inc. Model 50319 Detector Cell	F. Not to exceed 150 millicuries per foil or 6,000 millicuries total

9. Authorized use

- A. For use in gas chromatographs for sample analysis.
- B. For use in analyzers for tracer studies
- C. through E. For use in gas chromatographs for sample analysis.
- F. For use in explosive detectors, Scanex Jr. #60k-139.

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*3PP*

**MATERIALS LICENSE  
SUPPLEMENTARY SHEET**

License number

19-18331-01

Number of License

Number

030-14864

Amendment No. 05

**CONDITIONS**

10. Licensed material shall be used at 1401 Research Boulevard, Rockville, Maryland. Licensed material listed in Subitem 6.C., 6.D., 6.E. and 6.F. may also be used at the licensee's San Francisco Laboratory Center, Building 233, Naval Station, Treasure Island, California.
11. Licensed material shall be used by, or under the supervision of, William D. Kinard, Philip Wineman, Richard Tontarski, Richard Strobel, Ronald N. Holmes, or Felipe Alfonso, except that licensed material listed in Subitems 6.C., 6.D., 6.E. and 6.F. may also be used by John McOwen, Steve Roberts, Tony Menseler, Samuel Blitterman, or George Peterson.
12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.
13. A(1) Any sealed sources or detector cells specified in Items 7.A., 7.C., 7.D. and 7.E. shall be tested for leakage and/or contamination at intervals not to exceed 6 months. Any source or detector cell received from another person which is not accompanied by a certificate indicating that a test was performed within 6 months before the transfer shall not be put into use until tested.
  - (2) Notwithstanding the periodic leak test required by this condition, any licensed sealed source or detector cell is exempt from such leak tests when the source or detector cell contains 100 microcuries or less of beta and/or gamma emitting material or 10 microcuries or less of alpha emitting material.
- B. Any sealed source or detector cell in storage and not being used need not be tested. When the source or detector cell is removed from storage for use or transfer to another person, it shall be tested before use or transfer.
- C. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, the source or detector cell shall be removed from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. A report shall be filed within 5 days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety and Safeguards Branch, 631 Park Avenue, King of Prussia, Pennsylvania 19406. The report shall specify the source involved, the test results, and corrective action taken. Records of leak test results shall be kept in units of microcuries and shall be maintained for inspection by the Commission. Records may be disposed of following Commission inspection.
- D. Tests for leakage and/or contamination shall be performed by the licensee or by other persons specifically licensed by the Commission or an Agreement State to perform such services.

(Continued)

CONDITIONS

14. Installation, initial radiation survey, relocation, removal from service, maintenance, and repair of devices containing sealed sources and installation replacement and disposal of sealed sources shall be performed only by persons specifically licensed by the Commission or an Agreement State to perform such services.
15. The licensee shall conduct a physical inventory every 6 months to account for all sources and/or devices received and possessed under the license. Records of inventories shall be maintained for 2 years from the date of each inventory.
16. In lieu of using the conventional radiation caution colors (magenta or purple on yellow background) as provided in Section 20.203(a)(1), of 10 CFR Part 20, the licensee is hereby authorized to label detector cells and cell baths, containing licensed material and used in gas chromatography devices, with conspicuously etched or stamped radiation caution symbols without a color requirement.
17. Detector cells containing titanium tritide foils shall only be used in conjunction with a properly operating temperature control mechanism which prevents foil temperatures from exceeding 225 degrees Centigrade.
18. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the licensee's application and correspondence are more restrictive than the regulations.
  - A. Application dated October 31, 1978
  - B. Letter dated March 20, 1981
  - C. Letter dated August 19, 1981
  - D. Letter dated May 24, 1983
  - E. Letter dated July 11, 1983
  - F. Letter dated August 3, 1983
  - G. Letter dated October 12, 1983
  - H. Letter dated January 30, 1984
  - I. Letter dated April 29, 1987

109655

30 SEP 1988

OFFICIAL RECORD COPY ML 10

For the U.S. Nuclear Regulatory Commission

Date JUN 23 1987

By *John E. Allen*

Nuclear Materials Safety and  
Safeguards Branch, Region I  
King of Prussia, Pennsylvania 19406

BETWEEN:

LICENSE FEE MANAGEMENT BRANCH, ARM  
AND  
REGIONAL LICENSING SECTIONS

(FOR LFMS USE)  
INFORMATION FROM LTS

PROGRAM CODE: 03123  
STATUS CODE: 2  
FEE CATEGORY: EX 3P  
EXP. DATE: 19881031  
FEE COMMENTS:

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED

APPLICANT/LICENSEE: TREASURY, DEPARTMENT OF THE  
RECEIVED DATE: 880930  
DOCKET NO: 3014864  
CONTROL NO.: 109655  
LICENSE NO.: 19-18331-01  
ACTION TYPE: RENEWAL

2. FEE ATTACHED

AMOUNT: *RD* -----  
CHECK NO.: *70* -----

3. COMMENTS

SIGNED *R. F. Brown* -----  
DATE *88-10-06* -----

B. LICENSE FEE MANAGEMENT BRANCH (CHECK WHEN MILESTONE 03 IS ENTERED / \_\_ /)

1. FEE CATEGORY AND AMOUNT: -----

2. CORRECT FEE PAID. APPLICATION MAY BE PROCESSED FOR:

AMENDMENT -----  
RENEWAL -----  
LICENSE -----

3. OTHER -----  
-----

SIGNED -----  
DATE -----