

# 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.

## FEDERAL AGENCIES FILE APPLICATIONS WITH:

U.S. NUCLEAR REGULATORY COMMISSION  
DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS  
WASHINGTON, DC 20565

## ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARE LOCATED IN:

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

U.S. NUCLEAR REGULATORY COMMISSION, REGION I  
NUCLEAR MATERIAL SECTION B  
631 PARK AVENUE  
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  
MATERIAL RADIATION PROTECTION SECTION  
101 MARIETTA STREET, SUITE 2900  
ATLANTA, GA 30323

## 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  
MATERIAL RADIATION PROTECTION SECTION  
1450 MARIA LANE, SUITE 210  
WALNUT CREEK, CA 94596

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 34-18958-01

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

Hamilton County Coroner's Laboratory  
3159 Eden Avenue  
Cincinnati, Ohio 45219

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

3159 Eden Avenue  
Cincinnati, Ohio 45219

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

John A. Walker, Ph.D., Director of Laboratory

## TELEPHONE NUMBER

513-221-4528

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 AND EXPERIENCE.

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

## 9. FACILITIES AND EQUIPMENT.

## 10. RADIATION SAFETY PROGRAM.

## 11. WASTE MATERIAL

8506190008 850529  
REG3 LIC30  
34-18958-01 PDR

## 12. LICENSEE FEES (See 10 CFR 170 and Section 170.31)

FEE CATEGORY EXEMPT AMOUNT ENCLOSURE \$ -0-

## 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

Frank P. Cleveland, M.D.

Hamilton County Coroner

5/15/85

## 14. VOLUNTARY ECONOMIC DATA

### a. ANNUAL RECEIPTS

|   |           |
|---|-----------|
| <input checked="" type="checkbox"/> <\$250K | \$1M-3.5M |
| <input type="checkbox"/> \$250K-500K        | \$3.5M-7M |
| <input type="checkbox"/> \$500K-750K        | \$7M-10M  |
| <input type="checkbox"/> \$750K-1M          | >\$10M    |

### b. NUMBER OF EMPLOYEES (Total for entire facility excluding outside contractors)

46

### c. NUMBER OF BEDS

N/A

d. WOULD YOU BE WILLING TO FURNISH COST INFORMATION (Dollar and/or staff hours) ON THE ECONOMIC IMPACT OF CURRENT NRC REGULATIONS OR ANY FUTURE PROPOSED NRC REGULATIONS THAT MAY AFFECT YOU? (NRC regulations permit it to protect confidential commercial or financial—proprietary—information furnished to the agency in confidence)

☒ YES RECEIVED ☐ NO

## FOR NRC USE ONLY

### TYPE OF FEE

### FEE LOG

### FEE CATEGORY

### COMMENTS

MAY 20 1985

### APPROVED BY

### AMOUNT RECEIVED

### CHECK NUMBER

FEE EXEMPT

REGION III

### DATE

5/29/85

## PRIVACY ACT STATEMENT

Pursuant to 5 U.S.C. 552a(e)(3), enacted into law by section 3 of the Privacy Act of 1974 (Public Law 93-579), the following statement is furnished to individuals who supply information to the Nuclear Regulatory Commission on NRC Form 313. This information is maintained in a system of records designated as NRC-3 and described at 40 Federal Register 45334 (October 1, 1975).

1. **AUTHORITY:** Sections 81 and 161(b) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2111 and 2201(b)).
2. **PRINCIPAL PURPOSE(S):** The information is evaluated by the NRC staff pursuant to the criteria set forth in 10 CFR Parts 30, 32, 33, 34, 35 and 40 to determine whether the application meets the requirements of the Atomic Energy Act of 1954, as amended, and the Commission's regulations, for the issuance of a radioactive material license or amendment thereof.
3. **ROUTINE USES:** The information may be (a) provided to State health departments for their information and use; and (b) provided to Federal, State, and local health officials and other persons in the event of incident or exposure, for their information, investigation, and protection of the public health and safety. The information may also be disclosed to appropriate Federal, State, and local agencies in the event that the information indicates a violation or potential violation of law and in the course of an administrative or judicial proceeding. In addition, this information may be transferred to an appropriate Federal, State, or local agency to the extent relevant and necessary for an NRC decision or to an appropriate Federal agency to the extent relevant and necessary for that agency's decision about you.
4. **WHETHER DISCLOSURE IS MANDATORY OR VOLUNTARY AND EFFECT ON INDIVIDUAL OF NOT PROVIDING INFORMATION:** Disclosure of the requested information is voluntary. If the requested information is not furnished, however, the application for radioactive material license, or amendment thereof, will not be processed. A request that information be held from public inspection must be in accordance with the provisions of 10 CFR 2.790. Withholding from public inspection shall not affect the right, if any, of persons properly and directly concerned need to inspect the document.
5. **SYSTEM MANAGER(S) AND ADDRESS:** U.S. Nuclear Regulatory Commission  
Director, Division of Fuel Cycle and Material Safety  
Office of Nuclear Material Safety and Safeguards  
Washington, D.C. 20555

Hamilton County Coroner's Laboratory  
Cincinnati, Ohio 45219

ADDENDUM TO APPLICATION FOR MATERIAL LICENSE

5. Radioactive Material

- a. Element and mass number: Nickel 63
- b. Chemical and/or physical form: Deposited on gold or platinum foil, sealed in detector cell, Perkin-Elmer part No. 330-0119
- c. Maximum amount which will be possessed at any one time: 15 millicuries

6. Purpose(s) for which licensed material will be used:

Ni-63 foil is the electron source for the electron capture detector in the gas chromatograph

7. Individual(s) responsible for radiation safety program and their training and experience:

Russell Tye, Toxicologist. No formal training has been received. He has received substantial informal instruction by qualified faculty members of the Kettering Laboratory of Environmental Health, University of Cincinnati, Cincinnati, Ohio.

As a member of the faculty of the Kettering Laboratory of Environmental Health, University of Cincinnati, the major part of his duties for several years was to perform and supervise the performance of various experiments on laboratory animals, using radiotracers for analytical purposes. Tracers used include H-3, C-14 and S-35. He was responsible for the procurement, safe usage and proper disposal of the radioactives involved

These articles are cited as evidence of some of the work which he performed:

1. Tye, R., Engel, J.D. and Rapien, I.: Disposition of Butylated Hydroxytoluene (BHT) in the Rat. Food and Cosmetics Toxicology, 3:547-551, 1965.
2. Tye, R. and Engel, J.D.: Liquid Scintillation Counting of Carbon-14 in Aqueous Digests of Whole Tissue. Analytical Chemistry, 37:1225-1227, 1965.
3. Tye, R. and Engel, J.D.: The Distribution and Excretion of Dicamba by Rats as Determined by Radiotracer Technique, Following Administration to Rats. J. Agricultural and Food Chemistry, 15:837, 1967.

8. Training for individuals in or frequenting restricted areas

N/A The gas chromatograph, of which the electron detector containing the licensed material is a part, is not located in a restricted area.

Hamilton County Coroner's Laboratory  
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ADDENDUM TO APPLICATION FOR MATERIAL LICENSE

-2-

9. Facilities and equipment:

The Hamilton County Coroner's Laboratory, approximately 30,000 sq. ft., occupies the third floor of the Coroner's facility and is a forensic laboratory containing general analytical instrumentation, e.g., gas chromatograph, mass spectrometer, ultraviolet spectrometer, infrared spectrometer, atomic absorption spectrometer, microscopes, electron microscope and other scientific equipment.

10. Radiation Safety Program

1. The Ni-63 foil will not be used for any purpose other than as an electron source in a gas chromatograph electron capture detector, as intended by the manufacturer, Perkin-Elmer.
2. Ni-63 electron source is installed by the manufacturer of the gas chromatograph and will not be removed or tampered with except by a qualified representative of the manufacturer.
3. Wipe tests will be made at six month intervals using kits supplied by Perkin-Elmer (P-E Part No. 009-1667) in accordance with their instructions and forwarded to their designated laboratory, also in accordance with Perkin-Elmer instructions.

11. Waste management:

N/A No radioactive waste is generated.