ID-871 0 CFR 30, 32, 33, 34, 3 and 40 APPLICATION FOR	U.S. NUCLEAH REGULATORY COMMISS.D APPROVED BY ON 3156-0120 MATERIAL LICENSE Expires: 6-30-90
INSTRUCTIONS: SEE THE APPROPRIATE LICENSE APPLICATION GUIDE FOR DE	ETAILED INSTRUCTIONS FOR COMPLETING APPLICATION. SEND TWO COPIES LOW.
APPLICATIONS FOR DISTRIBUTION OF EXEMPT PRODUCTS FILE APPLICATIONS WITH	IF YOU ARE LOCATED IN:
U.S. NUCLEAR REGULATORY COMMISSION DIVISION OF FUEL CYCLE AND MATERIAL SAFETY, NMSS	ILLINOIS, INDIANA, IOWA, MICHIGAN, MINNESOTA, MISSOURI, OHIO, OR WISCONSIN, SEND APPLICATIONS TO:
WASHINGTON, DC 20666 ALL OTHER PERSONS FILE APPLICATIONS AS FOLLOWS, IF YOU ARL	U.S. NUCLEAR REGULATORY COMMISSION, REGION III MATERIALS LICENSING SECTION
LOCATED IN: CONNECTICUT, DELAWARE, DISTRICT OF COLUMBIA, MAINE, MARYLAND, MASSACHUEFTTS, NEW HAMPSHIRE, NEW JERSEY, NEW YORK, PENNSYLVANIA,	GLEN ELLYN, IL 60137 A RKANSAS COLORADO IDAHO, KANSAS, LOUISIANA, MONTANA, NEBRASKA,
RHODE ISLAND, OR VERMONT, SEND APPLICATIONS TO: U.S. NUCLEAR REGULATORY COMMISSION, REGION I	NEW MEXICO, NORTH DAKOTA, OKLAHOMA, SOUTH DAKOTA, TEXAS, UTAH, OR WYOMING, SEND APPLICATIONS TO:
NUCLEAR MATERIALS SAFETY SECTION 8 475 ALLENDALE ROAD KING OF PRUSSIA, PA 19406	U.S. NUCLEAR REGULATORY COMMISSION, REGION IV MATERIAL RADIATION PROTECTION SECTION 611 RYAN PLAZA DRIVE, SUITE 1000
ALABAMA, FLORIDA, GEORGIA, KENTUCKY, MISSISSIPPI, NORTH CAROLINA, PUERTO RICO, SOUTH CAROLINA, TENNESSEE, VIRGINIA, VIRGIN ISLANDS, OR WEST VIRGINIA, BEND APPLICATIONS TO:	ARLINGTON, TX 76011 ALASKA, ARIZONA, CALIFORNIA, MAWAII, NEVADA, OREGON, WASHINGTON, AND U.S. TERRITORIES AND POSSESSIONS IN THE PACIFIC, SEND APPLICATIONS
U.S. NUCLEAR REGULATORY COMMISSION, REGION II NUCEAR MATERIALS GAFETY SECTION 101 MARIETTA STREET, SUITE 2900 ATLANTA, GA 30323	U.S. NUCLEAR REGULATORY COMMISSION, REGION V NUCLEAR MATERIALS SAFETY SECTION 1460 MARIA LANE, SUITE 210 WALNUT CREEK, CA 94596
PERSONS LOCATED IN AGREEMENT STATES SEND APPLICATIONS TO THE U.S. NUCLEAR	I REGULATORY COMMISSION ONLY IF THEY WISH TO POSSESS AND USE LICENSED MATERI
1. THIS IS AN APPLICATION FOR (Check appropriate item)	2. NAME AND MAILING ADDRESS OF APPLICANT (Include Zip Code)
A. NEW LICENSE	U.S. Dept. Health & Human Service
B. AMENDMENT TO LICENSE NUMBER	Food & Drug Admin./Div. of Drug Analysis
C. RENEWAL OF LICENSE NUMBER 24-09755-02	1114 Market St., Rm 1002 St. Louis. MO 63101
3 ADDRESSIES) WHERE LICENSED MATERIAL WILL BE USED OR POSSESSED.	
4. NAME OF PERSON TO BE CONTACTED ABOUT THIS APPLICATION	TELEPHONE NUMBER
Lawrence Jones, Ph.D.	314-539-2135
SUBMIT ITEMS 5 THROUGH 11 ON 8% x 11" PAPER. THE TYPE AND SCOPE OF INFORMATI	ON TO BE PHOVIDED IS DESCRIBED IN THE LICENSE APPLICATION GODE.
B. RADIOACTIVE MATERIAL a. Element and mass number, b. cheme.al 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. INDIVIDUALISI 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 PROGEAM.
11. WASTE MANAGEMENT.	12. LICENSEE FEES (See TO CFR 170 and Section 170.31) AMOUNT FEE CATEGORY EXEMPT ENCLOSED \$
13. CERTIFICATION. (Must be completed by epplicant) THE APPLICANT UNDERSTANDS THE BINDING UPON THE APPLICANT. THE APPLICANT AND ANY OFFICIAL EXECUTING THIS CERTIFICATION ON BEHALF (PREPARED IN CONFORMITY WITH TITLE 10, CODE OF FEDERAL REGULATIONS, PAR 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. 74% MAKES IT A C TO ANY DEPARTMENT OR A GENCY OF THE UNITED STATES AS TO ANY MATTER WITH.	AT ALL STATEMENTS AND REPRESENTATIONS MADE IN THIS APPLICATION ARE DF THE APPLICANT, NAMED IN ITEM 2, CERTIFY THAT THIS APPLICATION IS TS 3), 31, 33, 34, 35, AND 40 AND THAT ALL INFORMATION CONTAINED HEREIN, CRIMINAL OFFENSE TO MAKE A WILLFULLY FALSE STATEMENT OR # EPRESENTATION THIN ITS JURISDICTION.
SIGNATURE -CERTIFYING OFFICER TYPED/PRINTED NAME	TITLE DATE
Fuvrence fore Lawrence Jones, Ph.	.D. Deputy Director, DDA 7/26/88
8902280079 890203 REG3 LIC30 24-09755-02 PNU	RECEIVE
FOR NRG	LOSE ONLY
	EFF FXFMP1

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- 5. <u>Element and mass number</u>: The Division of Drug Analysis (DDA) has one Ni⁶³ plated-radioactive source in a sealed Hewlett-Packard electron-capture detector model number 18803-60520520. The detector is used exclusively with a gas chromatograph manufactured by Hewlett-Packard. The maximum amount does not exceed 15 millicurie per source.
- 6. <u>Purpose for use:</u> The radioactive source is sealed inside the detector is used exclusive for laboratory analytical operations in support of the Food & Drug Administration programs.
- 7. <u>Individuals responsible for radiation safety program</u>: Lawrence Jones is responsible for the radiation safety program. His training and experience are as follows:

(1) He is the Deputy Director of the facility where the materials are used and has line authority over the supervisors and chemists who might use the detector.

(2) He has been the principle designee on the license since 1967.(3) He holds a degree in chemistry. He received a one week training course in gas chromatography within which he received training on how to use radioactive-source detectors.

(4) He completed a one week training course in FDA-Civil Defense Training on radioactive detection and decontamination using Geiger-Muller and Scintillation Counters.

(5) He has received training in radiochemistry experiments using Cobalt⁶⁰ and Cs¹³⁷ at the FDA Institute, Georgetown University.
(6) He completed the US Army-CBR Training, Infantry's Officer's Basic Course.

(7) He completed a one-week program conducted by EPA for Laboratory Safety Officers.

(8) DDA has collateral Safety Officer who was trained by EPA. The Safety Officer and the Safety Committee make periodic inspection of the laboratory to ensure that safety program are being observed.

- 8. <u>Training Provided to Other Users</u>: All gas chromatographs and the instrument specifically equipped with the radioactive source detector are operated by personnel who are experienced chemists and technicians and have been trained in the use of the equipment, and are knowledgeable of radioactive substance hazards. Additionally, several members of the staff are experts in the area of gas chromatography and methods requiring radioactive-source detectors. These experts are also available to provide immediate assistance and advice to less experienced staff.
- 9. <u>Facilities and Equipment:</u> The laboratories are designed to meet guidelines defined by the FDA and OSHA. The laboratory facilities are maintained by GSA. They are provided with HVAC, fume hoods, and drains. The detector, when in use, is in the gas chromatograph that was designed by the manufacturer, Hewlett-Packard, specifically for the detector. The detector is enclosed in a housing and is clearly marked with a radioactive material warning label. All gas chromatographs used by this laboratory are located within the same room. Access to this room is controlled and this laboratory is used only for this purpose.

A floor diagram showing the physical location is attached.

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10. Radiation Safety Program. The radioactive-source detector is not used regularly. The detector is normally stored in a locked safe. The test for leakage is performed by the "wipe-test." This is conducted every sixth-month, in January and July, and the wipes are sent to the FDA Winchester Engineering and Analytical Center, Winchester, MA for measurements. The wipe tests are conducted even if the detector has not been used during the period. The results are sent back to DDA to the attention of the licensee.

If the detector is to be used, the individual who will use it must read the manual, review a videotape provided by the manufacturer, and then request the detector to be removed from the safe.

11. <u>Waste Management</u>: DDA is aware that if the detector is to be disposed, the transfer can only be made to a licensee specifically authorized to possess radioactive material.

